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Transmitted via Overnight Courier

August 30, 2007

Mr. Richard Hull
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 Report for Spring 2007

Dear Mr. Hull:

Enclosed is a report entitled *Groundwater Management Area 3 Groundwater Quality and NAPL Monitoring Report for Spring 2007* (Spring 2007 GMA 3 Report). This report summarizes activities performed at Groundwater Management Area (GMA) 3 (also known as the Plant Site 2 GMA) between January and June 2007, including the results of the spring 2007 round of sampling and analysis of groundwater for GMA 3 and the results of GE's non-aqueous phase liquid (NAPL) monitoring and recovery program in this area. In addition, this report describes recently proposed and/or approved modifications to the NAPL monitoring program and a discussion of upcoming interim groundwater quality monitoring activities to be conducted at GMA 3 in 2007, which will continue until such time as all required soil-related Removal Actions are completed within this GMA and a comprehensive long-term monitoring program may be developed.

Please contact me if you have any questions or comments.

Sincerely,

Richard W. Gates /mab for

Richard W. Gates
Remediation Project Manager

Enclosure
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General Electric Company
Pittsfield, Massachusetts

Groundwater Management Area 3 Groundwater Quality and NAPL Interim Monitoring Report for Spring 2007

August 2007

ARCADIS BBL

Groundwater Management Area 3 – Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007

General Electric Company
Pittsfield, Massachusetts

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1. Introduction

1.1 General

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

On April 24, 2001, GE submitted a *Baseline Monitoring Program Proposal for Plant Site 2 Groundwater Management Area* (GMA 3 Baseline Monitoring Proposal). The GMA 3 Baseline Monitoring Proposal summarized the hydrogeologic information available at that time 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. EPA provided conditional approval of the GMA 3 Baseline Monitoring Proposal by letter dated November 21, 2001. 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 the selected monitoring locations and, subsequently, during implementation of the baseline monitoring program.

As part of the baseline program, GE was 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 one 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 in February 2004, and, beginning with the spring 2004 sampling event, GE commenced the full semi-annual baseline groundwater quality sampling program at GMA 3. The baseline monitoring program consisted of four semi-annual groundwater quality sampling events (with annual sampling conducted at select wells), quarterly groundwater elevation monitoring, and NAPL monitoring and recovery activities, followed by preparation and submittal of semi-annual reports summarizing the groundwater/NAPL monitoring results, comparing the groundwater results with applicable Performance Standards, and, as appropriate, proposing modifications to the monitoring program. The full monitoring program included sampling and analysis of PCBs, 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), and/or certain constituents (i.e., natural attenuation parameters) to assess intrinsic and natural processes that may be influencing VOC concentrations in groundwater. The fourth baseline monitoring report for GMA 3, titled *Groundwater Management Area 3 Baseline Groundwater Quality and NAPL Monitoring Interim Report for Fall 2005* (Fall 2005 GMA 3 Report), was submitted to EPA on February 26, 2006.

Section 6.1.3 of Attachment H to the SOW provides that if the two-year baseline period ends prior to the completion of soil-related response actions at all the RAAs within a GMA, GE may make a proposal to EPA to modify and/or extend the Baseline Monitoring Program based on the results of the initial assessment and the estimated timing of future response actions at the RAAs in the GMA. The approved GMA 3 Baseline Monitoring Proposal also allows GE to propose a modification and/or extension of the baseline monitoring program based on the results of the initial assessment and the estimated timing of future response actions.

Therefore, as the soil-related Removal Actions at the Unkamet Brook Area RAA within GMA 3 were not yet complete, the Fall 2005 GMA 3 Groundwater Quality Report contained a proposal to modify and extend baseline groundwater quality monitoring activities at GMA 3 (under a program referred to as the interim monitoring program) until such time as the soil-related Removal Actions at the Unkamet Brook Area RAA are completed and the specific components of a long-term groundwater quality monitoring program are determined.

EPA approved these modifications prior to the spring 2006 sampling event, which was conducted in April 2006. As part of the spring 2006 event, GE re-evaluated the previously-collected data in accordance with recent revisions to the Massachusetts Contingency Plan (MCP) that became effective on April 3, 2006. As a result of this re-evaluation, GE recommended adding three locations to the interim monitoring program. The results of the spring 2006 were presented in the Groundwater Management Area 3 Groundwater Quality and NAPL Monitoring Interim Report for Spring 2006, which was conditionally approved by EPA's letter dated December 7, 2006, which required adding one further location to the interim monitoring program. As the 2006 annual interim groundwater quality sampling event was conducted in the spring, the 2007 annual interim groundwater quality sampling event will be conducted in the fall.

The *Groundwater Management Area 3 NAPL Monitoring Report for Fall 2006* (Fall 2006 GMA 3 Monitoring Report) presented the results of the semi-annual groundwater elevation and NAPL monitoring activities performed at this GMA during October 2006, as well as other groundwater elevation and NAPL monitoring/recovery activities performed between July and December 2006. The Fall 2006 GMA 3 Monitoring Report also proposed the installation of a new monitoring well and the performance of LNAPL recovery testing at select wells to evaluate the need to expand the existing LNAPL recovery system. The Fall 2006 GMA 3 Monitoring Report was conditionally approved by EPA by letter dated April 19, 2007.

The Fall 2006 GMA 3 Monitoring Report also summarized the results of the soil gas migration assessment, which had been completed in the fall 2006 and previously submitted to EPA in a separate report titled *Soil Gas Migration Assessment Report for Groundwater Management Area 3* (Migration Assessment Report) on October 20, 2006. The Migration Assessment Report was conditionally approved by EPA by letter dated February 17, 2006. In that letter, EPA concurred with GE's conclusion that the constituents detected were all below the OSHA guidance values for workplace exposure, but did not concur with GE's conclusion that there is no clear link between soil gas, groundwater, and NAPL plumes located below the building slabs and observed indoor air concentrations. In response to Condition Nos. 2 and 3 of the February 17, 2006 letter stipulated, GE conducted an inspection of Buildings 51 and 59 to identify potential pathways for soil gas migration to indoor air and developed and proposed a plan for EPA approval for conducting periodic subsurface soil gas and indoor air monitoring, below and within Buildings 51 and 59. The results of the inspection and the proposed monitoring plan were presented in GE's letter to EPA titled *Soil Gas Migration Assessment Report and Sampling Plan* (Supplemental Assessment Report and Sampling Plan) to EPA on March 16, 2007. The Supplemental Assessment Report and Sampling Plan was conditionally approved by EPA in letter dated June 25, 2007. To address EPA's approval conditions contained in that letter, GE revisited

each of the possible migration pathways identified in the Supplemental Assessment Report and Sampling Plan to: (1) determine whether any of those possible migration pathways constituted unsealed penetrations to the underlying soil, and (2) seal those possible migration pathways that did constitute unsealed penetrations to the underlying soil and could readily be addressed. An *Addendum to the Soil Gas Migration Assessment Report and Sampling Plan*, which summarized those activities and proposed additional activities regarding penetrations that extend or may extend to the underlying soil, but that GE was not able to address or seal during the available timeframe, was submitted to EPA on July 24, 2007.

As part of the overall interim monitoring program for GMA 3, GE is required to submit reports after each groundwater sampling event to summarize the groundwater/NAPL monitoring results and related activities and, as appropriate, propose modifications to the monitoring program. This *Groundwater Management Area 3 Groundwater Quality and NAPL Monitoring Report for Spring 2007* (Spring 2007 GMA 3 Report) presents the results of groundwater quality and NAPL monitoring activities performed at this GMA during May 2007, as well as other routine groundwater elevation and NAPL monitoring/recovery activities performed between January and June 2007 (henceforth referred to as Spring 2007). Given that the annual interim groundwater quality sampling for 2007 will be performed in fall 2007, the groundwater quality sampling performed in spring 2007 consisted of the natural attenuation parameter sampling.

The GMA 3 groundwater elevation/NAPL monitoring program is summarized in Table 1. This report also describes the upcoming groundwater quality and NAPL monitoring activities for GMA 3 and presents the schedule for their performance.

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 (as shown on Figures 1 and 2). This area includes the eastern portion of GE's Pittsfield facility, which is generally bounded by Dalton Avenue to the north, Merrill Road to the south, Plastics Avenue to the west, and railroad tracks to the east. GMA 3 also contains commercial/recreational properties located between Merrill Road and the Housatonic River to the southeast of the facility. Unkamet Brook extends from northwest to southeast through the interior of this GMA, although a portion of the brook in the center of the area flows through underground culverts. The GE-owned portion of this GMA located west of Unkamet Brook is mostly paved and covered with large buildings. The GE-owned

portion to the east of Unkamet Brook, as well as much of the land between Merrill Road and the Housatonic River, is undeveloped except for the area associated with Building OP-3 and the commercial area along Merrill Road.

Several well pairs or closely-spaced shallow and deep well clusters have been installed within 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-R, 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. In addition, there are individual wells installed at the RAA which were completed based on proposals by GE or EPA conditional approval letters. The specifications of the wells monitored at GMA 3 in Spring 2007 are listed in Table 3. Prior monitoring data from the well clusters has indicated that the vertical component of the hydraulic gradient is variable at GMA 3. 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.

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. Figure 5 illustrates groundwater elevations and flow direction using data collected during the spring 2007 monitoring round. 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.

The presence of NAPL in this area 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 observed in the vicinity of Building 51, which NAPL may have originated from the 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 observed east of Building 51 has been analyzed and determined to be composed of multiple constituents, including PCBs, polynuclear aromatic hydrocarbons (PAHs), ethylbenzene, xylenes, 1,2,4-trichlorobenzene, and 1,4-dichlorobenzene, among other constituents.

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. Prior to spring 2007, dense non-aqueous phase liquid (DNAPL) had not been encountered within any of the monitoring wells within GMA 3. However, DNAPL was observed on one occasion in a single monitoring well located to the south of the former interior landfill. Locations where NAPL has been previously documented are shown on Figure 6. The extent of NAPL observed in spring 2007 is illustrated on Figure 7. A discussion of the current extent of NAPL and the results of NAPL monitoring and recovery activities is provided in Section 3.3.

1.2.2 Interim Monitoring Program

As discussed in Section 1.1, the CD and the SOW provide the framework 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 until spring 2004. The fall 2005 sampling event constituted the fourth baseline sampling event at the majority of the wells in GMA 3. The baseline sampling program was concluded with the spring 2006 sampling event. Beginning in spring 2006, as approved by EPA, an interim groundwater quality monitoring program was initiated, consisting of annual sampling (in the

spring season) for the analysis of VOCs and natural attenuation parameters at 22 monitoring wells, plus annual sampling (alternating between the spring and fall seasons) for the analysis of VOCs at one additional well (Well 6B-R). In addition, as noted above, GE's re-evaluation of the data performed following the spring 2006 sampling event and EPA conditions in its December 7, 2006 conditional approval letter led to the addition of four locations to the interim monitoring program. Specifically, the interim program now also includes well 51-14 for VOC analysis, due to the decrease in the GW-2 standard for carbon tetrachloride, and wells 82B-R, 114A, and 114B-R for PCB analysis. The components of the interim groundwater quality monitoring program at GMA 3 as approved by EPA are summarized in Table 1. The next round of alternating spring/fall sampling will be conducted in fall 2007. Therefore, the groundwater quality sampling conducted in spring 2007 consisted of the natural attenuation sampling.

1.2.3 NAPL Monitoring Program

In addition to the wells that were sampled during the baseline monitoring period (each of which continues to be monitored for groundwater elevations on a semi-annual basis during the interim monitoring period), 27 monitoring wells are routinely monitored for groundwater elevation and the presence of NAPL on an established weekly, monthly, or quarterly schedule. The groundwater elevation/NAPL monitoring schedule for GMA 3 is summarized in Table 2. The well locations are shown on Figure 2.

1.2.4 Format of Document

The remainder of this report is presented in four sections. Section 2 describes the groundwater- and NAPL-related activities performed at GMA 3 in Spring 2007. Section 3 presents the analytical results obtained during the spring 2007 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 spring 2007, 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 results. Section 4 proposes certain modifications to the current NAPL monitoring programs. Finally, Section 5 addresses the schedule for future field and reporting activities related to groundwater quality and NAPL presence at GMA 3, including upcoming modifications to the groundwater and NAPL monitoring programs.

2. Field and Analytical Procedures

2.1 General

In addition to the spring 2007 interim monitoring event, activities conducted at GMA 3 during the spring 2007 included routine measurement of groundwater/NAPL levels, removal of LNAPL, additional assessment activities related to the soil gas investigation performed within and in the vicinity of Buildings 51 and 59, and LNAPL recovery testing at specific wells. Monitoring and recovery of LNAPL (if present) were routinely performed at the monitoring wells that are included in the NAPL monitoring program. All wells that were gauged for groundwater elevations and/or monitored for LNAPL during spring 2007 are identified in Table 2, and a site plan showing the groundwater monitoring/sampling locations described in this report is presented on Figure 2. This section discusses the field procedures used to conduct those field activities and the methods used to analyze the groundwater samples. All activities were performed in general accordance with GE's approved Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP).

2.2 Well Installation and Development

On April 3, 2007, GE installed one new monitoring well (GMA3-16) at the location of Unkamet Brook pre-design investigation soil boring RAA10-N-Y-18, as required by EPA's conditional approval letter dated December 7, 2006. The location of this new well is shown on Figure 2. Table 3 shows the survey data and well construction detail for this new well, along with the other existing wells utilized in the GMA 3 monitoring program. The monitoring well log for well GMA3-16 is presented in Appendix A.

Following installation, the new monitoring well was developed to remove fine materials (e.g., fine sand, silt, clay) that may have accumulated in the filter pack and to ensure that the well screen was transmitting groundwater representative of the surrounding formation. Development was performed by surging the saturated portion of the well screen with a surge block and removing groundwater with a submersible pump and a positive displacement pump. Development of the well was continued until temperature/ pH/conductivity field parameters stabilized and the purged groundwater was relatively free of sediment (i.e., less than 50 NTU).

2.3 Groundwater Elevation Monitoring

The spring 2007 semi-annual groundwater elevation monitoring round was performed between April 24 and 27, 2007. This activity involved the collection of groundwater level data at the locations listed in Table 3. Groundwater levels and NAPL thicknesses (where

NAPL is present) were measured in accordance with the procedures specified in GE's approved FSP/QAPP. The groundwater elevation data presented in Table 4 from wells screened across or near the water table were used to prepare a groundwater elevation contour map for spring 2007 (Figure 5). A summary of all groundwater elevation data collected in spring 2007 is provided in Table 4 and the monitoring data are included in Appendix B.

Groundwater elevations were, on average, approximately 0.86 feet higher than the elevations measured during the respective prior seasonal monitoring event in spring 2006 at water table monitoring 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.

As discussed in the Fall 2006 GMA 3 Monitoring Report, the fall 2006 groundwater elevation data from well GMA3-6 was found to be anomalous and was not utilized in the preparation of the groundwater elevation contour maps for that report. The depth to water recorded at this well in 2006 was approximately six feet lower than measured during previous years. This well was resurveyed on April 16, 2007 and it was discovered that the measuring point elevation stored in the project database had not been updated following modifications made to the well during construction activities in this area. The corrected measuring point elevation was utilized to calculate the spring 2007 groundwater elevation at well GMA3-6 and the data obtained was used in the development of the spring 2007 groundwater elevation contours. The groundwater elevation calculated using the corrected datum was consistent with historical data at this location.

2.4 LNAPL Monitoring and Recovery

This section describes the results of the LNAPL monitoring and recovery activities performed by GE within GMA 3 from January through June 2007, including the April 2007 semi-annual monitoring event and other routine and non-routine monitoring/recovery activities 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 three 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. These 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 NAPL monitoring was conducted at the monitoring wells listed in Table 2 on a semi-annual, quarterly, monthly, and/or weekly basis. Table 5 summarizes the spring 2007 NAPL removal data on a well-by-well basis, and Table B-1 (Appendix B) presents a summary of all of the spring 2007 NAPL measurements and removal quantities (when performed) for each well at GMA 3. Approximately 36.9 gallons of LNAPL were recovered between January and June 2007 at GMA 3. Approximately 86% of this total (31.8 gallons) was removed by the automated skimmer system at well 51-21, and the remainder was manually recovered during routine monitoring events. Since 1997, approximately 1,269 gallons of LNAPL have been removed from GMA 3 as part of GE's NAPL monitoring and recovery program. (This value was incorrectly reported in section 3.4 of the Fall 2006 NAPL report as 1,190, the correct value was reported as 1,232 in section 2.3 of the same report.) During the spring 2007 monitoring event DNAPL was observed for the first time at monitoring well GMA3-16. Approximately 0.01 gallons of DNAPL was removed from this well during that monitoring round. No DNAPL has been observed in that well, or any other wells within GMA 3, since that initial and isolated observation.

Figure 6 depicts the historical maximum extent of NAPL observed at GMA 3. That figure represents a compilation of past investigations and shows the maximum lateral extent of NAPL that has been observed and documented in prior GE reports, and is not indicative of current conditions. Figure 7 indicates the extent of NAPL observed during the semi-annual monitoring event conducted at GMA 3 in spring 2007. As shown on Figures 6 and 7, the northern (upgradient) extent of LNAPL has decreased since the onset of the periodic LNAPL monitoring and recovery activities conducted in this area. Two new observations of NAPL were observed at GMA 3 during isolated monitoring events conducted in spring 2007. These observations (LNAPL at well GMA3-11 and DNAPL at well GMA3-16) are discussed in detail below.

During the April 2007 semi-annual monitoring event, an LNAPL thickness of 0.09 feet was recorded at well GMA3-11. This was the first LNAPL observation at this well, which is located approximately 100 feet downgradient of the existing LNAPL area near Buildings 51 and 59. However, since NAPL removal is generally not performed during the semi-annual monitoring event, the instrument reading indicating the presence of NAPL was not visually confirmed. No LNAPL was observed at this well during monthly monitoring events conducted in May and June 2007. EPA and MDEP were notified of these observations on June 29, 2007 and the well was added to the weekly monitoring program beginning in July 2007. No LNAPL has been observed during any of the weekly monitoring rounds that have

been conducted to date and an instrument error is suspected to be the source of the anomalous reading in the semi-annual monitoring event. Figure 6 has been updated to reflect this apparent detection of LNAPL at well GMA3-11. However, the nearby LNAPL area is not shown to extend to this well, since the data is suspect.

DNAPL was observed in new well GMA3-16 during the spring 2007 monitoring event, which was the first monitoring event conducted at this location after its installation and development. Approximately 0.04 feet of DNAPL was measured at the base of the well and a total of approximately 0.05 liters of DNAPL was removed. EPA and MDEP were notified of this observation on April 29, 2007 and the well was added to the weekly monitoring program beginning in May 2007. No DNAPL has been observed since the initial accumulation was observed and removed from the well. Consistent with prior monitoring results, DNAPL was not encountered in any of the other monitoring wells gauged during spring 2007.

2.5 Groundwater Sampling and Analysis

The spring 2007 interim sampling event was performed between May 5 and 8, 2007. Low-flow sampling techniques using either a bladder or peristaltic pump were utilized for the purging and collection of groundwater samples during this sampling event. The 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 during purging and immediately prior to sampling at all monitoring wells. The data are summarized in Table 6 and the field sampling records are contained in Appendix C. A general summary of the spring 2007 field measurement results, collected just prior to sampling, for the monitoring event is provided below:

Parameter	Units	Range
Turbidity	Nephelometric turbidity units	1 – 26
pH	pH units	3.5 – 9.15
Specific Conductivity	Millisiemens per centimeter	0.25 – 616.3
Oxidation-Reduction Potential	Millivolts	-281.9 – 224.9
Dissolved Oxygen	Milligrams per liter	0.00 – 7.38
Temperature	Degrees Celsius	7.34 - 17.04

As shown above and in Table 6 for this sampling event, none of the groundwater samples extracted from the monitoring wells had turbidity levels greater than the target level of 50 NTU upon stabilization. These results indicate that the sampling and measurement procedures utilized during this sampling event were effective in obtaining groundwater samples with low turbidity. The groundwater samples were shipped via overnight courier to SGS Environmental Services of Wilmington, North Carolina.

The groundwater quality samples were collected from wells sampled for natural attenuation parameters, and, therefore, the samples were submitted for analysis of VOCs using Method 8260B, and for the following additional parameters using the associated EPA Methods:

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

Select natural attenuation samples were also analyzed for two SVOCs that are breakdown byproducts of chlorobenzene (2-chlorophenol and 4-chlorophenol), using EPA Method 8270C.

Following receipt of the analytical data from the laboratory, the preliminary results were reviewed for completeness and compared to the MCP Method 1 GW-2 and GW-3 standards, and to the MCP Upper Concentration Limits (UCLs) for groundwater, as applicable. The preliminary analytical results were presented in the next monthly report on overall activities at the GE-Pittsfield/Housatonic River Site. Finally, the data were validated in accordance with the FSP/QAPP and the validated results were utilized in the preparation of this report. The data validation report is provided in Appendix F. As discussed in the data validation report, 100% of the spring 2007 groundwater quality data are considered to be useable. The validated analytical results are summarized in Section 3 and discussed in Section 4 below.

2.6 Soil Gas Investigations

The inspections and initial sealing activities conducted by GE to determine which of the possible migration pathways identified in the Supplemental Assessment Report and Sampling Plan (including floor slab penetrations, manholes, cracks, pump pits, floor drains, and areas where a concrete slab is not present; collectively referred to herein as "penetrations") may extend to the underlying soil were described in GE's July 24, 2007 *Addendum to Soil Gas Investigation Summary Report and Soil Gas Migration Assessment Report*. As noted above, those activities were conducted pursuant to EPA's June 25, 2007 conditional approval letter to GE. As discussed in Section 6.2 below, samples of sub-slab soil gas and indoor air will be collected in and around the area of Buildings 51 and 59 by GE in fall 2007.

2.7 LNAPL Recovery Testing

As proposed in the Fall 2006 GMA 3 Monitoring Report and conditionally approved by EPA in a letter dated April 19, 2007, GE performed LNAPL recovery testing at wells 51-8, 51-17, 59-3R, GMA3-10, and GMA3-12 over a three–day period between May 15 and May 17, 2007. The results of the LNAPL recovery testing were submitted to EPA on July 17, 2007 in a letter report titled *Groundwater Management Area 3 LNAPL Recovery Assessment – Spring 2007.* As discussed in that report, none of the wells that were tested exhibited overall LNAPL recovery rates greater than the 0.5 liters/hour rate established in the FSP/QAPP that would trigger consideration of that well as a candidate for the installation of a recovery system. Nonetheless, GE proposed to install a new LNAPL recovery system at or near monitoring well 59-3R because GE wishes to attempt to aggressively recover LNAPL in this area, particularly in light of the observation of LNAPL at well GMA3-11 during the spring 2007 NAPL monitoring event, located approximately 100 feet downgradient of the previously delineated extent of LNAPL in this area. If approved by EPA, the proposed skimmer system will be operated for a period of at least one year, after which GE will assess the LNAPL recovery results to determine if the recovery volume is sufficient to justify continued operation of the system.

3. Groundwater Analytical Results

3.1 General

This section presents a description of the spring 2007 groundwater analytical results. A summary of the full validated spring 2007 data set is provided in Appendix D, while the data validation report on these results is presented in Appendix F. Tables 7, 8, and 9 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. Also, Table 10 provides a summary of the detected VOCs and natural attenuation parameters at the wells monitored for indications of natural attenuation processes**.**

3.2 Groundwater Quality Results

3.2.1 VOC Results

Groundwater samples from 22 monitoring wells were analyzed for VOCs during the spring 2007 sampling event. The VOC analytical results are summarized in Table 9 (for constituents detected in one or more groundwater sample) and Appendix D (for all constituents analyzed). VOCs were not detected above laboratory detection limits in one of the groundwater samples, while up to 10 individual VOCs were observed in one or more of the remaining 21 samples. The most commonly observed VOCs were chlorobenzene (detected in 15 groundwater samples, plus one duplicate) and benzene (detected in 13 groundwater samples, plus one duplicate). Total VOC concentrations ranged from non-detect (in monitoring well 111A-R) to an estimated concentration of 230 parts per million (ppm) in natural attenuation monitoring well 2A.

3.2.2 SVOC Results

Groundwater samples from seven monitoring wells were analyzed for 2-chlorophenol and 4-chlorophenol. All SVOC analyses were performed using EPA Method 8270C. The SVOC analytical results for the constituents analyzed are summarized in Table 9 and Appendix D. The constituent 2-chlorophenol was observed in 3 wells (16A, 89A, and 95B-R) at estimated concentrations ranging from 0.0072 ppm to an estimated concentration of 0.028 ppm. The constituent 4-chlorophenol was detected in a single well (95B-R) at a concentration of 0.020 ppm.

3.2.3 Natural Attenuation Monitoring Results

Groundwater samples from 22 monitoring wells were analyzed for natural attenuation parameters as part of the spring 2007 interim sampling event. The analytical results for these parameters (along with any detected VOCs or SVOCs) are provided in Table 10 and Appendix D. A summary of the natural attenuation sampling results is provided below:

Parameter	Number Of Detects	Result Range (ppm)
Alkalinity	22	21-590
Chloride	22	1.1-1,800
Dissolved Organic Carbon	17	ND-36.00
Ethane	1	ND-0.051
Ethene	3	ND-0.80
Dissolved Iron	7	ND-1.07
Methane	14	ND-1.57
Nitrate (Nitrogen)	5	ND-5.9
Nitrite (Nitrogen)	2	ND-0.0760
Sulfate (turbidimetric)	19	ND-190

4. Assessment of Results

4.1 General

This section discusses the groundwater quality Performance Standards, NAPL-related Performance Standards and the results of the interim groundwater sampling event and NAPL monitoring and recovery program at GMA 3 in spring 2007. In general, groundwater analytical results indicate the presence of the same constituents observed historically within GMA 3, and the ongoing NAPL recovery operations at GMA 3 have proven effective in removing LNAPL from the subsurface and in preventing LNAPL migration. A comparison of groundwater data to performance standards is presented in Tables 7 through 9. A summary of the NAPL monitoring schedule is provided in Table 2.

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-2 and GW-3 standards for the constituents detected in the spring 2005 sampling event are listed in Tables 7 and 8, respectively. (In the event of any discrepancy between the standards listed in these tables and those published in the MCP, the latter will be controlling.) For constituents for which Method 1 standards do not exist, the MCP provides procedures, known as Method 2, for developing such standards (Method 2 standards) for both GW-2 (310 CMR 40.0983(2)) and GW-3 (310 CMR 40.0983(4)) groundwater. For such constituents that are detected in groundwater during the baseline monitoring program, Attachment H to the SOW states that in the Baseline Monitoring Program Final Report, GE must propose to develop Method 2 standards using the MCP procedures or alternate procedures approved by EPA, or provide a rationale for why such standards need not be developed. For constituents whose concentrations exceed the applicable Method 1 (or Method 2) standards, GE may develop and propose to EPA alternative GW-2 and/or GW-3 standards based on a site-specific risk assessment. This procedure is known as Method 3 in the MCP. Upon EPA approval, these alternative risk-based GW-2 and/or GW-3 standards may be used in lieu of the Method 1 (or Method 2) standards. Of course, whichever method is used to establish such groundwater standards, GW-2 standards will be applied to GW-2 groundwater and GW-3 standards will be applied to GW-3 groundwater.

Based on consideration of the above points, the specific groundwater quality Performance Standards for GMA 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 GE's *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP).

4.3 Groundwater Quality

The analytical results from the spring 2007 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 7, 8, and 9 (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 one designated GW-2 monitoring well (16B-R) in spring 2007. The spring 2007 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 7. None of the spring 2007 sample results from GW-2 monitoring well 16B-R exceeded the GW-2 standards and total VOC concentrations were well below 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 five monitoring wells at GMA 3 designated as GW-3 monitoring wells (89B, 90B, 95B-R, 111B-R, and 114B-R) were sampled in spring 2007. The spring 2007 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 8. As shown in Table 8, the GW-3 standard for chlorobenzene (1 ppm) was exceeded at two wells (95B-R and 114 B-R) at concentrations of 9.7 ppm and 2.0 ppm, respectively.

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

For the two wells where the Method 1 GW-3 standards for chlorobenzene was exceeded (95B-R and 114B-R), historical VOC data has shown similar or greater concentrations than those detected during spring 2007. In addition, these wells are located in the vicinity of a known chlorobenzene plume. Therefore, GE's proposed response action to address these exceedances is to continue the interim monitoring program, as discussed further in Section 5 below.

4.3.3 Groundwater Results Relative to Upper Concentration Limits

In addition to comparing the spring 2007 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 9. The results shown on Table 9 indicate that one constituent (chlorobenzene) was detected at levels above the applicable UCL. The UCL for chlorobenzene is 10 ppm, which was exceeded at natural attenuation wells 2A (170 ppm), 16A (40 ppm), 39B-R (11 ppm), and 89D-R (31 ppm). None of these was a first-time exceedance, and none of the wells included in the monitoring program as GW-2 or GW-3 monitoring points contained any constituents at concentrations above the MCP UCLs for groundwater.

The screened intervals of two of these four wells are positioned at depths of approximately 50 feet bgs, indicating that the elevated chlorobenzene levels are associated with the mid-level groundwater unit, which is consistent with prior investigation results showing that the VOC plume is primarily present in the A-series wells to the south of the former Waste Stabilization Basin. Well 39B-R is a water table well located immediately adjacent to the downgradient edge of the former Waste Stabilization Basin. Although the UCL was exceeded for the second time at well 89D-R, which is a 77-foot deep well located beneath the VOC plume, the concentrations of VOCs have generally decreased significantly from their historical levels at locations with large historical databases (see Appendix E). In Section 5, GE proposes to continue the current natural attenuation monitoring at these locations to further assess the VOC concentrations in groundwater at this area.

4.4 Natural Attenuation Monitoring Results

In addition to collecting and analyzing groundwater samples for comparison with the applicable MCP Method 1 groundwater standards and UCLs, groundwater samples from 22 monitoring wells were analyzed for natural attenuation parameters to assess intrinsic and natural processes that could mitigate groundwater impacts. The analytical results for these parameters (along with any detected VOCs) are provided in Table 10 and Appendix D. In addition, Table E-1 in Appendix E provides a summary of all available natural attenuation

analytical data (as well as data for selected VOCs analyzed during the natural attenuation monitoring rounds) for the wells that were analyzed for these parameters in spring 2007.

As illustrated in Appendix E, the concentrations of VOCs have decreased significantly from their historical high levels at most locations that have large historical databases. Although the concentrations of VOCs are generally stable or indicate a decreasing trend at GMA 3, natural attenuation parameters can be variable at individual monitoring wells or on a spatial basis (both vertically and horizontally). Several natural attenuation parameters have remained relatively stable over time (e.g., alkalinity), or have only been occasionally observed at low levels (e.g., ethane and ethene). Chlorobenzene breakdown byproducts (i.e., 2- and 4-chlorophenol) are also observed in several wells, indicating the continued natural degradation of this constituent. GE will continue to track changes in concentrations of natural attenuation parameters during the course of the interim monitoring program and will provide updated assessments of these results in future interim summary reports following sampling events when natural attenuation data is collected (i.e., after the spring groundwater quality monitoring rounds). A complete assessment of the natural attenuation parameters and their significance with respect to natural breakdown of VOC constituents in groundwater will be presented in the Baseline Assessment Final Report for this GMA.

4.5 Overall Assessment of Analytical Results

Graphs illustrating historical concentrations of total VOCs, including the spring 2007 concentrations, are provided in Appendix E for all wells sampled in spring 2007 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 monitoring wells during any of the prior baseline monitoring program sampling events that were analyzed for those constituents in spring 2007.

The spring 2007 monitoring event constitutes the sixth or seventh sampling event at many locations sampled under the GMA 3 groundwater quality monitoring program. Thus the amount of data available to assess any season-specific trends in constituent concentrations is somewhat limited in certain wells, while other wells have an extensive historical database. Based on a review of the Concentration vs. Time graphs presented in Appendix E, it appears that concentrations of total VOCs have decreased in comparison to historical high levels in many of the wells downgradient of the former Waste Stabilization Basin, (i.e., the area known to contain the greatest VOC concentrations) where several years of prior data are available. While slight increases have been observed in a few wells during the baseline monitoring program, the constituent concentrations are in general well below historical high levels. During the fall 2005 sampling event, a general increase in VOC concentrations was

observed at the 114 well cluster, particularly well 114A. Results from the last three monitoring rounds, however, indicate lower total VOC concentrations for well 114A, indicating that the data generated in December 2005 for that well may be anomalous.

4.6 Evaluation of NAPL Monitoring and Recovery Activities

4.6.1 Extent of NAPL

The historical maximum extent of measurable LNAPL at GMA 3 is illustrated on Figure 6. The extent of LNAPL observed during the Spring 2007 semi-annual monitoring event is shown on Figure 7. These figures show a significant decrease in the extent of measurable LNAPL observed in spring 2007 compared to the known maximum extent, particularly along the northeastern edge of the LNAPL area. This reduction in LNAPL extent on the northeastern portion of the LNAPL plume is likely attributable to GE's active NAPL recovery program, which includes an automatic skimmer system in well 51-21 and routine manual recovery of LNAPL at surrounding locations.

The extent of LNAPL has increased slightly to the southwest, as LNAPL was observed (once) at well GMA3-11 (to the west of building 59) for the first time in April 2007. Well GMA 3-11 is monitored monthly, and this was the only LNAPL observation at this well during the monitoring period.

The extent of LNAPL to the east of Building 51 was slightly different than the prior monitoring event. Specifically, LNAPL was observed in wells 51-5 and 51-16R during the spring 2007 monitoring event, but was not observed in wells 51-5 or 51-16R during the fall 2006 monitoring event. The extent of LNAPL to the west of Building 51 shows a slight increase from fall 2006 due to the presence of LNAPL observed in well GMA3-13 during the spring 2007 monitoring event. However, wells 51-5, 51-16R, and GMA3-13 all previously contained LNAPL and these differences likely represent relatively minor changes near the edges of the LNAPL plume.

A new well, GMA3-16, was installed in March 2007 at the location of Unkamet Brook Area pre-design investigation soil boring RAA10-N-Y-18. This well was installed to further assess NAPL in this area, as NAPL was observed during the drilling of the pre-design soil boring. This well has been monitored on a weekly basis since April 27, 2007. DNAPL was observed and removed for the first time during the spring 2007 monitoring/bailing rounds and has not been noted since. Figures 6 and 7 reflect this new observation of the isolated DNAPL occurrence in GMA 3.

GE has also monitored well GMA4-3, located in GMA 4 across Plastics Avenue from well GMA3-13. NAPL has never been detected in that well. Moreover, in EPA's December 7, 2006 conditional approval letter, EPA required GE to include GMA 4 wells 60B and RF-14 in the groundwater elevation table and contour map for GMA 3. Accordingly, GE has included those wells in this report. Except for the potential presence of LNAPL in well GMA3-11 (based on a single suspect instrument reading), the reduction of LNAPL along the northern edge of the LNAPL area and occasional variations in LNAPL presence in well GMA3-13, the extent of LNAPL has remained relatively consistent in recent years.

4.6.2 NAPL Recovery

As discussed in Section 2.4, approximately 36.9 gallons of LNAPL were recovered at GMA 3 in spring 2007. Of this total, approximately 31.6 gallons were removed by the automated skimmer system at well 51-21, and the remaining 5.3 gallons were manually recovered from other monitoring wells (see Table 5). For comparison, over the same time period in spring 2006, approximately 32.8 gallons of LNAPL were recovered at GMA 3 (approximately 24.9 gallons by the automated skimmer system at well 51-21, and approximately 7.9 gallons from other monitoring wells), indicating that LNAPL recovery has been generally consistent with the prior year. Since 1997, approximately 1,269 gallons of LNAPL have been removed from GMA 3 as part of GE's NAPL monitoring and recovery program. This total removal volume has been corrected since the previous GMA 3 report to reflect a revision in the LNAPL removal volume cited for the spring 2005 season, which was incorrectly reported in the Spring 2005 GMA 3 report, as well as in the subsequent Spring 2006 GMA 3 Report. In Spring 2005, approximately 34 gallons of LNAPL were removed at GMA 3. Of this total, approximately 20 gallons were removed by the automated skimmer system at well 51-21 and the remaining 14 gallons were removed manually.

Based on the fact that the vast majority of the LNAPL removal at GMA 3 is accomplished by the automated skimmer system at well 51-21, GE proposed to conduct an LNAPL recovery test on specific wells to determine if additional recovery systems would be effective in removing LNAPL. GE conducted the test from May 15 – 17, 2007, and presented the results in the *LNAPL Recovery Assessment – Spring 2007* letter submitted to the EPA on July 17, 2007. As noted above, none of the wells that were tested exhibited overall LNAPL recovery rates greater than the 0.5 liters/hour rate established in the FSP/QAPP that would trigger consideration of that well as a candidate for the installation of a recovery system. Nonetheless, in that letter, because GE wishes to attempt to aggressively recover LNAPL in this area, GE proposed to install a new LNAPL recovery system at or near monitoring well 59-3R to be operated for a period of at least one year after which GE will assess the LNAPL recovery results to determine if the recovery volume is sufficient to justify continued operation of the system.

5. Proposed Groundwater and NAPL Monitoring Program Modifications

5.1 General

The interim monitoring program now being conducted is designed to continue the natural attenuation monitoring program and obtain additional data from locations where it is not yet clear whether the initial baseline groundwater quality results indicate that the well may require future monitoring in a long-term program.

This section contains a description of proposed and recently approved/required modifications to the interim groundwater quality and NAPL monitoring program. These modifications are proposed in response to the results of GE's assessment of its NAPL monitoring/recovery data, the spring 2007 soil gas/indoor air investigations, and EPA approval conditions related to recent GE submittals.

5.2 Interim Groundwater Quality Monitoring Program Modifications

As required in EPA's December 7, 2006 conditional approval letter related to the Spring 2006 GMA 3 Report, GE will analyze filtered samples from well 114A for PCBs during interim groundwater quality monitoring events where similar samples are collected from well 114B-R. The next such interim sampling event is scheduled for fall 2007. In spring 2008, these wells will also be sampled and analyzed for VOCs and natural attenuation parameters.

5.3 NAPL Monitoring Program Modifications

GE proposed in its July 17, 2007 letter to EPA to install a skimmer at or near monitoring well 59-3R based on the results of the spring 2007 LNAPL recovery testing, even though that well does not meet the normal criteria for automated recovery systems. If space limitations exist between Buildings 51 and 59, GE also proposed the addition of a new LNAPL recovery well as near as possible to monitoring well 59-3R to allow the associated storage hut to be constructed without interfering with other operations at the facility. GE will monitor the new system for a period of at least one year, after which GE will assess the LNAPL recovery results to determine if the recovery volume is sufficient to justify continued operation of the system.

GE will continue to monitor for the presence of NAPL in wells GMA3-11 and GMA3-16 on a weekly basis through the fall 2007 monitoring period to further assess the isolated NAPL observations in these wells during the spring 2007 monitoring event. The results of that

monitoring, along with any proposals to modify the monitoring schedule at these wells will be included in the next semi-annual report. No other changes to GE's ongoing NAPL monitoring or recovery activities at GMA 3 are proposed at this time.

5.4 Soil Gas/Indoor Air Quality Monitoring Program Modifications

As described GE's July 24, 2007 letter to EPA, five penetrations within Building 51 that may extend to the underlying soil were unable to be sealed during the recent inspections. GE is currently evaluating those locations further and will attempt, if possible, to seal those penetrations with concrete and/or concrete grout. GE also proposed to submit a follow-up report to EPA, summarizing the results of those activities, within 60 days of EPA's approval of that. If any of those penetrations is unable to be sealed, GE will also include in that report a proposal for the collection and analysis of soil gas samples in the vicinity of the unsealed penetration(s) in accordance with Condition 2 of EPA's June 25, 2007 letter. That sampling, if necessary, will be performed in conjunction with the material/product inventory and soil gas/indoor air sampling activities scheduled for Buildings 51 and 59 in fall 2007.

6. Schedule of Future Activities

6.1 General

This section addresses the schedule for future groundwater quality monitoring activities and reporting for GMA 3. This schedule assumes that the modifications to the interim groundwater monitoring program proposed in Section 5 will be implemented following EPA approval.

6.2 Field Activities Schedule

GE will continue its routine groundwater elevation and NAPL monitoring according to the current schedule approved by EPA. In accordance with the approved semi-annual monitoring schedule, the fall 2007 groundwater elevation monitoring and NAPL monitoring event is scheduled to be completed in October 2007. GE will conduct a NAPL bailing round approximately one to two weeks prior to the fall 2007 semi-annual NAPL monitoring event.

As mentioned in the July 17, 2007 letter to EPA, GE proposed to install a skimmer at or near monitoring well 59-3R based on the results of the spring 2007 LNAPL recovery testing. If space limitations exist between Buildings 51 and 59, GE also proposed the addition of a new LNAPL recovery well as near as possible to monitoring well 59-3R to allow the associated storage hut to be constructed without interfering with other operations at the facility. GE will monitor the new system for a period of at least one year, after which GE will assess the LNAPL recovery results to determine if the recovery volume is sufficient to justify continued operation of the system.

The next natural attenuation monitoring event (conducted each spring) is scheduled for April 2008. GE will sample 22 wells, analyzing for VOCs and the natural attenuation parameters listed in Table 1.

Unlike the natural attenuation sampling, interim groundwater sampling activities alternate between the spring and fall seasons on an annual basis. The next interim sampling event is scheduled for October 2007, when groundwater samples will be collected and analyzed from five monitoring wells (including well 114A, where PCB sampling will be added to the interim monitoring program) for the constituents listed in Table 11.

In accordance with EPA's June 25, 2007 approval letter of GE's March 2007 *Supplemental Soil Gas Migration Assessment Report and Sampling Plan* (Report and Sampling Plan), GE will also conduct subsurface soil gas and indoor air sampling within Buildings 51 and 59, as well as conduct an inventory of products as specified in the Report and Sampling Plan.

Additional soil gas sampling activities may be proposed and conducted in Building 51 if GE is unable to seal the remaining potential penetrations discussed in GE's July 24, 2007 letter to EPA. GE will conduct the product inventory and any approved soil gas/indoor air sampling activities in conjunction with the fall 2007 interim groundwater sampling event, or sequentially after completion of the groundwater sampling activities. The results shall be included with the GMA 3 groundwater monitoring report for Fall 2007. Soil gas and indoor air sampling will be conducted annually thereafter and the resulted will be submitted with the fall groundwater monitoring report for GMA 3.

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 a Fall 2007 Groundwater Elevation and NAPL Monitoring Report for Fall 2007 for GMA 3 by February 28, 2008. That report will primarily present the groundwater elevation monitoring results and NAPL monitoring and recovery data for the period of July 2007 through December 2007. It will also contain a summary of other activities related to groundwater quality and NAPL monitoring recovery conducted at GMA 3 during that time period and any proposals to modify those activities, if applicable. In addition, GE will include the results of the soil gas monitoring and the inventory at Buildings 51 and 59 with the groundwater monitoring report for GMA 3 for Fall 2007.

GE will also continue to provide the results of its ongoing groundwater, NAPL, soil gas, and indoor monitoring activities and NAPL recovery efforts (including any results associated with the proposed LNAPL skimmer system to be installed in GMA 3) in its monthly reports on overall activities at the GE-Pittsfield/Housatonic River Site.

Tables

Table 1
Groundwater Quality Monitoring Program Summary

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Well Number	Well Designation / Analytical Category	Sampling Schedule	Analyses	Comments
2A	Natural Attenuation	Annual (1)	See Note 3	
6B-R	GW-3 Perimeter	Annual (2)	VOC	
16A	Natural Attenuation	Annual (1)	See Note 3	
16B-R	GW-2 Sentinel/Natural Attenuation	Annual (1)	See Note 4	
16C-R	Natural Attenuation	Annual (1)	See Note 4	
39B-R	Natural Attenuation	Annual (1)	See Note 3	
39D-R	Natural Attenuation	Annual (1)	See Note 4	
39E	Natural Attenuation	Annual (1)	See Note 4	
43A	Natural Attenuation	Annual (1)	See Note 4	
43B	Natural Attenuation	Annual (1)	See Note 4	
51-14	GW-2 Sentinel	Annual (2)	VOC	
82B-R	GW-3 Perimeter	Annual (2)	PCB	
89A	Natural Attenuation	Annual (1)	See Note 3	
89B	GW-3 Perimeter/Natural Attenuation	Annual (1)	See Note 3	
89D-R	Natural Attenuation	Annual (1)	See Note 4	
90A	Natural Attenuation	Annual (1)	See Note 4	
90B	GW-3 Perimeter/Natural Attenuation	Annual (1)	See Note 4	
95A	Natural Attenuation	Annual (1)	See Note 3	
95B-R	GW-3 Perimeter/Natural Attenuation	Annual (1)	See Note 3	
111A-R	Natural Attenuation	Annual (1)	See Note 4	

Table 1
Groundwater Quality Monitoring Program Summary

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Well Number	Well Designation / Analytical Category	Sampling Schedule	Analyses	Comments
111B-R	GW-3 Perimeter/Natural Attenuation	Annual (1)	See Note 4	
114A	Natural Attenuation	Annual (1,2)	See Note 5	Interim sampling for PCBs to be added in fall 2007.
114B-R	GW-3 Perimeter/Natural Attenuation	Annual (1,2)	See Note 5	
115A	Natural Attenuation	Annual (1)	See Note 4	
115B	Natural Attenuation	Annual (1)	See Note 4	

Notes:
1. Wells sampled under the natural attenuation monitoring program are sampled on an annual basis in the spring.
2. Wells proposed for annual interim groundwater quality sampling, are sampled for the listed parameters during the interim period between the completion of the baseline monitoring program and the initiation of a long-term monitoring program. The sampling schedule alternates between the spring and fall seasons each year, with the next sampling round scheduled for fall 2007.
3. Samples analyzed for: VOCs, two SVOCs (2-chlorophenol and 4-chlorophenol), and for Natural Attenuation Parameters (methane, ethane, ethene, chloride, nitrate, nitrite, alkalinity, dissolved organic carbon, sulfate, and dissolved iron).
4. Samples analyzed for: VOCs and for Natural Attenuation Parameters (methane, ethane, ethene, chloride, nitrate, nitrite, alkalinity, dissolved organic carbon, sulfate, and dissolved iron).
5. Samples analyzed for: VOCs and Natural Attenuation Parameters (methane, ethane, ethene, chloride, nitrate, nitrite, alkalinity, dissolved organic carbon, sulfate, and dissolved iron) during the spring natural attenuation sampling rounds, and for PCBs (filtered samples only)during the alternating spring/fall interim sampling rounds.

Table 2
Groundwater Elevation/NAPL Monitoring Program Summary

Groundwater Quality and NAPL Monitoring Interim Report For Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Well Number	Monitoring Frequency (1)	Manual NAPL Removal Criteria (2)	Comments
GMA 3 Monitoring Wells			
2A	Semi-Annual	Any Recoverable	
6B-R	Semi-Annual	Any Recoverable	
16A	Semi-Annual	Any Recoverable	
16B-R	Semi-Annual	Any Recoverable	
16C-R	Semi-Annual	Any Recoverable	
39B-R	Semi-Annual	Any Recoverable	
39D-R	Semi-Annual	Any Recoverable	Well 39D-R installed as a replacement for well 39D.
39E	Semi-Annual	Any Recoverable	
43A	Semi-Annual	Any Recoverable	
43B	Semi-Annual	Any Recoverable	
51-05	Monthly	Standard Criteria	
51-06	Monthly	Standard Criteria	
51-07	Monthly	Standard Criteria	
51-08	Weekly	Standard Criteria	
51-09	Monthly	Standard Criteria	
51-11	Monthly	Standard Criteria	
51-12	Monthly	Standard Criteria	
51-13	Monthly	Standard Criteria	
51-14	Monthly	Standard Criteria	
51-15	Monthly	Standard Criteria	
51-16R	Monthly	Standard Criteria	
51-17	Monthly	Standard Criteria	
51-18	Monthly	Standard Criteria	
51-19	Monthly	Standard Criteria	
51-21	Quarterly	Any Recoverable	LNAPL skimmer present in well.
54B-R	Semi-Annual	Any Recoverable	
59-01	Monthly	Standard Criteria	
59-03R	Monthly	Standard Criteria	
59-07	Monthly	Standard Criteria	
78B-R	Monthly	Any Recoverable	
82B-R	Semi-Annual	Any Recoverable	
89A	Semi-Annual	Any Recoverable	
89B	Semi-Annual	Any Recoverable	
89D-R	Semi-Annual	Any Recoverable	
90A	Semi-Annual	Any Recoverable	
90B	Semi-Annual	Any Recoverable	
95A	Semi-Annual	Any Recoverable	
95B-R	Semi-Annual	Any Recoverable	
111A-R	Semi-Annual	Any Recoverable	
111B-R	Semi-Annual	Any Recoverable	
114A	Semi-Annual	Any Recoverable	
114B-R	Semi-Annual	Any Recoverable	
115A	Semi-Annual	Any Recoverable	
115B	Semi-Annual	Any Recoverable	
GMA3-1	None	None	Installation of this well has been deferred until re-routing of Unkamet Brook is completed.

Table 2
Groundwater Elevation/NAPL Monitoring Program Summary

Groundwater Quality and NAPL Monitoring Interim Report For Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Well Number	Monitoring Frequency (1)	Manual NAPL Removal Criteria (2)	Comments
GMA3-2	Semi-Annual	Any Recoverable	
GMA3-3	Semi-Annual	Any Recoverable	
GMA3-4	Semi-Annual	Any Recoverable	
GMA3-5	Semi-Annual	Any Recoverable	
GMA3-6	Semi-Annual	Any Recoverable	
GMA3-7	Quarterly	Any Recoverable	Monitored in place of UB-PZ-1.
GMA3-8	Semi-Annual	Any Recoverable	
GMA3-9	Semi-Annual	Any Recoverable	
GMA3-10	Weekly	Standard Criteria	
GMA3-11	Monthly	Any Recoverable	
GMA3-12	Weekly	Standard Criteria	
GMA3-13	Weekly	Any Recoverable	
GMA3-14	Monthly	Any Recoverable	
GMA3-15	Quarterly	Any Recoverable	Monitored in place of UB-PZ-2.
GMA3-16	Weekly	Any Recoverable	This well was installed March 2007.
OBG-2	Semi-Annual	Any Recoverable	
UB-MW-10	Monthly	Any Recoverable	
UB-PZ-3	Monthly	Any Recoverable	
GMA 4 Monitoring Wells			
60B-R	Semi-Annual	Any Recoverable	
GMA4-3	Monthly	Any Recoverable	
RF-14	Semi-Annual	Any Recoverable	
GMA 3 Staff Gauges			
GMA3-SG-1	Semi-Annual	Not Applicable	
GMA3-SG-2	Semi-Annual	Not Applicable	
GMA3-SG-3	Semi-Annual	Not Applicable	
GMA3-SG-4	Semi-Annual	Not Applicable	

Notes:

1. Monitoring consists of periodic depth to water and NAPL thickness measurements, if present and may also consist of manual removal of NAPL if a thickness greater than the well-specific criteria is observed during a monitoring event.
2. Standard LNAPL Removal Criteria: LNAPL is manually removed from a well with this designation if a thickness of greater than 0.25 feet is observed during a monitoring event. At other wells, any recoverable quantities of LNAPL will be removed (except at well 51-21, which is equipped with an automated skimmer).
3. Any NAPL observed during the bailing round conducted prior to the spring and fall semi-annual monitoring events is manually removed.
4. No NAPL is manually removed from any wells during the spring and fall semi-annual monitoring events, provided that NAPL was removed during the bailing round.
5. No NAPL is manually removed from any wells during non-routine data collection activities.

Table 3
Monitoring Well Construction Summary

Groundwater Quality and NAPL Monitoring Interim Report For Spring 2007
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	985.75
6B-R	537191.50	138910.00	2.00	991.40	993.62	2.00	10.00	989.40	979.40	4.8	986.64
16A	536730.50	139115.60	2.00	991.50	991.77	44.00	6.00	947.50	941.50	6.9	984.62
16B-R	536738.18	139076.37	2.00	991.80	994.87	3.08	10.00	988.72	978.72	6.2	985.62
16C-R	536734.00	139112.40	2.00	991.40	993.23	90.00	10.00	901.40	891.40	7.8	983.65
16E	536730.30	139112.70	1.00	991.40	992.14	144.00	6.00	847.40	841.40	7.2	984.18
39B-R	536938.60	138862.60	2.00	992.29	991.97	4.00	10.00	988.29	978.29	6.8	985.52
39D-R	536941.50	138854.80	2.00	992.30	994.73	55.00	10.00	937.30	927.30	6.3	985.95
39D	536948.40	138857.90	4.00	992.34	992.16	56.00	10.00	936.34	926.34	6.4	985.95
39E	536932.10	138851.00	4.00	992.34	992.21	225.00	10.00	767.34	757.34	6.4	985.95
43A	538081.20	137905.90	1.00	991.90	993.79	45.00	5.00	946.90	941.90	5.1	986.76
43B	538081.20	137904.40	1.00	991.90	993.61	15.00	5.00	976.90	971.90	4.2	987.72
51-05	536750.50	138335.60	2.00	996.91	996.44	5.00	10.00	991.91	981.91	10.2	986.75
51-06	536937.64	138194.32	2.00	997.57	997.36	5.00	10.00	992.57	982.57	10.5	987.08
51-07	536843.80	138244.60	2.00	997.26	997.08	5.00	10.00	992.26	982.26	10.2	987.08
51-08	536677.80	138317.00	2.00	997.39	997.08	5.00	10.00	992.39	982.39	10.8	986.57
51-09	536563.70	138370.30	2.00	997.76	997.70	5.00	10.00	992.76	982.76	9.8	987.96
51-11	536860.00	138774.50	2.00	994.62	994.37	5.00	10.00	989.62	979.62	8.3	986.30
51-12	536497.30	138518.50	2.00	996.83	996.55	5.00	10.00	991.83	981.83	7.3	989.56
51-13	536917.10	138579.80	2.00	997.68	997.65	5.00	10.00	992.68	982.68	8.8	988.84
51-14	536771.40	138502.60	2.00	996.93	996.77	5.00	10.00	991.93	981.93	10.3	986.66
51-15	536808.20	138306.30	2.00	996.68	996.43	5.00	10.00	991.68	981.68	10.0	986.69
51-16R	536830.20	138347.60	2.00	996.70	996.39	5.00	10.00	991.70	981.70	9.7	986.97
51-17	536769.90	138377.40	2.00	996.48	996.43	5.00	10.00	991.48	981.48	9.6	986.87
51-18	536902.90	138463.40	2.00	997.38	997.12	5.00	10.00	992.38	982.38	10.6	986.77
51-19	536823.20	138414.80	2.00	996.65	996.43	5.00	10.00	991.65	981.65	10.1	986.51
51-21	536767.70	138442.35	4.00	996.70*	1,001.49	5.00	10.00	991.70	981.70	9.9	986.84
54B-R	537827.30	139113.60	2.00	989.00	991.49	3.00	10.00	986.00	976.00	2.2	986.76
59-01	536488.80	138238.60	2.00	997.78	996.72	4.00	20.00	993.78	973.78	10.2	987.58
59-03R	536501.00	138260.70	2.00	997.82	997.64	7.30	10.00	990.52	980.52	11.1	986.74
59-07	536517.40	138296.10	2.00	998.27	997.96	4.00	20.00	994.27	974.27	11.4	986.84
78B-R	537551.80	138716.50	2.00	989.11	988.83	1.82	10.00	987.29	977.29	1.8	987.34
82B-R	536937.40	139621.60	2.00	987.80	989.90	2.00	10.00	985.80	975.80	2.5	985.32
89A	536030.80	139413.40	1.00	983.60	985.76	43.00	5.00	940.60	935.60	0.7	982.85
89B	536031.60	139411.70	2.00	983.10	986.03	4.00	3.00	979.10	976.10	-0.4	983.50
89D-R	536072.20	139434.90	2.00	984.40	987.11	67.50	10.00	916.90	906.90	1.4	983.00
90A	536254.90	139765.40	1.00	986.50	988.07	45.00	5.00	941.50	936.50	3.6	982.89
90B	536251.60	139761.00	2.00	986.50	989.10	8.00	3.00	978.50	975.50	3.9	982.59
95A	535822.10	139769.60	1.00	985.30	987.18	45.00	5.00	940.30	935.30	4.3	981.04
95B-R	535637.20	139722.30	2.00	984.30	986.24	3.00	10.00	981.30	971.30	3.5	980.76
95C	535823.20	139780.30	1.00	985.30	988.16	95.00	5.00	890.30	885.30	1.2	984.07
111A-R	535824.10	139087.80	2.00	995.10	997.35	40.00	10.00	955.10	945.10	11.4	983.70
111B-R	535828.40	139092.00	2.00	994.80	997.48	7.18	10.00	987.62	977.62	11.6	983.16

Table 3
Monitoring Well Construction Summary

Groundwater Quality and NAPL Monitoring Interim Report For Spring 2007
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									
114A	535499.50	139775.20	1.00	983.20	986.16	45.00	5.00	938.20	933.20	3.6	979.64
114B-R	535503.90	139786.90	2.00	983.50	985.54	4.00	10.00	979.50	969.50	4.2	979.32
115A	535499.50	139775.20	1.00	986.69	988.53	36.00	5.00	950.69	945.69	7.8	978.94
115B	535496.90	139796.60	1.00	988.25	990.90	11.00	5.00	977.25	972.25	8.4	979.83
GMA3-2	536596.40	138956.60	2.00	992.25	991.94	5.19	10.00	987.06	977.06	7.9	984.36
GMA3-3	538094.20	138178.20	2.00	990.86	990.45	2.00	10.00	988.86	978.86	2.1	988.78
GMA3-4	537044.70	138021.80	2.00	994.94	994.60	3.57	10.00	991.37	981.37	7.6	987.39
GMA3-5	537323.20	139766.90	2.00	991.50	993.67	4.00	10.00	987.50	977.50	5.5	986.02
GMA3-6	537021.50	138342.30	2.00	997.74	997.49	8.00	10.00	989.74	979.74	11.9	985.88
GMA3-7	536291.70	138397.40	2.00	1000.45	1000.17	10.00	10.00	990.45	980.45	12.9	987.56
GMA3-8	536339.60	138899.10	2.00	994.50	996.24	5.00	10.00	989.50	979.50	8.7	985.80
GMA3-9	537383.20	138385.60	2.00	992.90	992.39	3.00	10.00	989.90	979.90	5.1	987.82
GMA3-10	536659.10	138056.40	2.00	997.78	997.54	9.00	10.00	988.78	978.78	10.0	987.83
GMA3-11	536353.70	138147.90	2.00	997.78	997.25	9.00	10.00	988.78	978.78	9.8	988.03
GMA3-12	536469.20	138169.70	4.00	998.04	997.84	7.00	15.00	991.04	976.04	10.3	987.77
GMA3-13	536534.30	138035.90	2.00	998.00	997.73	8.06	10	989.94	979.94	9.8	988.24
GMA3-14	536710.30	137953.20	2.00	997.66	997.42	7.25	10	990.41	980.41	9.3	988.32
GMA3-15	536710.30	137953.20	2.00	994.60	996.74	6.00	10.00	988.60	978.60	6.0	988.61
GMA3-16	537542.70	138665.00	2.00	989.80	989.26	2.00	10.00	987.80	977.80	1.3	988.46
OBG-2	537209.10	139475.80	3.00	992.24	992.20	3.00	11.40	989.24	977.84	5.0	987.21
UB-MW-10	536908.10	138278.30	1.00	996.21	995.99	8.00	10.00	988.21	978.21	9.4	986.81
UB-PZ-3	536480.10	138110.00	1.00	998.55	998.15	11.00	5.00	987.55	982.55	11.8	986.71

Notes:
1. The listed wells were scheduled to be utilized during spring 2007 for interim groundwater quality sampling or groundwater elevation monitoring.
2. ft AMSL: Feet above mean sea level
3. ft bgs: Feet below ground surface

Table 4
Groundwater Elevation Data - Spring 2007

Groundwater Quality and NAPL Monitoring Interim Report For Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Well Number	Overall Average Groundwater (ft AMSL)	Average Spring Groundwater (ft AMSL)	Spring 2007 Groundwater (ft AMSL)	Spring 2007 LNAPL Thickness (ft)	Spring 2007 DNAPL Thickness (ft)
GMA3 Monitoring Wells Screened at Water Table					
02A	985.75	986.58	NA	NA	NA
6B-R	986.64	987.30	987.37	0.00	0.00
16B-R	985.62	985.87	985.09	0.00	0.00
39B-R	985.52	986.18	986.61	0.00	0.00
43B	987.72	987.86	988.08	0.00	0.00
51-05	986.75	986.73	987.86	0.02	0.00
51-06	987.08	987.12	988.07	0.00	0.00
51-07	987.08	986.91	987.85	0.00	0.00
51-08	986.57	986.71	987.58	0.03	0.00
51-09	987.96	988.17	988.51	0.00	0.00
51-11	986.30	986.90	987.61	0.00	0.00
51-12	989.56	989.60	989.80	0.00	0.00
51-13	988.84	987.52	<987.61	0.00	0.00
51-14	986.66	986.65	987.37	0.00	0.00
51-15	986.69	986.76	987.59	0.00	0.00
51-16R	986.97	986.82	987.56	0.00	0.00
51-17	986.87	986.89	987.70	0.26	0.00
51-18	986.77	986.73	987.52	0.00	0.00
51-19	986.51	986.64	987.31	0.01	0.00
51-21	986.84	986.46	987.47	<0.01	0.00
54B-R	986.76	987.19	987.42	0.00	0.00
59-01	987.58	986.94	987.68	0.00	0.00
59-03R	986.74	986.74	987.72	1.16	0.00
59-07	986.84	986.84	987.75	0.01	0.00
78B-R	987.34	987.64	988.03	0.00	0.00
82B-R	985.32	986.50	987.08	0.00	0.00
89B	983.50	983.30	984.07	0.00	0.00
90B	982.59	983.19	984.03	0.00	0.00
95B-R	980.76	980.96	981.59	0.00	0.00
111B-R	983.16	983.74	984.50	0.00	0.00
114B-R	979.32	979.65	980.73	0.00	0.00
115B	979.83	979.93	981.79	0.00	0.00
GMA3-2	984.36	985.07	986.09	0.00	0.00
GMA3-3	988.78	989.83	989.85	0.00	0.00
GMA3-4	987.39	988.15	988.89	0.00	0.00
GMA3-5	986.02	986.66	987.35	0.00	0.00
GMA3-6	985.88	986.24	987.91	0.00	0.00
GMA3-7	987.56	987.45	988.14	0.00	0.00
GMA3-8	985.80	986.98	987.48	0.00	0.00
GMA3-9	987.82	988.31	988.94	0.00	0.00
GMA3-10	987.83	987.42	987.85	0.55	0.00
GMA3-11	988.03	987.67	988.13	0.09	0.00
GMA3-12	987.77	987.23	987.75	0.06	0.00
GMA3-13	988.24	987.37	987.86	0.26	0.00
GMA3-14	988.32	987.50	988.02	0.00	0.00
GMA3-15	988.61	986.34	986.80	0.00	0.00
GMA3-16	988.46	988.46	988.46	0.00	0.04
OBG-2	987.21	987.80	988.43	0.00	0.00
UB-MW-10	986.81	986.81	987.73	0.00	0.00
UB-PZ-3	986.71	986.49	986.15	0.00	0.00

Table 4
Groundwater Elevation Data - Spring 2007

Groundwater Quality and NAPL Monitoring Interim Report For Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Well Number	Overall Average Groundwater (ft AMSL)	Average Spring Groundwater (ft AMSL)	Spring 2007 Groundwater (ft AMSL)	Spring 2007 LNAPL Thickness (ft)	Spring 2007 DNAPL Thickness (ft)
GMA4 Monitoring Wells Screened at Water Table					
60B-R	987.62	987.79	989.14	0.00	0.00
GMA4-3	986.71	986.71	987.85	0.00	0.00
RF-14	990.74	1,017.14	994.98	0.00	0.00
Monitoring Wells Screened Below Water Table					
16A	984.62	985.45	985.86	0.00	0.00
16C-R	983.65	985.28	986.46	0.00	0.00
39D-R	985.95	986.48	987.13	0.00	0.00
39E	986.51	987.07	987.78	0.00	0.00
43A	986.76	987.71	988.70	0.00	0.00
89A	982.85	983.68	984.15	0.00	0.00
89D-R	983.00	983.76	984.23	0.00	0.00
90A	982.89	983.78	985.25	0.00	0.00
95A	981.04	981.07	981.56	0.00	0.00
111A-R	983.70	984.65	985.23	0.00	0.00
114A	979.64	979.99	981.45	0.00	0.00
115A	978.94	981.04	982.63	0.00	0.00
GMA 3 Staff Gauges					
GMA3-SG-2	NA	NA	984.66	0.00	0.00
GMA3-SG-3	NA	NA	991.45	0.00	0.00
GMA3-SG-4	NA	NA	990.49	0.00	0.00

Notes:

1. Groundwater elevation/NAPL thickness data collected between April 24 through April 27, 2007.
2. Groundwater elevations denoted <## indicate that the well was dry on the date measured and the referenced elevation represents the base of well elevation.
3. Average groundwater elevations based on available seasonal groundwater elevation data since 2000.
4. NA - Data Not Available

Table 5
Groundwater Elevation and LNAPL Monitoring/Recovery Data Summary

Groundwater Quality and NAPL Monitoring Interim Report For Spring 2007
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									
6B-R	1	993.62	6.25	6.25	0	---	---	0.00	0.00
16A	1	991.77	5.91	5.91	0	---	---	0.00	0.00
16B-R	1	994.87	9.78	9.78	0	---	---	0.00	0.00
16C-R	1	993.23	6.77	6.77	0	---	---	0.00	0.00
39B-R	1	991.97	5.36	5.36	0	---	---	0.00	0.00
39D-R	1	994.73	7.6	7.60	0	---	---	0.00	0.00
39E	1	992.21	4.43	4.43	0	---	---	0.00	0.00
43A	1	993.79	5.09	5.09	0	---	---	0.00	0.00
43B	1	993.61	5.53	5.53	0	---	---	0.00	0.00
51-05	5	996.44	7.63	10.30	2	0.02	0.04	0.01	0.00
51-06	7	997.36	9.29	11.60	0	---	---	0.00	0.00
51-07	7	997.08	9.23	10.80	0	---	---	0.00	0.00
51-08	26	997.08	9.53	12.65	26	0.02	1.3	6.30	1.66
51-09	5	997.70	9.19	10.72	0	---	---	0.00	0.00
51-11	6	994.37	6.6	9.20	0	---	---	0.00	0.00
51-12	6	996.55	6.62	7.60	0	---	---	0.00	0.00
51-13	6[3]	997.42	NA	NA	NA	NA	NA	0.00	0.00
51-14	6	996.77	9.4	11.30	0	---	---	0.00	0.00
51-15	6	996.43	8.84	10.75	3	0.02	0.05	0.01	0.00
51-16R	6	996.39	8.83	10.85	4	0.01	0.2	0.00	0.00
51-17	6	996.43	8.97	11.30	6	0.19	1.27	2.34	0.62

Table 5
Groundwater Elevation and LNAPL Monitoring/Recovery Data Summary

Groundwater Quality and NAPL Monitoring Interim Report For Spring 2007
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)
51-18	6	997.12	9.6	11.10	0	---	---	0.00	0.00
51-19	6	996.43	9.13	11.03	6	0.01	0.13	0.05	0.01
51-21	26	1001.49	13.8	16.90	25	<0.01	0.01	119.56	31.58
54B-R	1	991.49	4.07	4.07	0	---	---	0.00	0.00
59-01	6	997.52	9.84	11.31	1	0.02	0.02	0.00	0.00
59-03R	6	997.64	11	12.50	6	0.48	1.16	1.99	0.52
59-07	6	997.96	10.22	12.13	6	0.01	0.06	0.04	0.01
78B-R	5	988.83	0.8	1.84	0	---	---	0.00	0.00
82B-R	1	989.90	2.82	2.82	0	---	---	0.00	0.00
89A	1	985.76	1.61	1.61	0	---	---	0.00	0.00
89B	1	986.03	1.96	1.96	0	---	---	0.00	0.00
89D-R	1	987.11	2.88	2.88	0	---	---	0.00	0.00
90A	1	988.07	2.82	2.82	0	---	---	0.00	0.00
90B	1	989.10	5.07	5.07	0	---	---	0.00	0.00
95A	1	987.18	5.62	5.62	0	---	---	0.00	0.00
95B-R	1	986.24	4.65	4.65	0	---	---	0.00	0.00
111A-R	1	997.35	12.12	12.12	0	---	---	0.00	0.00
114A	1	986.16	4.71	4.71	0	---	---	0.00	0.00
115A	1	988.53	5.90	5.90	0	---	---	0.00	0.00
115B	1	990.90	9.11	9.11	0	---	---	0.00	0.00
GMA3-2	1	991.94	5.85	5.85	0	---	---	0.00	0.00
GMA3-3	1	990.45	0.6	0.60	0	---	---	0.00	0.00

Table 5
Groundwater Elevation and LNAPL Monitoring/Recovery Data Summary

Groundwater Quality and NAPL Monitoring Interim Report For Spring 2007
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)
GMA3-4	1	994.60	5.71	5.71	0	---	---	0.00	0.00
GMA3-5	1	993.67	6.32	6.32	0	---	---	0.00	0.00
GMA3-6	1	997.49	15.31	15.31	0	---	---	0.00	0.00
GMA3-7	2	1000.17	12.03	13.21	0	---	---	0.00	0.00
GMA3-8	1	996.24	8.76	8.76	0	---	---	0.00	0.00
GMA3-9	1	992.39	3.45	3.45	0	---	---	0.00	0.00
GMA3-10	26	997.54	10.2	11.95	26	0.07	0.85	4.05	1.07
GMA3-11	6	997.25	9.2	11.05	1	0.09	0.09	0.00	0.00
GMA3-12	26	997.84	10.15	12.61	26	0.03	0.6	2.67	0.71
GMA3-13	26	997.73	10.11	11.99	26	0.03	0.45	2.30	0.61
GMA3-14	6	997.42	9.4	11.04	0	---	---	0.00	0.00
GMA3-15	2	996.74	9.94	10.94	0	---	---	0.00	0.00
GMA3-16	10	989.26	0.8	2.04	0	---	---	0.00	0.00
OBG-2	1	992.20	3.77	3.77	0	---	---	0.00	0.00
UB-MW-10	6	995.99	8.26	9.75	0	---	---	0.00	0.00
UB-PZ-3	6	998.15	10.5	12.57	5	0.15	0.25	0.22	0.06

Table 5
Groundwater Elevation and LNAPL Monitoring/Recovery Data Summary

Groundwater Quality and NAPL Monitoring Interim Report For Spring 2007
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)
GMA4 Monitoring Wells (Adjacent to GMA3)									
RF-14	1	1,001.59	6.61	6.61	0	---	---	0.00	0.00
GMA4-3	6	1,003.95	16.1	18.00	0	---	---	0.00	0.00
60B-R	1	1,002.79	13.65	13.65	0	---	---	0.00	0.00

Total amount of LNAPL Recovered - January 2007 through June 2007: 139.54 liters
36.86 gallons

Notes:

1. --- indicates LNAPL was not present in a measurable quantity
2. NA indicates information not available.
3. 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 wells.

Table 6
Field Parameter Measurements - Spring 2007

Groundwater Quality and NAPL Monitoring Interim Report For Spring 2007
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)
2A	16	11.02	7.65	0.417	-34.4	0.24
16A	16	11.89	7.90	6.124	-159.2	0.16
16B-R	6	10.99	3.50	1.829	55.0	1.67
16C-R	1	11.75	6.95	0.251	54.0	1.46
39B-R	1	8.66	9.15	616.3	84.0	0.00
39D-R	2	12.64	8.85	0.317	12.7	2.93
39E	2	11.73	6.22	0.274	87.3	2.80
43A	6	15.68	7.25	1.049	-94.9	0.26
43B	2	10.40	7.93	1.148	-112.4	3.02
89A	26	17.04	7.92	1.972	-210.4	1.56
89B	3	15.03	7.06	0.787	-63.0	1.99
89D-R	2	10.62	8.46	2.521	-115.9	0.23
90A	5	10.08	4.33	0.387	-69.4	0.50
90B	1	7.34	8.65	0.273	58.2	4.34
95A	10	14.59	6.41	0.284	-120.8	0.18
95B-R	3	10.01	7.63	1.026	-103.9	3.02
111A-R	8	13.92	8.99	506.1	197.1	0.04
111B-R	4	12.90	7.51	0.692	224.9	7.38
114A	19	16.22	8.80	0.261	-216.7	2.10
114B-R	3	12.85	5.58	0.962	0.5	0.24
115A	9	11.54	8.19	0.297	-281.9	2.90

Table 6
Field Parameter Measurements - Spring 2007

Groundwater Quality and NAPL Monitoring Interim Report For Spring 2007
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)
115B	3	8.52	5.90	0.529	48.9	0.86

Notes:

1. Measurements collected during spring 2007 GMA 3 baseline monitoring program sampling activities conducted between May 5 and 8, 2007
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 7
Comparison of Groundwater Analytical Results to MCP Method 1 GW-2 Standards

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
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 05/08/07
Volatile Organics		
Acetone	50	0.0072 J [0.0035 J]
Benzene	2	0.0014 [0.0012]
Chlorobenzene	0.2	0.0051 J [0.0024 J]
Total VOCs	5	0.014 J [0.0071 J]

Notes:
1. Samples were collected by ARCADIS BBL, and submitted to SGS Environmental Services, Inc. for analysis of volatiles, selected semivolatiles and natural attenuation parameters.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS BBL (approved March 15, 2007 and re-submitted March 30, 2007).
3. Only volatiles are presented for the MCP Method 1 GW-2 Standards Comparison.
4. Only detected volatiles are summarized.
5. Field duplicate sample results are presented in brackets.
6. Total VOCs are being compared to the notification level in the SOW of 5 ppm, as there is no GW-2 Standard for Total VOCs.

Data Qualifiers:
Organics (volatiles)
J - Indicates that the associated numerical value is an estimated concentration.

Table 8
Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standards

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Compnay - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	89B 05/09/07	90B 05/08/07	95B-R 05/10/07	111B-R 05/08/07	114B-R 05/10/07
Volatile Organics						
Benzene	10	0.017	0.00027 J	2.3	0.00038 J	0.10
Chlorobenzene	1	0.15	0.0017	9.7	0.0020 J	2.0
Vinyl Chloride	50	ND(0.0050)	ND(0.0010)	ND(0.40)	ND(0.0010)	0.11
Semivolatile Organics						
2-Chlorophenol	40	ND(0.010)	NA	0.0090 J	NA	NA
4-Chlorophenol	Not Listed	ND(0.010) J	NA	0.020 J	NA	NA

Notes:

1. Samples were collected by ARCADIS BBL, and submitted to SGS Environmental Services, Inc. for analysis of volatiles, selected semivolatiles and Natural Attenuation Parameters.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS BBL (approved March 15, 2007 and re-submitted March 30, 2007).
3. NA - Not Analyzed.
4. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.
5. Only those constituents detected in one or more samples are summarized.
6. Shading indicates that value exceeds GW-3 Standards.

Data Qualifiers:
Organics (volatiles, semivolatiles)
J - Indicates that the associated numerical value is an estimated concentration.

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

Table 9
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Compnay - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	MCP UCL for GroundWater	2A 05/14/07	16A 05/07/07	16B-R 05/08/07	16C-R 05/07/07
Volatile Organics					
1,4-Dioxane	Not Listed	ND(800) J	ND(80) J	ND(0.10) J [ND(0.10) J]	ND(0.10) J
Acetone	100	ND(40) J	ND(4.0) J	0.0072 J [0.0035 J]	ND(0.0050) J
Benzene	100	38	15	0.0014 [0.0012]	0.0027
Chlorobenzene	10	170	40	0.0051 J [0.0024 J]	0.015
Chloromethane	Not Listed	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Ethylbenzene	100	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Toluene	80	6.6 J	0.84	ND(0.0010) [ND(0.0010)]	0.00023 J
Trichloroethene	50	14	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Vinyl Chloride	100	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Xylenes (total)	100	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Semivolatile Organics					
2-Chlorophenol	100	ND(0.010)	0.028 J	NA	NA
4-Chlorophenol	Not Listed	ND(0.010) J	ND(0.050) J	NA	NA

Table 9
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Compnay - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	MCP UCL for GroundWater	39B-R 05/07/07	39D-R 05/14/07	39E 05/14/07	43A 05/09/07	43B 05/09/07
Volatile Organics						
1,4-Dioxane	Not Listed	ND(40) J	ND(0.10) J	ND(0.10) J	0.19 J	ND(0.10) J
Acetone	100	ND(2.0) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Benzene	100	0.66	ND(0.0010)	0.00031 J	ND(0.0010)	ND(0.0010)
Chlorobenzene	10	11	0.014	0.00051 J	ND(0.0010)	ND(0.0010)
Chloromethane	Not Listed	ND(0.40)	0.00046 J	0.00053 J	ND(0.0010)	0.00050 J
Ethylbenzene	100	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	80	0.10 J	ND(0.0010)	0.00067 J	0.00067 J	ND(0.0010)
Trichloroethene	50	0.092 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	100	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Xylenes (total)	100	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Semivolatile Organics						
2-Chlorophenol	100	ND(0.050)	NA	NA	NA	NA
4-Chlorophenol	Not Listed	ND(0.050) J	NA	NA	NA	NA

Table 9
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Compnay - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	MCP UCL for GroundWater	89A 05/09/07	89B 05/09/07	89D-R 05/09/07	90A 05/08/07	90B 05/08/07
Volatile Organics						
1,4-Dioxane	Not Listed	ND(8.0) J	ND(0.50) J	ND(80) J	ND(0.10) J	ND(0.10) J
Acetone	100	ND(0.40) J	ND(0.025) J	ND(4.0) J	ND(0.0050) J	ND(0.0050) J
Benzene	100	0.33	0.017	8.3	ND(0.0010)	0.00027 J
Chlorobenzene	10	2.5	0.15	31	0.0011	0.0017
Chloromethane	Not Listed	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Ethylbenzene	100	0.076 J	ND(0.0050)	0.75 J	ND(0.0010)	ND(0.0010)
Toluene	80	ND(0.080)	ND(0.0050)	0.54 J	ND(0.0010)	ND(0.0010)
Trichloroethene	50	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	100	ND(0.080)	ND(0.0050)	0.98	ND(0.0010)	ND(0.0010)
Xylenes (total)	100	0.056 J	ND(0.0050)	1.9	ND(0.0010)	ND(0.0010)
Semivolatile Organics						
2-Chlorophenol	100	0.0072 J	ND(0.010)	NA	NA	NA
4-Chlorophenol	Not Listed	ND(0.010) J	ND(0.010) J	NA	NA	NA

Table 9
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Compnay - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	MCP UCL for GroundWater	95A 05/10/07	95B-R 05/10/07	111A-R 05/07/07	111B-R 05/08/07
Volatile Organics					
1,4-Dioxane	Not Listed	ND(0.10) J [ND(0.10) J]	ND(40) J	ND(0.10) J	ND(0.10) J
Acetone	100	ND(0.0050) J [ND(0.0050) J]	ND(2.0) J	ND(0.0050) J	ND(0.0050) J
Benzene	100	ND(0.0010) [ND(0.0010)]	2.3	ND(0.0010)	0.00038 J
Chlorobenzene	10	ND(0.0010) [ND(0.0010)]	9.7	ND(0.0010)	0.0020 J
Chloromethane	Not Listed	0.00049 J [0.00063 J]	ND(0.40)	ND(0.0010)	ND(0.0010)
Ethylbenzene	100	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Toluene	80	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Trichloroethene	50	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	100	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Xylenes (total)	100	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Semivolatile Organics					
2-Chlorophenol	100	ND(0.010) [ND(0.010)]	0.0090 J	NA	NA
4-Chlorophenol	Not Listed	ND(0.010) J [ND(0.010) J]	0.020 J	NA	NA

Table 9
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Compnay - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	MCP UCL for GroundWater	114A 05/10/07	114B-R 05/10/07	115A 05/14/07	115B 05/14/07
Volatile Organics					
1,4-Dioxane	Not Listed	ND(0.10) J	ND(8.0) J	ND(0.10) J	ND(0.10) J
Acetone	100	ND(0.0050) J	ND(0.40) J	ND(0.0050) J	ND(0.0050) J
Benzene	100	ND(0.0010)	0.10	ND(0.0010)	ND(0.0010)
Chlorobenzene	10	ND(0.0010)	2.0	ND(0.0010)	ND(0.0010)
Chloromethane	Not Listed	0.00070 J	ND(0.080)	0.00040 J	0.00055 J
Ethylbenzene	100	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Toluene	80	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Trichloroethene	50	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	100	ND(0.0010)	0.11	ND(0.0010)	ND(0.0010)
Xylenes (total)	100	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Semivolatile Organics					
2-Chlorophenol	100	NA	NA	NA	NA
4-Chlorophenol	Not Listed	NA	NA	NA	NA

Notes:
1. Samples were collected by ARCADIS BBL, and submitted to SGS Environmental Services, Inc. for analysis of volatiles, selected semivolatiles and Natural Attenuation Parameters.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS BBL (approved March 15, 2007 and re-submitted March 30, 2007).
3. NA - Not Analyzed.
4. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.
5. Only those constituents detected in one or more samples are summarized.
6. Field duplicate sample results are presented in brackets.
7. Shading indicates that value exceeds UCL Standards.

Data Qualifiers:

Organics (volatiles, semivolatiles)
J - Indicates that the associated numerical value is an estimated concentration.

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

Table 10
Natural Attenuation Parameter Analytical Results

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	2A 05/14/07	16A 05/07/07	16B-R 05/08/07	16C-R 05/07/07	39B-R 05/07/07
Volatile Organics					
1,4-Dioxane	ND(800) J	ND(80) J	ND(0.10) J [ND(0.10) J]	ND(0.10) J	ND(40) J
Acetone	ND(40) J	ND(4.0) J	0.0072 J [0.0035 J]	ND(0.0050) J	ND(2.0) J
Benzene	38	15	0.0014 [0.0012]	0.0027	0.66
Chlorobenzene	170	40	0.0051 J [0.0024 J]	0.015	11
Chloromethane	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.40)
Ethylbenzene	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.40)
Toluene	6.6 J	0.84	ND(0.0010) [ND(0.0010)]	0.00023 J	0.10 J
Trichloroethene	14	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	0.092 J
Vinyl Chloride	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.40)
Xylenes (total)	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.40)
Semivolatile Organics					
2-Chlorophenol	ND(0.010)	0.028 J	NA	NA	ND(0.050)
4-Chlorophenol	ND(0.010) J	ND(0.050) J	NA	NA	ND(0.050) J
Natural Attenuation Parameters					
Alkalinity	180	450	520 [530]	130	310
Chloride	10	1800	300 [280]	1.1	98
Dissolved Iron	ND(0.100) J	1.07	ND(0.100) [ND(0.100)]	ND(0.100)	0.0121 B
Dissolved Organic Carbon	3.80	36.0	6.80 [6.80]	ND(1.00)	6.50
Ethane	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.040)]	ND(0.020)	ND(0.020)
Ethene	ND(0.020)	0.35	ND(0.020) [ND(0.040)]	ND(0.020)	ND(0.020)
Methane	ND(0.00720)	0.793	1.05 [1.13]	ND(0.00720)	0.162
Nitrate Nitrogen	ND(0.0500)	ND(0.0500)	ND(0.0500) [ND(0.0500)]	0.120	0.310
Nitrite Nitrogen	0.0760	ND(0.100)	ND(0.100) [ND(0.10) J]	ND(0.0100)	ND(0.0100)
Sulfate (turbidimetric)	25.0	ND(2.00)	14.0 [12.0]	6.40	7.30

Table 10
Natural Attenuation Parameter Analytical Results

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	39D-R 05/14/07	39E 05/14/07	43A 05/09/07	43B 05/09/07	89A 05/09/07	89B 05/09/07
Volatile Organics						
1,4-Dioxane	ND(0.10) J	ND(0.10) J	0.19 J	ND(0.10) J	ND(8.0) J	ND(0.50) J
Acetone	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.40) J	ND(0.025) J
Benzene	ND(0.0010)	0.00031 J	ND(0.0010)	ND(0.0010)	0.33	0.017
Chlorobenzene	0.014	0.00051 J	ND(0.0010)	ND(0.0010)	2.5	0.15
Chloromethane	0.00046 J	0.00053 J	ND(0.0010)	0.00050 J	ND(0.080)	ND(0.0050)
Ethylbenzene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.076 J	ND(0.0050)
Toluene	ND(0.0010)	0.00067 J	0.00067 J	ND(0.0010)	ND(0.080)	ND(0.0050)
Trichloroethene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.080)	ND(0.0050)
Vinyl Chloride	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.080)	ND(0.0050)
Xylenes (total)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.056 J	ND(0.0050)
Semivolatile Organics						
2-Chlorophenol	NA	NA	NA	NA	0.0072 J	ND(0.010)
4-Chlorophenol	NA	NA	NA	NA	ND(0.010) J	ND(0.010) J
Natural Attenuation Parameters						
Alkalinity	130	21.0	490	590	360	170
Chloride	5.5	170	25	59	440	140
Dissolved Iron	ND(0.100) J	0.0364 J	ND(0.100) J	ND(0.100) J	ND(0.100) J	ND(0.100) J
Dissolved Organic Carbon	ND(1.00)	2.00	1.80	2.50	5.60	2.60
Ethane	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.20)	ND(0.020)	ND(0.020)
Ethene	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.20)	ND(0.020)	ND(0.020)
Methane	ND(0.00720)	ND(0.00720)	0.0460	0.802	0.738	0.188
Nitrate Nitrogen	ND(0.0500)	0.670	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Nitrite Nitrogen	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.100)	ND(0.0100)
Sulfate (turbidimetric)	22.0	4.80	93.0	ND(2.00)	ND(2.00)	7.50

Table 10
Natural Attenuation Parameter Analytical Results

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	89D-R 05/09/07	90A 05/08/07	90B 05/08/07	95A 05/10/07	95B-R 05/10/07
Volatile Organics					
1,4-Dioxane	ND(80) J	ND(0.10) J	ND(0.10) J	ND(0.10) J [ND(0.10) J]	ND(40) J
Acetone	ND(4.0) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J [ND(0.0050) J]	ND(2.0) J
Benzene	8.3	ND(0.0010)	0.00027 J	ND(0.0010) [ND(0.0010)]	2.3
Chlorobenzene	31	0.0011	0.0017	ND(0.0010) [ND(0.0010)]	9.7
Chloromethane	ND(0.80)	ND(0.0010)	ND(0.0010)	0.00049 J [0.00063 J]	ND(0.40)
Ethylbenzene	0.75 J	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.40)
Toluene	0.54 J	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.40)
Trichloroethene	ND(0.80)	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.40)
Vinyl Chloride	0.98	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.40)
Xylenes (total)	1.9	ND(0.0010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.40)
Semivolatile Organics					
2-Chlorophenol	NA	NA	NA	ND(0.010) [ND(0.010)]	0.0090 J
4-Chlorophenol	NA	NA	NA	ND(0.010) J [ND(0.010) J]	0.020 J
Natural Attenuation Parameters					
Alkalinity	330	160	130	130 [130]	260
Chloride	630	9.3	8.0	1.4 [1.4]	140
Dissolved Iron	ND(0.100) J	0.0670 B	3.62	ND(0.100) J [ND(0.100) J]	ND(0.100) J
Dissolved Organic Carbon	9.20	ND(1.00)	4.80	ND(1.00) [ND(1.00)]	4.30
Ethane	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]	0.051
Ethene	0.80	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.020)]	0.044
Methane	1.06	0.108	0.0830	0.134 [0.0880]	1.57
Nitrate Nitrogen	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500) [ND(0.0500)]	ND(0.0500)
Nitrite Nitrogen	ND(0.100)	ND(0.0100)	ND(0.0100)	ND(0.0100) [ND(0.0100)]	ND(0.100)
Sulfate (turbidimetric)	2.80	21.0	2.00	4.40 [4.20]	3.80

Table 10
Natural Attenuation Parameter Analytical Results

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	111A-R 05/07/07	111B-R 05/08/07	114A 05/10/07	114B-R 05/10/07	115A 05/14/07	115B 05/14/07
Volatile Organics						
1,4-Dioxane	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(8.0) J	ND(0.10) J	ND(0.10) J
Acetone	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.40) J	ND(0.0050) J	ND(0.0050) J
Benzene	ND(0.0010)	0.00038 J	ND(0.0010)	0.10	ND(0.0010)	ND(0.0010)
Chlorobenzene	ND(0.0010)	0.0020 J	ND(0.0010)	2.0	ND(0.0010)	ND(0.0010)
Chloromethane	ND(0.0010)	ND(0.0010)	0.00070 J	ND(0.080)	0.00040 J	0.00055 J
Ethylbenzene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Toluene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Trichloroethene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.11	ND(0.0010)	ND(0.0010)
Xylenes (total)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Semivolatile Organics						
2-Chlorophenol	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters						
Alkalinity	140	150	130	210	160	250
Chloride	92	11	3.8	170	1.2	13
Dissolved Iron	0.0101 B	ND(0.100)	0.0434 J	ND(0.100) J	ND(0.100) J	ND(0.100) J
Dissolved Organic Carbon	1.20	1.10	1.20	2.50	ND(1.00)	ND(1.00)
Ethane	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Ethene	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Methane	ND(0.00720)	ND(0.00720)	0.285	0.205	ND(0.00720)	ND(0.00720)
Nitrate Nitrogen	ND(0.0500)	5.90	ND(0.0500)	ND(0.0500)	ND(0.0500)	0.110
Nitrite Nitrogen	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0500)	ND(0.0100)	ND(0.0100)
Sulfate (turbidimetric)	71.0	190	3.40	12.0	4.20	14.0

Notes:
1. Samples were collected by ARCADIS BBL, and submitted to SGS Environmental Services, Inc. for analysis of volatiles, selected semivolatiles and natural attenuation parameters.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS BBL (approved March 15, 2007 and re-submitted March 30, 2007).
3. NA - Not Analyzed.
4. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.
5. Only those constituents detected in one or more samples are summarized.
6. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, semivolatiles)
J - Indicates that the associated numerical value is an estimated concentration.

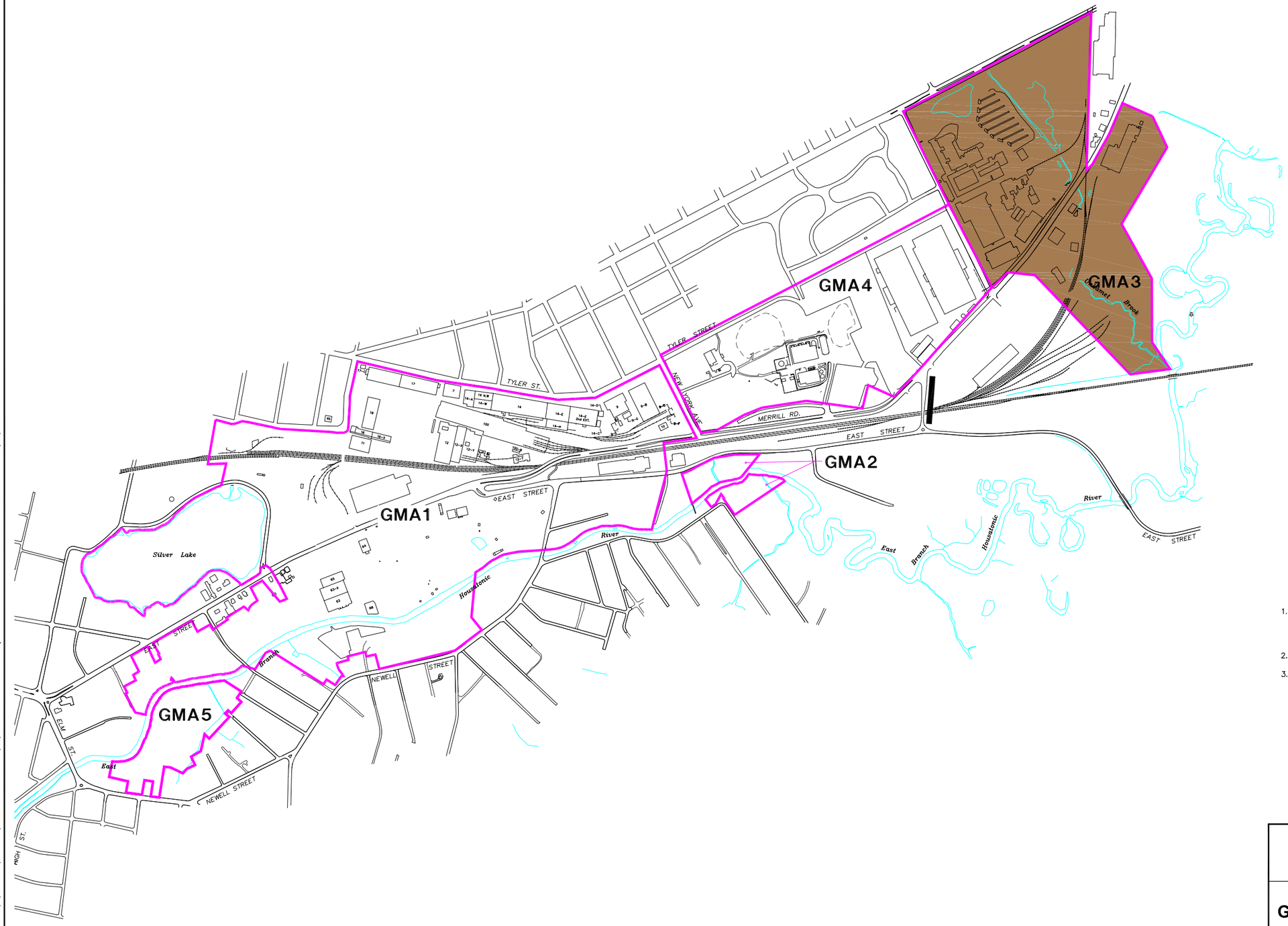
Natural Attenuation Parameters
B - Indicates an estimated value between the instrument detection limit (IDL) and (PQL).
J - Indicates that the associated numerical value is an estimated concentration.

Table 11
Fall 2007 Interim Groundwater Quality Monitoring Activities

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Well Number	Well Designation / Analytical Category	Analyses	Comments
6B-R	GW-3 Perimeter	VOC	
51-14	GW-2 Sentinel	VOC	
82B-R	GW-3 Perimeter	PCB	
114A	Natural Attenuation	PCB (filtered samples only)	Interim sampling for PCBs to be added in fall 2007.
114B-R	GW-3 Perimeter/Natural Attenuation	PCB (filtered samples only)	

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.

0 500' 1000'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 3 INTERIM MONITORING PROGRAM

GROUNDWATER MANAGEMENT AREAS

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE
1

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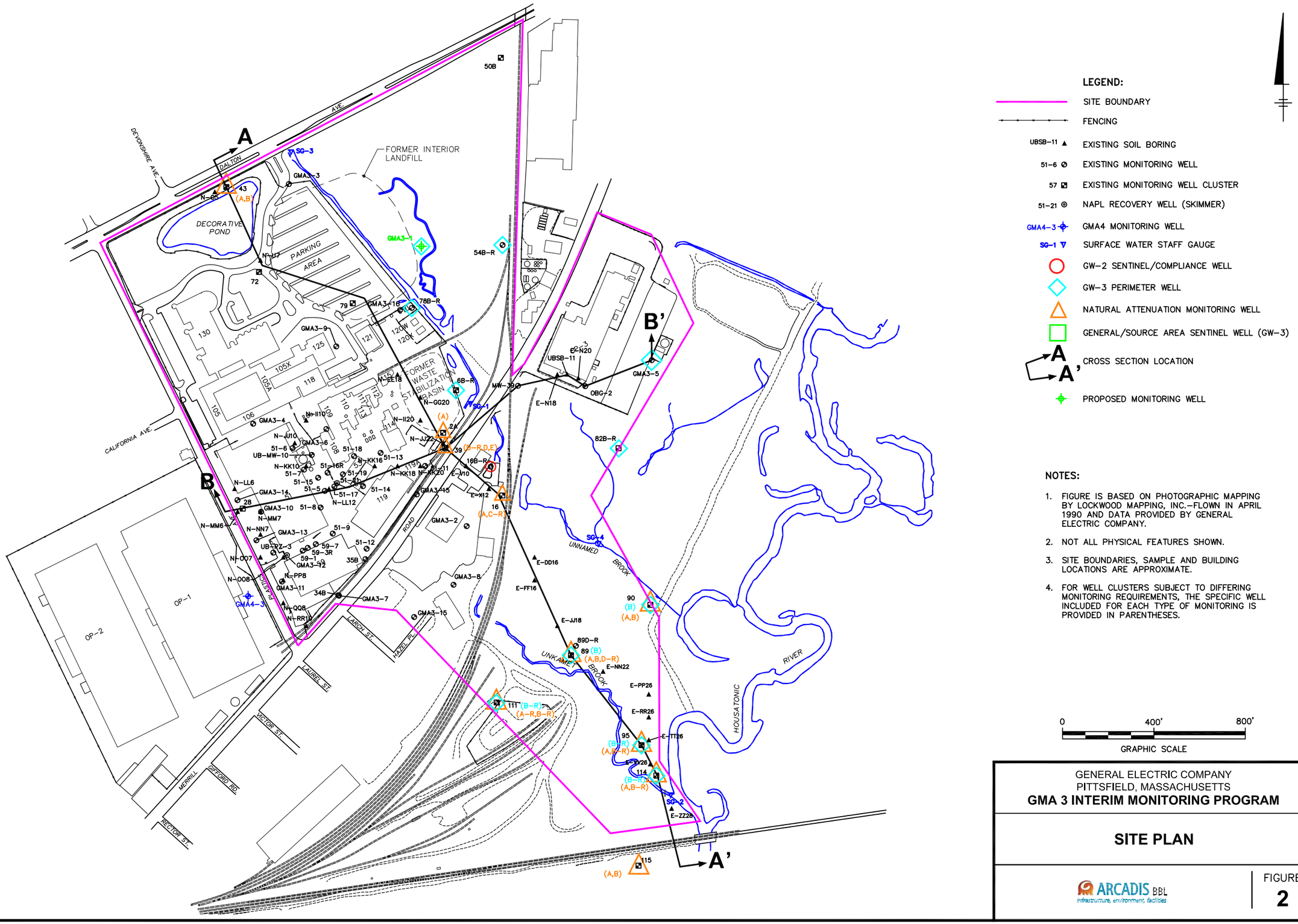


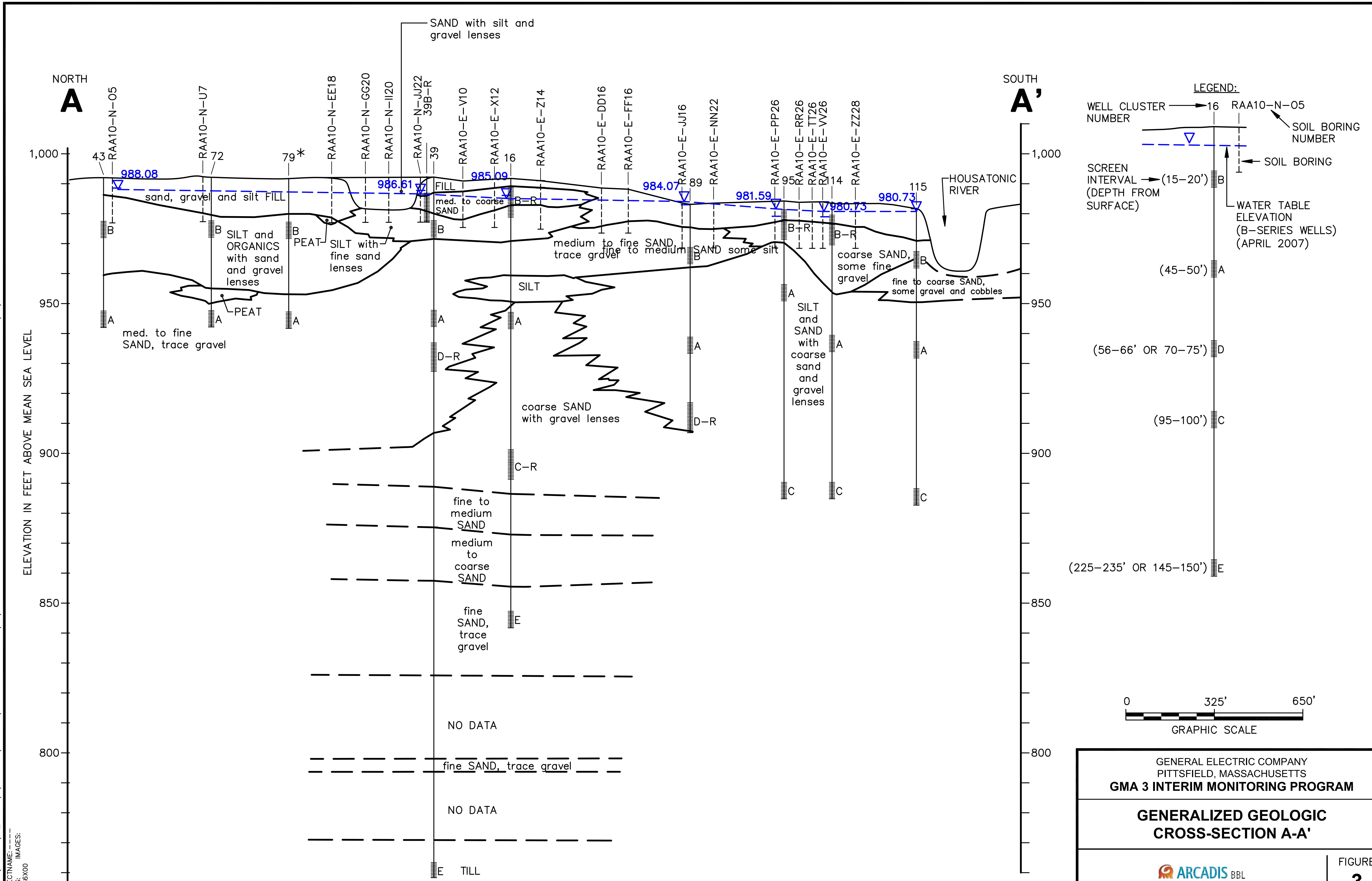
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

GMA 3 INTERIM MONITORING PROGRAM

SITE PLAN

ARCADIS BBL
infrastructure, environment, facilities

FIGURE
2


NORTH
A
SOUTH
A'
ELEVATION IN FEET ABOVE MEAN SEA LEVEL
1,000
950
900
850
800
RAA10-N-05
RAA10-N-U7
RAA10-N-EE18
RAA10-N-GG20
RAA10-N-II20
RAA10-N-JJ22
39B-R
RAA10-E-V10
RAA10-E-X12
RAA10-E-Z14
RAA10-E-DD16
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RAA10-E-NN22
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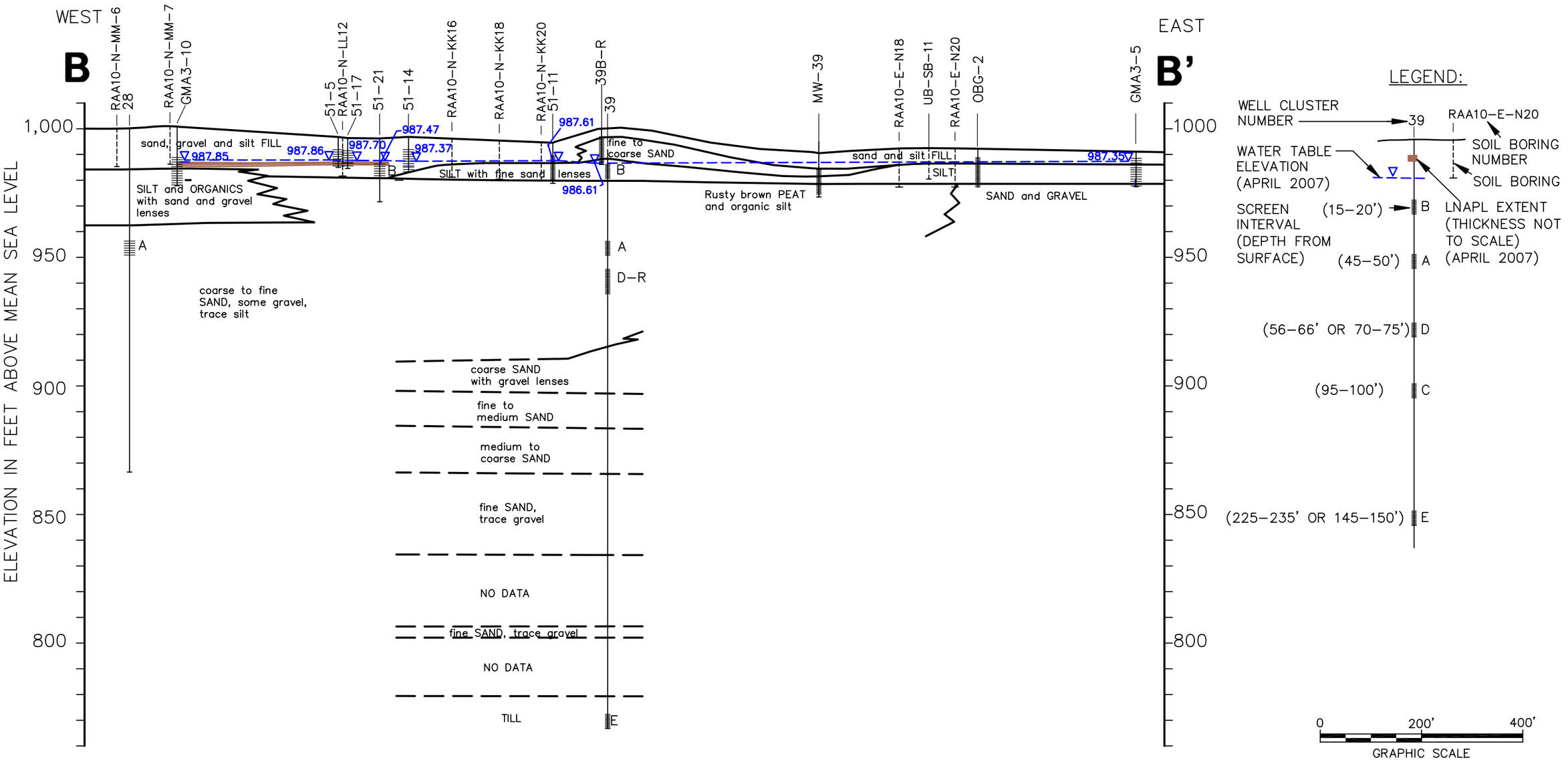
RAA10-E-RR26
RAA10-E-TT26
RAA10-E-VV26
RAA10-E-ZZ28
43
72
79*
39
16
89
95
114
115
988.08
986.61
985.09
984.07
981.59
980.73
SAND with silt and gravel lenses
sand, gravel and silt FILL
FILL
med. to coarse SAND
SILT and ORGANICS with sand and gravel lenses
PEAT
SILT with fine sand lenses
medium to fine SAND, trace gravel
fine to medium SAND some silt
coarse SAND, some fine gravel
fine to coarse SAND, some gravel and cobbles
HOUSATONIC RIVER
SILT
med. to fine SAND, trace gravel
SILT and SAND with coarse sand and gravel lenses
coarse SAND with gravel lenses
fine to medium SAND
medium to coarse SAND
fine SAND, trace gravel
NO DATA
fine SAND, trace gravel
NO DATA
TILL
B
A
D-R
C-R
E
B-R
C
LEGEND:
WELL CLUSTER NUMBER
SOIL BORING NUMBER
SOIL BORING
SCREEN INTERVAL (DEPTH FROM SURFACE)
WATER TABLE ELEVATION (B-SERIES WELLS) (APRIL 2007)
(15–20')
(45–50')
(56–66' OR 70–75')
(95–100')
(225–235' OR 145–150')
0
325'
650'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 3 INTERIM MONITORING PROGRAM

GENERALIZED GEOLOGIC CROSS-SECTION A-A'

ARCADIS BBL
infrastructure, environment, facilities

FIGURE
3



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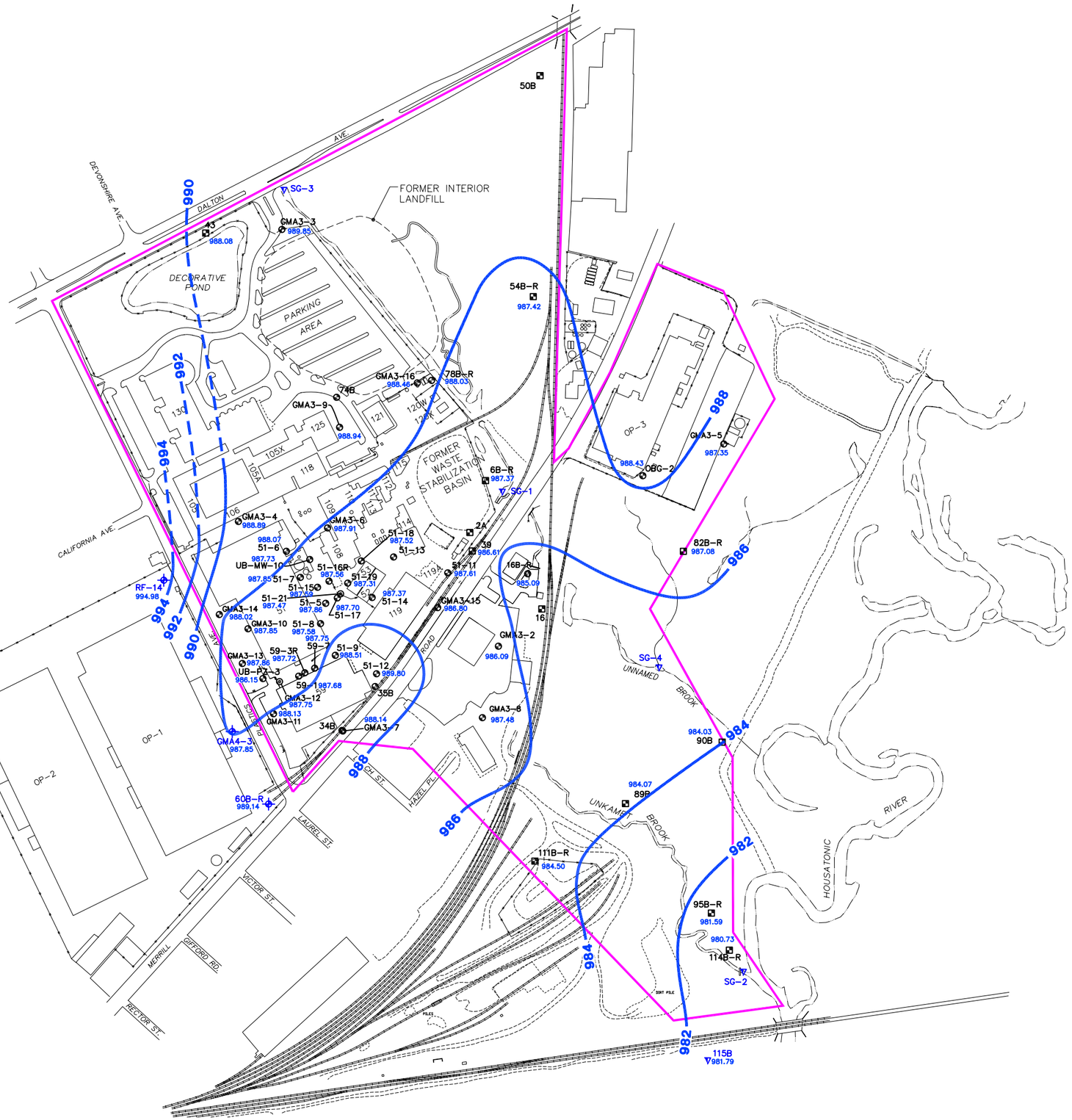
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 3 INTERIM MONITORING PROGRAM

GENERALIZED GEOLOGIC CROSS-SECTION B-B'

ARCADIS BBL
infrastructure, environment, facilities

FIGURE
4



LEGEND:

- SITE BOUNDARY
- FENCING
- 51–14 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
- 986 GROUNDWATER ELEVATION CONTOUR IN FEET (DASHED WHERE INFERRED)
- 986.61 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.
5. GROUNDWATER ELEVATION DATA FROM WELL GMA3–6 WAS CONSIDERED ANOMALOUS AND NOT UTILIZED IN CONTOUR PREPARATION.

0 400' 800'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 3 INTERIM MONITORING PROGRAM

GROUNDWATER ELEVATION CONTOUR MAP - SPRING 2007

ARCADIS BBL
infrastructure, environment, facilities

FIGURE **5**

SYR-85-RCB PCL DMW LAYER: ON=*; OFF=REF
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20186X00

LEGEND:

- SITE BOUNDARY
- FENCING
- 57 EXISTING MONITORING WELL CLUSTER
- 51-6 EXISTING MONITORING WELL
- 51-21 NAPL RECOVERY WELL (SKIMMER)
- GMA4-3 GMA4 MONITORING WELL
- MAXIMUM EXTENT OF MEASURABLE LNAPL
- MAXIMUM EXTENT OF MEASURABLE DNAPL

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 INTERIM MONITORING PROGRAM

HISTORICAL EXTENT OF NAPL

ARCADIS BBL
infrastructure, environment, facilities

FIGURE
6

SYR_85_PGL AMS DMW LAYER: ON=*; OFF=*REF*
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20186X00

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)
- GMA4–3 ⊕ GMA4 MONITORING WELL
- SG–1 ▽ SURFACE WATER STAFF GAUGE
- EXTENT OF MEASURABLE LNAPL DURING SPRING 2007 SEMI–ANNUAL MONITORING EVENT
- EXTENT OF MEASURABLE DNAPL DURING SPRING 2007 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.

0 400' 800'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

GMA 3 INTERIM MONITORING PROGRAM

EXTENT OF NAPL - SPRING 2007 MONITORING EVENT

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE **7**

SYR–85–DWK AMS DWK LAYER: ON=*; OFF=REF
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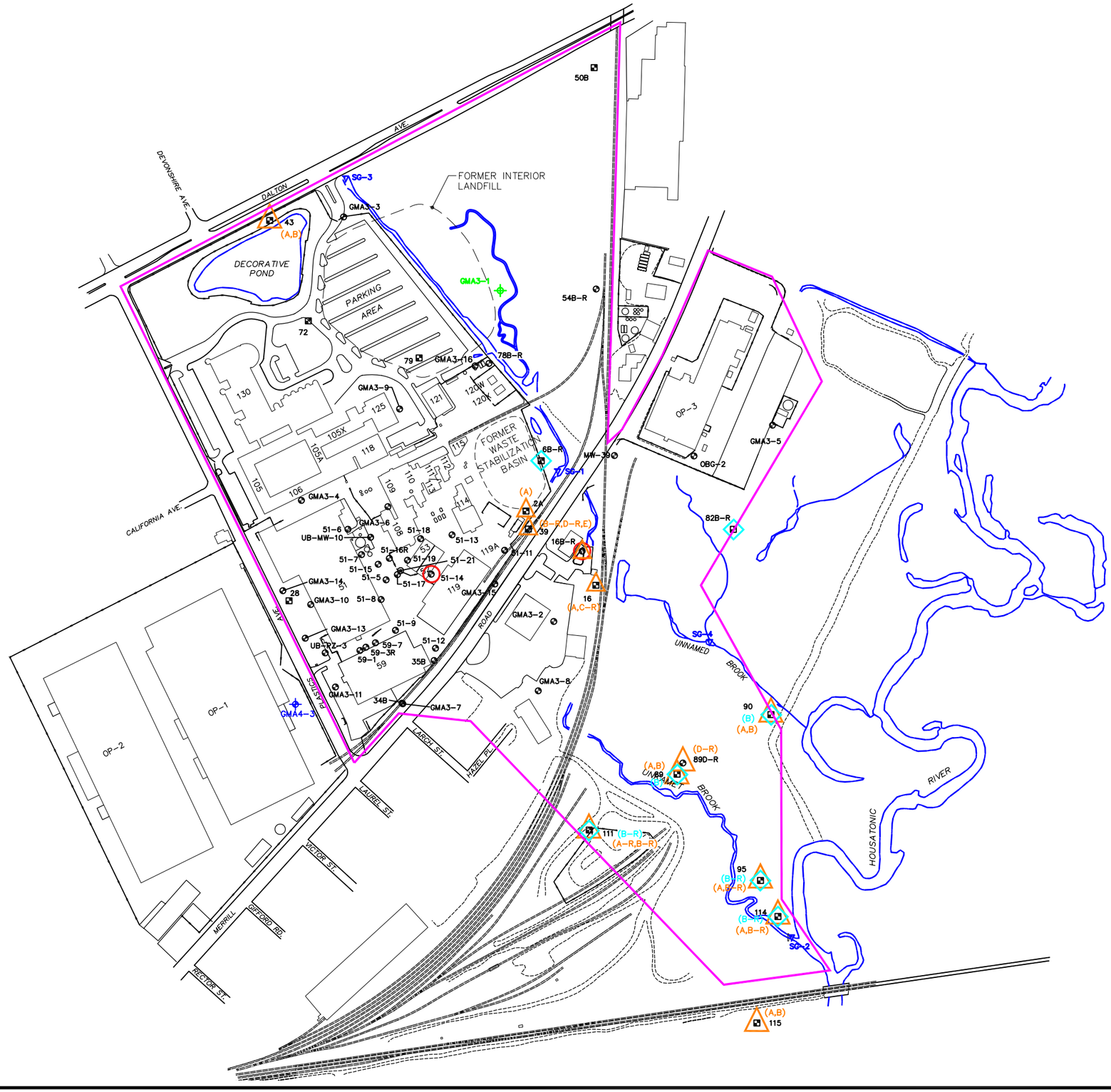


LEGEND:

- SITE BOUNDARY
- FENCING
- 51-6 EXISTING MONITORING WELL
- 57 EXISTING MONITORING WELL CLUSTER
- 51-21 NAPL RECOVERY WELL (SKIMMER)
- GMA4-3 GMA4 MONITORING WELL
- SG-1 SURFACE WATER STAFF GAUGE
- GW-2 SENTINEL/COMPLIANCE WELL
- GW-3 PERIMETER WELL
- NATURAL ATTENUATION MONITORING WELL
- GMA3-15 PROPOSED MONITORING WELL

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.
5. ALL SAMPLING WILL BE CONDUCTED ON AN ANNUAL BASIS WITH NATURAL ATTENUATION SAMPLED EACH SPRING. ALL OTHER WELLS WILL BE SAMPLED, ALTERNATING SPRING/FALL.

0 400' 800'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 3 INTERIM MONITORING PROGRAM

PROPOSED INTERIM GROUNDWATER MONITORING PROGRAM

ARCADIS BBL
infrastructure, environment, facilities

FIGURE
8

SYR-85-RCB KEW DWG LAYER: ON=*; OFF=*REF*
G:\CAD\GE-CAD\GE_ACTIVE\W\20186002\SPRING07\20186G06.DWG SAVED: 8/27/2007 11:16 AM LAYOUT:Layout1 PAGESETUP:----- PENTABLE:PLTFULL.CTB PRINTED: 8/27/2007 11:37 AM BY:DWODARCZYK
PROJECTNAME: -----
XREFS: IMAGES:
20186X02
20186X00

Appendices

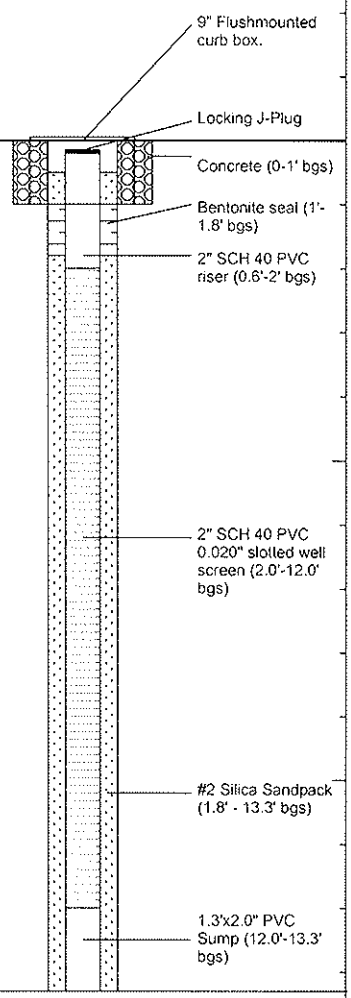
ARCADIS BBL

Appendix A

Groundwater Monitoring Well Log

Date Start/Finish: 4/03/07 **Drilling Company:** ABBL **Driller's Name:** D. Richmond/R. Fisk **Drilling Method:** HSA **Bit Size:** 6-1/4" OD **Auger Size:** 4-1/4" ID **Rig Type:** CME 55 **Sampling Method:** 2' x 2" Split Spoon	**Northing:** 537542.70 **Easting:** 138665 **Casing Elevation:** 989.26 **Borehole Depth:** 13.3' Below Grade **Surface Elevation:** 989.80 **Geologist:** Dave Cornell	**Well/Boring ID:** GMA3-16 **Client:** General Electric Company **Location:** GMA 3, Merrill Ave. Pittsfield Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	Blows / 6 Inches	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
990 / 0							ASPHALT
							SUBSTRATE
	1	2-4	1.8	7 7 12 10	0.7		Brown fine to medium SAND, some fine to coarse subangular Gravel, blue green in color with a faint odor and sheen, non-plastic, saturated.
							WOOD (root)
985 / 5	2	4-6	0.5	5 24 1 3	3.5		Brown fine to medium SAND, blue-black in color, faint odor and sheen, non-plastic, saturated.
	3	6-8	1.4	4 3 5 2	24.2		Gray to dark gray fine to medium SAND, some subangular Gravel, trave Silt, moderate odor, non plastic, saturated.
	4	8-10	1.3	WOR 2 1 2	16.6		Gray to dark gray fine to medium SAND, little Gravel, faint odor, non-plastic, saturated.
980 / 10	5	10-12	1.8	3 5 2 1	14.5		Gray fine to medium SAND, trace to little fine to coarse subangular Gravel, strong odor, trace NAPL.
							Brown PEAT.
975 / 15							



Well/Boring Construction

Remarks: NA = Not Applicable/Available; bgs = below ground surface; HSA = Hollow Stem Auger

ARCADIS BBL
Infrastructure, environment, facilities

ARCADIS BBL

Appendix B

Groundwater Elevation and NAPL Monitoring/Recovery Data

Table B-1
Groundwater Elevation and Monitoring Recovery/Data
January 2007 - June 2007

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)	LNAPL Removed (Liters)	DNAPL Removed (Liters)
006B-R	993.62	4/26/2007	6.25	---	0.00	---	14.59	0.00	987.37	---	---
016A	991.77	4/26/2007	5.91	---	0.00	---	50.95	0.00	985.86	---	---
016B-R	994.87	4/26/2007	9.78	---	0.00	---	16.23	0.00	985.09	---	---
016C-R	993.23	4/26/2007	6.77	---	0.00	---	102.10	0.00	986.46	---	---
039B-R	991.97	4/26/2007	5.36	---	0.00	---	13.82	0.00	986.61	---	---
039D-R	994.73	4/26/2007	7.60	---	0.00	---	63.35	0.00	987.13	---	---
039E	992.21	4/26/2007	4.43	---	0.00	---	>202.00	0.00	987.78	---	---
043A	993.79	4/26/2007	5.09	---	0.00	---	51.28	0.00	988.70	---	---
043B	993.61	4/26/2007	5.53	---	0.00	---	21.21	0.00	988.08	---	---
054B-R	991.49	4/26/2007	4.07	---	0.00	---	15.50	0.00	987.42	---	---
078B-R	988.83	2/27/2007	Well Buried Under Ice & Snow		NA	---	---	NA	NA	---	---
078B-R	988.83	3/27/2007	Submerged under water		NA	---	---	NA	NA	---	---
078B-R	988.83	4/26/2007	0.80	---	0.00	---	11.70	0.00	988.03	---	---
078B-R	988.83	5/29/2007	1.60	---	0.00	---	11.73	0.00	987.23	---	---
078B-R	988.83	6/26/2007	1.84	---	0.00	---	11.74	0.00	986.99	---	---
082B-R	989.90	4/26/2007	2.82	---	0.00	---	11.63	0.00	987.08	---	---
089A	985.76	4/27/2007	1.61	---	0.00	---	47.20	0.00	984.15	---	---
089B	986.03	4/27/2007	1.96	---	0.00	---	8.87	0.00	984.07	---	---
089D-R	987.11	4/26/2007	2.88	---	0.00	---	79.20	0.00	984.23	---	---
090A	988.07	4/26/2007	2.82	---	0.00	---	51.52	0.00	985.25	---	---
090B	989.10	4/26/2007	5.07	---	0.00	---	12.70	0.00	984.03	---	---
095A	987.18	4/26/2007	5.62	---	0.00	---	7.01	0.00	981.56	---	---
095B-R	986.24	4/27/2007	4.65	---	0.00	---	13.52	0.00	981.59	---	---
111A-R	997.35	4/26/2007	12.12	---	0.00	---	52.05	0.00	985.23	---	---
111B-R	997.48	4/26/2007	12.98	---	0.00	---	19.70	0.00	984.50	---	---
114A	986.16	4/26/2007	4.71	---	0.00	---	52.18	0.00	981.45	---	---
114B-R	985.54	4/26/2007	4.81	---	0.00	---	5.08	0.00	980.73	---	---
115A	988.53	4/26/2007	5.90	---	0.00	---	42.70	0.00	982.63	---	---
115B	990.90	4/26/2007	9.11	---	0.00	---	15.68	0.00	981.79	---	---
51-05	996.44	1/23/2007	10.20	---	0.00	---	11.60	0.00	986.24	---	---
51-05	996.44	2/27/2007	9.09	9.05	0.04	---	11.63	0.00	987.39	---	---
51-05	996.44	4/13/2007	8.60	8.58	0.02	---	11.30	0.00	987.86	0.012	---
51-05	996.44	5/29/2007	7.63	---	0.00	---	11.52	0.00	988.81	---	---
51-05	996.44	6/26/2007	10.30	---	0.00	---	14.35	0.00	986.14	---	---
51-06	997.36	1/23/2007	10.46	---	0.00	---	14.50	0.00	986.90	---	---
51-06	997.36	2/27/2007	11.60	---	0.00	---	14.45	0.00	985.76	---	---
51-06	997.36	3/27/2007	Ice Observed Inside PVC		NA	---	14.45	NA	NA	---	---

Table B-1
Groundwater Elevation and Monitoring Recovery/Data
January 2007 - June 2007

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Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)	LNAPL Removed (Liters)	DNAPL Removed (Liters)
51-06	997.36	4/13/2007	9.90	---	0.00	---	14.48	0.00	987.46	---	---
51-06	997.36	4/27/2007	9.29	---	0.00	---	14.45	0.00	988.07	---	---
51-06	997.36	5/29/2007	10.22	---	0.00	---	14.53	0.00	987.14	---	---
51-06	997.36	6/26/2007	10.80	---	0.00	---	14.50	0.00	986.56	---	---
51-07	997.08	1/23/2007	10.43	---	0.00	---	11.22	0.00	986.65	---	---
51-07	997.08	2/27/2007	Well Buried Under Ice & Snow		NA	---	---	NA	NA	---	---
51-07	997.08	3/27/2007	Buried Under Ice & Snow		NA	---	---	NA	NA	---	---
51-07	997.08	4/13/2007	9.90	---	0.00	---	11.22	0.00	987.18	---	---
51-07	997.08	4/27/2007	9.23	---	0.00	---	11.20	0.00	987.85	---	---
51-07	997.08	5/29/2007	10.22	---	0.00	---	11.24	0.00	986.86	---	---
51-07	997.08	6/26/2007	10.80	---	0.00	---	11.23	0.00	986.28	---	---
51-08	997.08	1/3/2007	11.80	10.90	0.90	---	14.65	0.00	986.12	0.555	---
51-08	997.08	1/10/2007	11.80	10.66	1.14	---	14.66	0.00	986.34	0.703	---
51-08	997.08	1/15/2007	10.80	10.60	0.20	---	14.65	0.00	986.47	---	---
51-08	997.08	1/23/2007	10.61	10.55	0.06	---	14.64	0.00	986.53	---	---
51-08	997.08	1/30/2007	10.86	10.75	0.11	---	14.65	0.00	986.32	---	---
51-08	997.08	2/6/2007	11.30	10.85	0.45	---	14.65	0.00	986.20	0.278	---
51-08	997.08	2/13/2007	11.95	11.07	0.88	---	14.65	0.00	985.95	0.543	---
51-08	997.08	2/21/2007	11.85	11.10	0.75	---	14.68	0.00	985.93	0.463	---
51-08	997.08	2/27/2007	12.54	11.30	1.24	---	14.68	0.00	985.69	0.765	---
51-08	997.08	3/7/2007	12.65	11.35	1.30	---	14.67	0.00	985.64	0.802	---
51-08	997.08	3/14/2007	12.35	11.20	1.15	---	14.63	0.00	985.80	0.709	---
51-08	997.08	3/20/2007	11.70	10.90	0.80	---	14.65	0.00	986.12	0.494	---
51-08	997.08	3/28/2007	11.60	10.35	1.25	---	14.66	0.00	986.64	0.771	---
51-08	997.08	4/3/2007	10.28	10.22	0.06	---	14.68	0.00	986.86	---	---
51-08	997.08	4/13/2007	10.14	10.11	0.03	---	14.65	0.00	986.97	0.019	---
51-08	997.08	4/18/2007	9.63	9.60	0.03	---	14.64	0.00	987.48	---	---
51-08	997.08	4/24/2007	9.53	9.50	0.03	---	14.64	0.00	987.58	---	---
51-08	997.08	5/2/2007	9.71	9.68	0.03	---	14.68	0.00	987.40	---	---
51-08	997.08	5/8/2007	9.83	9.80	0.03	---	14.64	0.00	987.28	---	---
51-08	997.08	5/15/2007	10.05	10.02	0.03	---	14.63	0.00	987.06	0.019	---
51-08	997.08	5/23/2007	10.29	10.26	0.03	---	14.64	0.00	986.82	---	---
51-08	997.08	5/29/2007	10.43	10.40	0.03	---	14.63	0.00	986.68	---	---
51-08	997.08	6/6/2007	10.54	10.50	0.04	---	14.64	0.00	986.58	---	---
51-08	997.08	6/13/2007	10.65	10.63	0.02	---	14.64	0.00	986.45	---	---
51-08	997.08	6/20/2007	10.84	10.81	0.03	---	14.64	0.00	986.27	---	---
51-08	997.08	6/26/2007	11.33	11.04	0.29	---	14.64	0.00	986.02	0.179	---

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Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)	LNAPL Removed (Liters)	DNAPL Removed (Liters)
51-09	997.70	1/23/2007	10.72	---	0.00	---	11.58	0.00	986.98	---	---
51-09	997.70	2/27/2007	Dry at 11.58 ft		NA	---	11.58	NA	<986.12	---	---
51-09	997.70	3/27/2007	9.75	---	0.00	---	11.58	0.00	987.95	---	---
51-09	997.70	4/27/2007	9.19	---	0.00	---	11.58	0.00	988.51	---	---
51-09	997.70	5/29/2007	10.00	---	0.00	---	11.60	0.00	987.70	---	---
51-11	994.37	1/23/2007	7.81	---	0.00	---	13.48	0.00	986.56	---	---
51-11	994.37	2/27/2007	9.20	---	0.00	---	13.54	0.00	985.17	---	---
51-11	994.37	3/27/2007	6.60	---	0.00	---	13.55	0.00	987.77	---	---
51-11	994.37	4/27/2007	6.76	---	0.00	---	13.48	0.00	987.61	---	---
51-11	994.37	5/29/2007	8.00	---	0.00	---	13.52	0.00	986.37	---	---
51-11	994.37	6/26/2007	8.65	---	0.00	---	13.55	0.00	985.72	---	---
51-12	996.55	1/23/2007	7.38	---	0.00	---	13.29	0.00	989.17	---	---
51-12	996.55	2/27/2007	Well Buried Under Ice & Snow		NA	---	---	NA	NA	---	---
51-12	996.55	3/27/2007	6.62	---	0.00	---	13.30	0.00	989.93	---	---
51-12	996.55	4/27/2007	6.75	---	0.00	---	13.31	0.00	989.80	---	---
51-12	996.55	5/29/2007	7.40	---	0.00	---	13.30	0.00	989.15	---	---
51-12	996.55	6/26/2007	7.60	---	0.00	---	13.32	0.00	988.95	---	---
51-13	997.42	1/23/2007	Dry at 9.80 feet		NA	---	9.90	NA	<987.62	---	---
51-13	997.42	2/27/2007	Dry at 9.80 ft		NA	---	9.80	NA	<987.62	---	---
51-13	997.42	3/27/2007	Dry at 9.83 ft		NA	---	9.80	NA	<987.59	---	---
51-13	997.42	4/27/2007	Dry		NA	---	9.81	NA	<987.59	---	---
51-13	997.42	5/29/2007	Dry at 9.81 ft		NA	---	9.81	NA	<987.61	---	---
51-13	997.42	6/26/2007	Dry at 9.80 feet		NA	---	9.81	NA	<987.62	---	---
51-14	996.77	1/23/2007	10.44	---	0.00	---	14.71	0.00	986.33	---	---
51-14	996.77	2/27/2007	11.30	---	0.00	---	14.78	0.00	985.47	---	---
51-14	996.77	3/27/2007	10.32	---	0.00	---	14.72	0.00	986.45	---	---
51-14	996.77	4/27/2007	9.40	---	0.00	---	14.72	0.00	987.37	---	---
51-14	996.77	5/29/2007	10.37	---	0.00	---	14.75	0.00	986.40	---	---
51-14	996.77	6/26/2007	11.02	---	0.00	---	14.73	0.00	985.75	---	---
51-15	996.43	1/23/2007	9.97	9.92	0.05	---	14.40	0.00	986.51	---	---
51-15	996.43	2/27/2007	10.75	10.70	0.05	---	14.40	0.00	985.73	---	---
51-15	996.43	4/13/2007	9.40	9.38	0.02	---	14.40	0.00	987.05	0.012	---
51-15	996.43	4/27/2007	8.84	---	0.00	---	14.37	0.00	987.59	---	---
51-15	996.43	5/29/2007	9.76	---	0.00	---	14.40	0.00	986.67	---	---
51-15	996.43	6/26/2007	10.25	---	0.00	---	11.40	0.00	986.18	---	---
51-16R	996.39	1/23/2007	9.90	9.89	0.01	---	14.55	0.00	986.50	---	---
51-16R	996.39	2/27/2007	10.85	10.65	0.20	---	14.55	0.00	985.73	---	---

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Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)	LNAPL Removed (Liters)	DNAPL Removed (Liters)
51-16R	996.39	4/13/2007	9.40	---	0.00	---	14.52	0.00	986.99	---	---
51-16R	996.39	4/27/2007	8.83	---	0.00	---	14.52	0.00	987.56	---	---
51-16R	996.39	5/29/2007	9.74	9.72	0.02	---	14.55	0.00	986.67	---	---
51-16R	996.39	6/26/2007	10.34	10.30	0.04	---	14.50	0.00	986.09	---	---
51-17	996.43	1/23/2007	10.50	9.65	0.85	---	14.50	0.00	986.72	0.524	---
51-17	996.43	2/27/2007	11.15	10.50	0.65	---	14.50	0.00	985.88	0.401	---
51-17	996.43	4/13/2007	10.20	9.18	1.02	---	14.46	0.00	987.18	0.629	---
51-17	996.43	4/27/2007	8.97	8.71	0.26	---	14.48	0.00	987.70	---	---
51-17	996.43	5/29/2007	9.82	9.63	0.19	---	14.50	0.00	986.79	---	---
51-17	996.43	6/26/2007	11.30	10.03	1.27	---	14.50	0.00	986.31	0.784	---
51-18	997.12	1/23/2007	10.60	---	0.00	---	12.58	0.00	986.52	---	---
51-18	997.12	2/27/2007	Well Buried Under Ice & Snow		NA	---	---	NA	NA	---	---
51-18	997.12	3/27/2007	10.60	---	0.00	---	12.60	0.00	986.52	---	---
51-18	997.12	4/27/2007	9.60	---	0.00	---	12.63	0.00	987.52	---	---
51-18	997.12	5/29/2007	10.55	---	0.00	---	12.58	0.00	986.57	---	---
51-18	997.12	6/26/2007	11.10	---	0.00	---	12.58	0.00	986.02	---	---
51-19	996.43	1/23/2007	10.43	10.40	0.03	---	14.08	0.00	986.03	---	---
51-19	996.43	2/27/2007	11.03	10.90	0.13	---	14.04	0.00	985.52	---	---
51-19	996.43	4/13/2007	9.70	9.62	0.08	---	14.06	0.00	986.80	0.049	---
51-19	996.43	4/27/2007	9.13	9.12	0.01	---	14.05	0.00	987.31	---	---
51-19	996.43	5/29/2007	10.12	10.04	0.08	---	14.10	0.00	986.38	---	---
51-19	996.43	6/26/2007	10.59	10.56	0.03	---	14.10	0.00	985.87	---	---
51-21	1001.49	1/3/2007	15.40	P	< 0.01	---	NM	0.00	986.09	4.164	---
51-21	1001.49	1/10/2007	15.10	P	< 0.01	---	NM	0.00	986.39	2.271	---
51-21	1001.49	1/16/2007	14.97	P	< 0.01	---	NM	0.00	986.52	3.407	---
51-21	1001.49	1/23/2007	15.03	P	< 0.01	---	NM	0.00	986.46	1.137	---
51-21	1001.49	1/31/2007	15.30	P	< 0.01	---	NM	0.00	986.19	2.08	---
51-21	1001.49	2/8/2007	16.02	P	< 0.01	---	NM	0.00	985.47	4.164	---
51-21	1001.49	2/16/2007	15.69	P	< 0.01	---	NM	0.00	985.80	6.246	---
51-21	1001.49	2/22/2007	15.80	P	< 0.01	---	NM	0.00	985.69	8.338	---
51-21	1001.49	2/28/2007	15.98	15.97	0.01	---	NM	0.00	985.52	10.410	---
51-21	1001.49	3/8/2007	16.90	16.89	0.01	---	NM	0.00	984.60	6.246	---
51-21	1001.49	3/13/2007	15.85	15.84	0.01	---	NM	0.00	985.65	16.656	---
51-21	1001.49	3/22/2007	15.39	P	< 0.01	---	NM	0.00	986.10	5.300	---
51-21	1001.49	3/30/2007	14.63	P	< 0.01	---	NM	0.00	986.86	3.142	---
51-21	1001.49	4/6/2007	14.45	P	< 0.01	---	NM	0.00	987.04	3.146	---
51-21	1001.49	4/11/2007	14.60	P	< 0.01	---	NM	0.00	986.89	2.085	---

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Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)	LNAPL Removed (Liters)	DNAPL Removed (Liters)
51-21	1001.49	4/19/2007	13.80	P	< 0.01	---	NM	0.00	987.69	5.224	---
51-21	1001.49	4/26/2007	14.02	P	< 0.01	---	NM	0.00	987.47	2.274	---
51-21	1001.49	5/3/2007	14.19	P	< 0.01	---	NM	0.00	987.30	5.11	---
51-21	1001.49	5/9/2007	14.32	P	< 0.01	---	NM	0.00	987.17	3.03	---
51-21	1001.49	5/15/2007	14.55	P	< 0.01	---	NM	0.00	986.94	3.03	---
51-21	1001.49	5/22/2007	14.70	P	< 0.01	---	NM	0.00	986.79	1.14	---
51-21	1001.49	5/30/2007	14.95	---	0.00	---	NM	0.00	986.54	8.34	---
51-21	1001.49	6/15/2007	15.18	P	< 0.01	---	NM	0.00	986.31	3.15	---
51-21	1001.49	6/19/2007	15.30	P	< 0.01	---	NM	0.00	986.19	1.14	---
51-21	1001.49	2/28/2007	14.95	P	< 0.01	---	NM	0.00	986.54	5.31	---
51-21	1001.49	6/27/2007	14.98	P	< 0.01	---	NM	0.00	986.51	3.03	---
59-01	997.52	1/23/2007	10.90	10.88	0.02	---	11.43	0.00	986.64	---	---
59-01	997.52	2/27/2007	Dry at 11.41 ft		NA	---	11.41	NA	<986.1	---	---
59-01	997.52	4/13/2007	11.31	---	0.00	---	11.42	0.00	986.21	---	---
59-01	997.52	4/27/2007	9.84	---	0.00	---	11.39	0.00	987.68	---	---
59-01	997.52	5/29/2007	10.70	---	0.00	---	11.40	0.00	986.82	---	---
59-01	997.52	6/26/2007	11.05	---	0.00	---	11.40	0.00	986.47	---	---
59-03R	997.64	1/23/2007	11.60	11.00	0.60	---	17.05	0.00	986.60	0.370	---
59-03R	997.64	2/27/2007	12.50	11.80	0.70	---	17.05	0.00	985.79	0.432	---
59-03R	997.64	4/13/2007	11.36	10.53	0.83	---	17.03	0.00	987.05	0.512	---
59-03R	997.64	4/27/2007	11.00	9.84	1.16	---	17.04	0.00	987.72	---	---
59-03R	997.64	5/29/2007	11.28	10.80	0.48	---	17.04	0.00	986.81	0.296	---
59-03R	997.64	6/26/2007	11.96	11.35	0.61	---	17.05	0.00	986.25	0.376	---
59-07	997.96	1/23/2007	11.32	11.30	0.02	---	23.54	0.00	986.66	---	---
59-07	997.96	2/27/2007	12.13	12.10	0.03	---	23.50	0.00	985.86	---	---
59-07	997.96	4/13/2007	10.86	10.80	0.06	---	23.52	0.00	987.16	0.037	---
59-07	997.96	4/27/2007	10.22	10.21	0.01	---	23.51	0.00	987.75	---	---
59-07	997.96	5/29/2007	11.12	11.10	0.02	---	23.52	0.00	986.86	---	---
59-07	997.96	6/26/2007	11.65	11.62	0.03	---	23.50	0.00	986.34	---	---
GMA3-10	997.54	1/3/2007	11.36	11.25	0.11	---	17.93	0.00	986.28	---	---
GMA3-10	997.54	1/10/2007	11.24	11.10	0.14	---	17.90	0.00	986.43	---	---
GMA3-10	997.54	1/15/2007	11.09	10.92	0.17	---	17.89	0.00	986.61	---	---
GMA3-10	997.54	1/23/2007	11.00	10.80	0.20	---	17.88	0.00	986.73	---	---
GMA3-10	997.54	1/30/2007	11.06	10.90	0.16	---	17.88	0.00	986.63	---	---
GMA3-10	997.54	2/6/2007	11.21	11.10	0.11	---	17.87	0.00	986.43	---	---
GMA3-10	997.54	2/13/2007	11.54	11.27	0.27	---	17.84	0.00	986.25	0.167	---
GMA3-10	997.54	2/21/2007	11.95	11.45	0.50	---	17.90	0.00	986.06	0.308	---

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GMA3-10	997.54	2/27/2007	11.84	11.56	0.28	---	17.84	0.00	985.96	0.173	---
GMA3-10	997.54	3/7/2007	11.86	11.65	0.21	---	17.84	0.00	985.88	---	---
GMA3-10	997.54	3/14/2007	11.79	11.65	0.14	---	17.84	0.00	985.88	---	---
GMA3-10	997.54	3/20/2007	11.44	11.37	0.07	---	17.84	0.00	986.17	---	---
GMA3-10	997.54	3/28/2007	11.06	10.90	0.16	---	17.83	0.00	986.63	---	---
GMA3-10	997.54	4/3/2007	10.69	10.55	0.14	---	17.84	0.00	986.98	---	---
GMA3-10	997.54	4/13/2007	10.80	10.35	0.45	---	17.85	0.00	987.16	0.278	---
GMA3-10	997.54	4/18/2007	10.50	9.90	0.60	---	17.84	0.00	987.60	0.370	---
GMA3-10	997.54	4/24/2007	10.20	9.65	0.55	---	17.84	0.00	987.85	0.339	---
GMA3-10	997.54	5/2/2007	10.60	9.75	0.85	---	17.84	0.00	987.73	0.524	---
GMA3-10	997.54	5/8/2007	10.45	9.92	0.53	---	17.84	0.00	987.58	0.327	---
GMA3-10	997.54	5/15/2007	10.80	10.09	0.71	---	17.83	0.00	987.40	0.438	---
GMA3-10	997.54	5/23/2007	10.75	10.35	0.40	---	17.83	0.00	987.16	0.247	---
GMA3-10	997.54	5/29/2007	10.85	10.50	0.35	---	17.84	0.00	987.02	0.216	---
GMA3-10	997.54	6/6/2007	11.03	10.65	0.38	---	17.83	0.00	986.86	0.234	---
GMA3-10	997.54	6/13/2007	11.15	10.76	0.39	---	17.84	0.00	986.75	0.241	---
GMA3-10	997.54	6/20/2007	11.26	10.95	0.31	---	17.83	0.00	986.57	0.191	---
GMA3-10	997.54	6/26/2007	11.21	11.12	0.09	---	17.83	0.00	986.41	---	---
GMA3-11	997.25	1/23/2007	10.17	---	0.00	---	18.27	0.00	987.08	---	---
GMA3-11	997.25	2/27/2007	11.05	---	0.00	---	18.30	0.00	986.20	---	---
GMA3-11	997.25	3/27/2007	10.30	---	0.00	---	18.28	0.00	986.95	---	---
GMA3-11	997.25	4/27/2007	9.20	9.11	0.09	---	18.38	0.00	988.13	---	---
GMA3-11	997.25	5/29/2007	9.75	---	0.00	---	18.28	0.00	987.50	---	---
GMA3-11	997.25	6/26/2007	10.40	---	0.00	---	18.30	0.00	986.85	---	---
GMA3-12	997.84	1/3/2007	11.74	11.60	0.14	---	21.20	0.00	986.23	---	---
GMA3-12	997.84	1/10/2007	11.58	11.40	0.18	---	21.25	0.00	986.43	---	---
GMA3-12	997.84	1/15/2007	11.47	11.25	0.22	---	21.24	0.00	986.57	---	---
GMA3-12	997.84	1/23/2007	11.35	11.16	0.19	---	21.25	0.00	986.67	---	---
GMA3-12	997.84	1/30/2007	11.41	11.30	0.11	---	21.22	0.00	986.53	---	---
GMA3-12	997.84	2/6/2007	11.54	11.48	0.06	---	21.24	0.00	986.36	---	---
GMA3-12	997.84	2/13/2007	11.80	11.63	0.17	---	21.22	0.00	986.20	---	---
GMA3-12	997.84	2/21/2007	12.10	11.80	0.30	---	21.24	0.00	986.02	0.741	---
GMA3-12	997.84	2/27/2007	12.06	11.92	0.14	---	21.24	0.00	985.91	---	---
GMA3-12	997.84	3/7/2007	12.61	12.01	0.60	---	21.24	0.00	985.79	0.370	---
GMA3-12	997.84	3/14/2007	12.09	11.95	0.14	---	21.24	0.00	985.88	---	---
GMA3-12	997.84	3/20/2007	12.03	11.68	0.35	---	21.24	0.00	986.14	0.865	---
GMA3-12	997.84	3/28/2007	11.30	11.20	0.10	---	21.24	0.00	986.63	---	---

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GMA3-12	997.84	4/3/2007	11.00	10.86	0.14	---	21.24	0.00	986.97	---	---
GMA3-12	997.84	4/13/2007	10.94	10.73	0.21	---	21.24	0.00	987.10	0.519	---
GMA3-12	997.84	4/18/2007	10.30	10.25	0.05	---	21.23	0.00	987.59	---	---
GMA3-12	997.84	4/24/2007	10.15	10.09	0.06	---	21.25	0.00	987.75	---	---
GMA3-12	997.84	5/2/2007	10.30	10.21	0.09	---	21.24	0.00	987.62	---	---
GMA3-12	997.84	5/8/2007	10.40	10.35	0.05	---	21.25	0.00	987.49	---	---
GMA3-12	997.84	5/15/2007	10.62	10.55	0.07	---	21.24	0.00	987.29	0.173	---
GMA3-12	997.84	5/23/2007	10.78	10.75	0.03	---	21.23	0.00	987.09	---	---
GMA3-12	997.84	5/29/2007	11.00	10.92	0.08	---	21.24	0.00	986.91	---	---
GMA3-12	997.84	6/6/2007	11.10	11.00	0.10	---	21.22	0.00	986.83	---	---
GMA3-12	997.84	6/13/2007	11.31	11.19	0.12	---	21.22	0.00	986.64	---	---
GMA3-12	997.84	6/20/2007	11.35	11.32	0.03	---	21.22	0.00	986.52	---	---
GMA3-12	997.84	6/26/2007	11.57	11.50	0.07	---	21.21	0.00	986.34	---	---
GMA3-13	997.73	1/3/2007	11.54	11.45	0.09	---	17.58	0.00	986.27	0.056	---
GMA3-13	997.73	1/10/2007	11.35	11.30	0.05	---	17.58	0.00	986.43	0.031	---
GMA3-13	997.73	1/15/2007	11.15	11.10	0.05	---	17.54	0.00	986.63	0.031	---
GMA3-13	997.73	1/23/2007	11.09	10.95	0.14	---	17.56	0.00	986.77	0.086	---
GMA3-13	997.73	1/30/2007	11.31	11.05	0.26	---	17.53	0.00	986.66	0.160	---
GMA3-13	997.73	2/6/2007	11.35	11.28	0.07	---	17.51	0.00	986.45	0.043	---
GMA3-13	997.73	2/13/2007	11.70	11.46	0.24	---	17.51	0.00	986.25	0.148	---
GMA3-13	997.73	2/21/2007	11.90	11.60	0.30	---	17.51	0.00	986.11	0.185	---
GMA3-13	997.73	2/27/2007	11.99	11.80	0.19	---	17.52	0.00	985.92	0.117	---
GMA3-13	997.73	3/7/2007	11.98	11.85	0.13	---	17.52	0.00	985.87	0.080	---
GMA3-13	997.73	3/14/2007	11.92	11.80	0.12	---	17.52	0.00	985.92	0.074	---
GMA3-13	997.73	3/20/2007	11.58	11.53	0.05	---	17.51	0.00	986.20	0.031	---
GMA3-13	997.73	3/28/2007	11.18	11.13	0.05	---	17.51	0.00	986.60	0.031	---
GMA3-13	997.73	4/3/2007	10.80	10.75	0.05	---	17.51	0.00	986.98	0.031	---
GMA3-13	997.73	4/13/2007	10.76	10.55	0.21	---	17.52	0.00	987.17	0.130	---
GMA3-13	997.73	4/18/2007	10.55	10.10	0.45	---	17.51	0.00	987.60	0.278	---
GMA3-13	997.73	4/24/2007	10.11	9.85	0.26	---	17.51	0.00	987.86	0.160	---
GMA3-13	997.73	5/2/2007	10.30	9.95	0.35	---	17.50	0.00	987.76	0.216	---
GMA3-13	997.73	5/8/2007	10.14	10.11	0.03	---	17.50	0.00	987.62	0.019	---
GMA3-13	997.73	5/15/2007	10.34	10.30	0.04	---	17.50	0.00	987.43	0.025	---
GMA3-13	997.73	5/23/2007	10.58	10.55	0.03	---	17.50	0.00	987.18	0.019	---
GMA3-13	997.73	5/29/2007	10.88	10.68	0.20	---	17.50	0.00	987.04	0.123	---
GMA3-13	997.73	6/6/2007	10.92	10.80	0.12	---	17.44	0.00	986.92	0.074	---
GMA3-13	997.73	6/13/2007	11.02	10.95	0.07	---	17.48	0.00	986.78	0.043	---

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GMA3-13	997.73	6/20/2007	11.18	11.10	0.08	---	17.44	0.00	986.62	0.049	---
GMA3-13	997.73	6/26/2007	11.40	11.30	0.10	---	17.48	0.00	986.42	0.062	---
GMA3-14	997.42	1/23/2007	10.47	---	0.00	---	16.74	0.00	986.95	---	---
GMA3-14	997.42	2/27/2007	11.04	---	0.00	---	16.74	0.00	986.38	---	---
GMA3-14	997.42	3/27/2007	10.55	---	0.00	---	16.76	0.00	986.87	---	---
GMA3-14	997.42	4/27/2007	9.40	---	0.00	---	16.67	0.00	988.02	---	---
GMA3-14	997.42	5/29/2007	10.30	---	0.00	---	16.74	0.00	987.12	---	---
GMA3-14	997.42	6/26/2007	10.88	---	0.00	---	16.70	0.00	986.54	---	---
GMA3-15	996.74	1/23/2007	10.94	---	0.00	---	17.19	0.00	985.80	---	---
GMA3-15	996.74	4/26/2007	9.94	---	0.00	---	17.21	0.00	986.80	---	---
GMA3-16	989.26	4/13/2007	Water at Top of PVC		NA	---	13.00	NA	NA	---	---
GMA3-16	989.26	4/27/2007	0.80	---	0.00	12.96	13.00	0.04	988.46	---	0.05
GMA3-16	989.26	5/8/2007	1.28	---	0.00	---	13.02	0.00	987.98	---	---
GMA3-16	989.26	5/15/2007	1.60	---	0.00	---	13.00	0.00	987.66	---	---
GMA3-16	989.26	5/23/2007	1.50	---	0.00	---	13.00	0.00	987.76	---	---
GMA3-16	989.26	5/29/2007	1.80	---	0.00	---	13.00	0.00	987.46	---	---
GMA3-16	989.26	6/6/2007	1.00	---	0.00	---	13.00	0.00	988.26	---	---
GMA3-16	989.26	6/13/2007	1.61	---	0.00	---	13.00	0.00	987.65	---	---
GMA3-16	989.26	6/20/2007	2.00	---	0.00	---	13.00	0.00	987.26	---	---
GMA3-16	989.26	6/26/2007	2.04	---	0.00	---	13.00	0.00	987.22	---	---
GMA3-2	991.94	4/26/2007	5.85	---	0.00	---	14.76	0.00	986.09	---	---
GMA3-3	990.45	4/26/2007	0.60	---	0.00	---	21.02	0.00	989.85	---	---
GMA3-4	994.6	4/27/2007	5.71	---	0.00	---	13.18	0.00	988.89	---	---
GMA3-5	993.67	4/26/2007	6.32	---	0.00	---	15.44	0.00	987.35	---	---
GMA3-6	1003.22	4/27/2007	15.31	---	0.00	---	23.55	0.00	987.91	---	---
GMA3-7	1000.17	1/23/2007	13.21	---	0.00	---	19.78	0.00	986.96	---	---
GMA3-7	1000.17	4/26/2007	12.03	---	0.00	---	19.67	0.00	988.14	---	---
GMA3-8	996.24	4/26/2007	8.76	---	0.00	---	15.52	0.00	987.48	---	---
GMA3-9	992.39	4/27/2007	3.45	---	0.00	---	12.62	0.00	988.94	---	---
OBG-2	992.2	4/26/2007	3.77	---	0.00	---	14.70	0.00	988.43	---	---
UB-MW-10	995.99	1/23/2007	9.30	---	0.00	---	14.85	0.00	986.69	---	---
UB-MW-10	995.99	2/27/2007	PVC is Iced Over		NA	---	---	NA	NA	---	---
UB-MW-10	995.99	3/27/2007	9.35	---	0.00	---	14.78	0.00	986.64	---	---
UB-MW-10	995.99	4/27/2007	8.26	---	0.00	---	14.67	0.00	987.73	---	---
UB-MW-10	995.99	5/29/2007	9.20	---	0.00	---	14.74	0.00	986.79	---	---
UB-MW-10	995.99	6/26/2007	9.75	---	0.00	---	14.70	0.00	986.24	---	---
UB-PZ-3	998.15	1/23/2007	11.86	11.65	0.21	---	13.42	0.00	986.49	---	---

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Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)	LNAPL Removed (Liters)	DNAPL Removed (Liters)
UB-PZ-3	998.15	2/27/2007	12.57	12.40	0.17	---	13.41	0.00	985.74	0.059	---
UB-PZ-3	998.15	4/13/2007	10.50	10.35	0.15	---	13.42	0.00	987.79	0.023	---
UB-PZ-3	998.15	4/27/2007	12.00	---	0.00	---	13.09	0.00	986.15	---	---
UB-PZ-3	998.15	5/29/2007	11.65	11.40	0.25	---	13.91	0.00	986.73	0.087	---
UB-PZ-3	998.15	6/26/2007	12.10	11.95	0.15	---	13.43	0.00	986.19	0.052	---
Unkamet Brook Staff Gauges											
GMA3-SG-2	981.61	4/27/2007	3.05	See Note 6 regarding depth to water					984.66	---	---
GMA3-SG-3	989.42	4/27/2007	2.03	See Note 6 regarding depth to water					991.45	---	---
GMA3-SG-4	989.71	4/26/2007	0.78	See Note 6 regarding depth to water					990.49	---	---
GMA 4 Monitoring Wells Adjacent to GMA3											
060B-R	1,002.79	4/24/2007	13.65	---	0.00	---	20.75	0.00	989.14	---	---
GMA4-3	1,003.95	1/17/2007	17.40	---	0.00	---	26.25	0.00	986.55	---	---
GMA4-3	1,003.95	2/27/2007	18.00	---	0.00	---	26.25	0.00	985.95	---	---
GMA4-3	1,003.95	3/27/2007	17.55	---	0.00	---	26.25	0.00	986.40	---	---
GMA4-3	1,003.95	4/24/2007	16.10	---	0.00	---	26.24	0.00	987.85	---	---
GMA4-3	1,003.95	5/29/2007	16.85	---	0.00	---	26.25	0.00	987.10	---	---
GMA4-3	1,003.95	6/26/2007	17.50	---	0.00	---	26.25	0.00	986.45	---	---
RF-14	1,001.59	4/24/2007	6.61	---	0.00	---	22.62	0.00	994.98	---	---

Notes:

1. ft BMP - feet Below Measuring Point.
2. --- indicates LNAPL or DNAPL was not present in a measurable quantity.
3. NA indicates information not available.
4. NM indicates information 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. Survey reference points were established on the GMA 3 staff gauges. The "Depth to Water" value(s) provided in the above table refer to the vertical distance from the surveyed reference point to the water surface.

ARCADIS BBL

Appendix C

Field Sampling Data

GROUNDWATER SAMPLING LOG

Well No. 2A MS/MSD
Key No. ___
PID Background (ppm) ___
Well Headspace (ppm) ___

Site/GMA Name GMA3 GE Pittsfield
Sampling Personnel ___
Date 5/14/09
Weather Sunny, Clear, Mid 70's

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ___ Meas. From ___
Well Diameter ___
Screen Interval Depth 45-50 Meas. From ___
Water Table Depth 7.74 Meas. From TIC
Well Depth 55.00 Meas. From TIC
Length of Water Column 55
Volume of Water in Well ___
Intake Depth of Pump/Tubing 47.5 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 ~~1115~~ 12:30
Sample ID 2A
Duplicate ID ___
MS/MSD 2A MS/MSD
Split Sample ID ___

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

EVACUATION INFORMATION

Pump Start Time 1610
Pump Stop Time ___
Minutes of Pumping ___
Volume of Water Removed ___
Did Well Go Dry? Y N

Evacuation Method: Bailer ( ) Bladder Pump ( )
Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type: Geopump YSI 556 MPS
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]*
1055	200		7.94				10		
1100	200		7.95	11.20	7.50	0.418	6	0.97	237.7
1105	200		7.95	10.88	7.14	0.418	5	0.43	242.2
1110	200		7.95	10.84	7.09	0.416	4	0.37	224.1
1115	200		7.95	10.85	7.07	0.415	8	0.27	201.2
1120	200		7.95	10.86	7.14	0.414	~~13~~	0.32	196.0
1125	200		7.95	10.92	7.15	0.414	16	0.37	112.9
1130	200		7.95	10.98	7.32	0.414	16	0.24	69.4

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

OBSERVATIONS/SAMPLING METHOD DEVIATIONS ___

SAMPLE DESTINATION

Laboratory: ___
Delivered Via: ___
Airbill #: ___

Field Sampling Coordinator: ___

GROUNDWATER SAMPLING LOG

Well No. 2A 11/5/2150

Site/GMA Name _____

Sampling Personnel _____

Date _____

Weather _____

WELL INFORMATION - See Page 1

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]*
1135	200		7.95	11.00	7.39	0.414	15.0	0.28	37.3
1140	200		7.95	11.01	7.60	0.415	14.0	0.34	3.2
1145	200		7.95	10.97	7.53	0.415	12.0	0.28	-18.0
1150	200		7.95	10.97	7.59	0.415	12.0	0.34	-27.6
1155	200		7.95	10.98	7.57	0.416	11	0.36	-23.8
1200	200		7.95	10.94	7.59	0.416	10	0.34	-26.2
1205	200		7.96	11.01	7.61	0.416	8	0.27	-32.2
1210	200		7.96	10.94	7.70	0.417	6	0.25	-37.8
1215	200		7.96	11.07	7.66	0.417	7	0.22	-35.5
1220	200		7.96	10.97	7.69	0.418	5	0.22	-34.4
1225	200			11.02	7.65	0.417	5	0.24	-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 _____

GROUNDWATER SAMPLING LOG

(O)

Well No. 16A
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA 3 / GE Pittsfield
Sampling Personnel KC RAB
Date 5/7/07
Weather Sunny 65° F

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ___ Meas. From ___
Well Diameter 2"
Screen Interval Depth 44-60 Meas. From Grnd
Water Table Depth 10.43 Meas. From TIC
Well Depth 50.92 Meas. From TIC
Length of Water Column 44.49
Volume of Water in Well 7.26 gallons
Intake Depth of Pump/Tubing 47 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 1240
Sample ID 16A
Duplicate ID —
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 0940
Pump Stop Time 1320
Minutes of Pumping 140
Volume of Water Removed 7-5 gallons
Did Well Go Dry? Y (N)

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

Water Quality Meter Type(s) / Serial Numbers: YSI 556 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]*
1045	200		8.52				49		
1050	200		8.90				53		
1055			9.38				50		
1100			9.73				44		
1105			9.90				48		
1110			9.92				50		
1115			10.02				50		
1020			10.19				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 water lt brown.

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

Well No. 16A

Site/GMA Name GMA3/Gt. Pittsfield

Sampling Personnel EC/RAB

Date 5/7/07

Weather

WELL INFORMATION - See Page 1

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]*
1125 ~~1102~~	200		10.24				74		
1130	200		10.28				78		
1135	200		10.31				85		
** 1140	150		10.32				120		
1145			9.55				140		
1150			9.78				70		
1155			9.69				56		
1200			9.66				47		
1205			9.64				48		
1210			9.67	12.62	8.33	6.116	30	0.45	-151.6
1215			9.65	12.20	8.20	6.113	28	0.22	-142.9
1220			9.60	12.18	7.97	6.111	22	0.16	-154.0
1225			9.58	11.83	7.84	6.124	17	0.16	-156.4
1230			9.58	11.89	7.92	6.122	17	0.17	-160.1
1235	↓			11.89	7.90	6.124	16	0.16	-159.2

* 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

* Pulled tubing up two feet because of turbidity

** adjusted pump rate to ~150 ml/min.

1205 - Hooked up YSI

GROUNDWATER SAMPLING LOG

Well No. 16 BR
Key No. _____
PID Background (ppm) _____
Well Headspace (ppm) _____

Site/GMA Name GMA 3 / GE Pittsfield
Sampling Personnel KLC / RAB
Date 5/8/07
Weather sunny 60's

Sample Time 1200 1155
Sample ID 16BR
Duplicate ID DUP#1
MS/MSD _____
Split Sample ID _____

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point _____ Meas. From _____
Well Diameter _____
Screen Interval Depth _____ Meas. From _____
Water Table Depth 7.47 Meas. From TIC
Well Depth 16.56 Meas. From TIC
Length of Water Column 9.09
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

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

EVACUATION INFORMATION

Pump Start Time 915
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]*
935	200		7.61				76		
940	200		7.74				43		
945			7.91				37		
950			8.05	10.04	4.91	0.971	26	11.94	144.5
955			8.31	9.91	4.89	0.911	43	11.65	130.8
1000									
1015			10.4	8.78	4.54	1.374	74	11.32	65.9
1020			10.01	8.80	4.53	1.499	30	7.80	17.2

* 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

* Switched bladder pump, sucking air, even though pump is below water depth.

X bubbles being introduced to ~~stand~~ flow through cell switched bladder pumps still having issues.

SAMPLE DESTINATION

Laboratory: _____
Delivered Via: _____
Airbill #: _____

Field Sampling Coordinator: _____

GROUNDWATER SAMPLING LOG

Well No. 16B-R

Site/GMA Name
Sampling Personnel
Date
Weather

WELL INFORMATION - See Page 1

*dropped tubing down #11 →
**

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]*
1025			11.54	8.76	4.43	1.618	33	7.69	-13.9
1030			11.52	8.77	4.46	1.691	30	6.53	-14.4
1035			11.55	8.75	4.41	1.733		6.51	
1040			—				551		
1045			12.71				180		
1050									
~~1100~~							32		
1055			12.97	10.44	4.89	2.018	34	2.30	-39.8
1100			12.95	10.33	4.65	2.001	29	0.88	-35.6
1105			12.83	10.97	4.88	1.972	23	0.70	-16.6
1110			12.81	10.88	4.56	1.916	18	0.64	-18.5
1115			12.82	10.98	4.54	1.888	14	0.64	-28.9
1120			~~12.85~~ 12.75	11.59	4.35	1.837	12	0.79	9.9
1125			12.78	11.05	4.32	1.825	9	1.18	6.8
1130			12.72	11.46	3.88	1.817	10	1.89	10.4
1135			12.68	11.24	3.69	1.809	8	1.38	47.4
1140			12.71	10.94	3.55	1.821	7	1.60	53.7
1145			12.62	11.10	3.61	1.819	7	1.50	61.7
1150			12.61	10.99	3.50	1.829	6	1.67	55.0
1155	Sampled @ 1145								

* 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

* dropped bladder pump to 13 feet. had turbidity issues dis connected YSI.

** reconnected YSI.

\field_General_Confidential\Reports and Presentations\FSP_QAPP UpdateREV04\Attachment D-2GWsampform.xls

GROUNDWATER SAMPLING LOG

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

Site/GMA Name GE Pittsfield GMA 3
Sampling Personnel LF/RAB
Date MAY 1, 2007
Weather Sunny 60's

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ____ Meas. From ____
Well Diameter 2"
Screen Interval Depth 90-100 Meas. From ____
Water Table Depth 7.31 Meas. From TIC
Well Depth 102.1 Meas. From ____
Length of Water Column ____
Volume of Water in Well ____
Intake Depth of Pump/Tubing 95 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 1610
Sample ID 16-C-R
Duplicate ID —
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 1425
Pump Stop Time 1650
Minutes of Pumping ____
Volume of Water Removed ____
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: ____

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]*
1440	250		11.8	11.66	6.05	0.255	4	2.92	143
1445	200		12.78	11.44	6.05	0.253	3	2.71	132.9
1450	200		13.31	11.61	6.15	0.252	3	2.47	118.4
1455	200		13.82	11.40	6.24	0.252	2	2.43	105.8
1500	200		14.14	11.49	6.27	0.252	3	2.28	91.9
1505	200		14.37	11.67	6.29	0.252	2	2.23	91.6
1510	200		14.60	11.48	6.35	0.252	2	2.19	85.9
1515	200		14.76	11.68	6.46	0.252	2	2.10	76.8

* 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: ____
Delivered Via: ____
Airbill #: ____

Field Sampling Coordinator: ____

GROUNDWATER SAMPLING LOG

Well No. 16C-R

Site/GMA Name GE Pittsfield / GMA 3
Sampling Personnel RAB / KLC
Date MAY 7, 2007
Weather Sunny 60s

WELL INFORMATION - See Page 1

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]*
1520	200		14.86	11.54	6.48	0.252	2	2.05	76.0
1525	200		14.96	11.69	6.51	0.251	2	1.95	73.6
1530	200		15.02	11.74	6.58	0.251	2	1.92	68.6
1535	200		15.11	11.60	6.63	0.251	1	1.84	68.6
1540	200		15.26	11.67	6.68	0.251	2	1.78	65.9
1545	200		15.34	11.69	6.77	~~0.50~~ 0.251	2	1.76	61.3
1550	200		15.44	11.64	6.84	0.251	3	1.69	58.7
1555	200		15.52	11.69	6.87	0.251	2	1.58	57.4
1600	200		15.49	11.76	6.91	0.251	1	1.51	56.0
1605	200		15.49	11.75	6.95	0.251	1	1.46 ~~1.47~~	~~54.2~~ 54.0

* 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

GROUNDWATER SAMPLING LOG

Well No. 39 B-12
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA-3
Sampling Personnel Eric SAB
Date 5/7/07
Weather Sunny, clear, 60's

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ____ Meas. From ____
Well Diameter 2.0
Screen Interval Depth 4'-14' Meas. From Ground
Water Table Depth 4.93 Meas. From TIC
Well Depth 13.81 Meas. From TIC
Length of Water Column 8.88
Volume of Water in Well 1.45 gallons
Intake Depth of Pump/Tubing 9' 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 1210
Sample ID 39-B-R
Duplicate ID —
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time ~~1100~~ 1100
Pump Stop Time 1250
Minutes of Pumping 110
Volume of Water Removed 5.15 gallons
Did Well Go Dry? Y (N)

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

Water Quality Meter Type(s) / Serial Numbers: YSI-556 MPS 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]*
~~1100~~	200	~~0~~	4.95				20		
1110	200	~~0~~	4.95	8.67	7.85	635.0	12	*0.00	119.2
1115	200	~~0~~	4.95	8.66	8.08	624.1	6	*0.00	105.5
1120	200		4.95	8.68	8.09	621.2	4	*0.00	103.4
1125	200		4.95	8.66	8.22	617.4	3	*0.00	98.6
1130	200		4.95	8.71	8.31	613.4	3	*0.00	92.9
1135	200		4.95	8.75	8.55	612.7	1	*0.00	89.1
1140	200		4.95	8.64	8.74	612.1	1	0.01	88.1

* 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
* YSI Multi-Meter does not appear to be working for this reading (DO levels)

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

Well No. 39 B-R

Site/GMA Name GMA-3
Sampling Personnel EMC SAB
Date 5-7-07
Weather Sunny, Clear, Mid 60s.

WELL INFORMATION - See Page 1

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]*
1145	200		4.95	8.70	9.02	612.3	1	0.00	84.7
1150	200		4.95	8.72	9.20	613.4	1	0.00	82.0
1155	200		4.95	8.81	9.18	614.7	1	0.00	81.9
1200	200		4.95	8.59	9.15	616.6	1	0.00	83.4
1205	200		4.95	8.66	9.15	616.3	1	0.00	84.0

* 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

GROUNDWATER SAMPLING LOG

Well No. ~~GSA~~ 39D-R
Key No. ___
PID Background (ppm) ___
Well Headspace (ppm) ___

Site/GMA Name GMA 3/GE Pittsfield
Sampling Personnel KLC
Date 5/14/07
Weather Sunny 60's

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ___ Meas. From ___
Well Diameter 2"
Screen Interval Depth 56-66 Meas. From ___
Water Table Depth 8.29 Meas. From ___
Well Depth ___ Meas. From ___
Length of Water Column ___
Volume of Water in Well ___
Intake Depth of Pump/Tubing 61 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 ~~1315~~ 1410
Sample ID 39D-R
Duplicate ID —
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time ~~1330~~ 1325
Pump Stop Time ___
Minutes of Pumping ___
Volume of Water Removed ___
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: ___

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]*
~~1330~~	200		~~8.40~~	~~12.79~~	~~8.66~~	~~0.3~~	3		
1335	↓		8.54	12.79	8.66	0.316	2	8.60	74.9
1340			8.68	12.63	8.72	0.316	2	4.79	66.2
1345			8.69	12.98	8.83	0.316	2	3.36	49.6
1350			8.68	13.04	8.85	0.315	2	3.00	35.6
1355			8.69	12.74	8.78	0.316	2	2.94	20.0
~~1400~~	↓		8.70	12.76	8.77	0.316	2	2.91	15.2
X 1405			8.70	12.64	8.85	0.317	2	2.93	12.7

* 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
X Sampled at 1410

SAMPLE DESTINATION

Laboratory: ___
Delivered Via: ___
Airbill #: ___

Field Sampling Coordinator: ___

GROUNDWATER SAMPLING LOG

Well No. 39 E
Key No.
PID Background (ppm)
Well Headspace (ppm)

Site/GMA Name GMA 3 GE Pittsfield
Sampling Personnel KLC
Date 5/14/07
Weather Sunny 60's

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ______ Meas. From ______
Well Diameter 4
Screen Interval Depth 225-235 Meas. From ______
Water Table Depth 5.06 Meas. From ______
Well Depth ______ Meas. From ______
Length of Water Column
Volume of Water in Well
Intake Depth of Pump/Tubing 230 Meas. From ______

Sample Time ~~390~~ 1250
Sample ID —
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
(X)	VOCs (Std. list)	(X)
( )	VOCs (Exp. list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorganics (Total)	( )
( )	Metals/Inorganics (Dissolved)	( )
( )	EPA Cyanide (Dissolved)	( )
( )	PAC Cyanide (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pesticides/Herbicides	( )
(X)	Natural Attenuation	(X)
( )	Other (Specify)	( )

EVACUATION INFORMATION

Pump Start Time 1145
Pump Stop Time
Minutes of Pumping
Volume of Water Removed
Did Well Go Dry? Y N

Evacuation Method: Bailer ( ) Bladder Pump ( ) Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type: Geo Pump.
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]*
1155							7		
1200	200		5.14	12.81	6.17	0.274	2	7.50	209.6
1205	↓			12.25	5.81	0.274	2	4.49	212.5
1210				11.95	5.62	0.274	2	3.09	179.8
1215				11.97	5.91	0.275	2	2.88	145.1
1220				11.84	6.08	0.275	1	2.78	121.7
1225				11.70	6.13	0.274	1	2.78	110.8
1230	↓		5.30	11.76	6.18	0.274	2	2.77	98.4

* 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. ~~360-R~~ 396

Site/GMA Name GMA3/GE Pittsfield

Sampling Personnel KC

Date 5/14/07

Weather Sunny 60's.

WELL INFORMATION - See Page 1

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]*
1235			8.31	11.72	6.19	0.274	2	2.75	95.1
1240				11.72	6.21	0.273	2	2.79	88.5
1245				11.73	6.22	0.274	2.	2.80	87.3
Sampled @			1250						

* 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

GROUNDWATER SAMPLING LOG

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

Site/GMA Name GMA3 / GE Pittsfield
Sampling Personnel BAB
Date 5/9/07
Weather Sunny, Clear Mid 60s

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point ___ Meas. From ___
Well Diameter ___
Screen Interval Depth ___ Meas. From ___
Water Table Depth 5.36 Meas. From TIC
Well Depth 51.39 Meas. From TIC
Length of Water Column ___
Volume of Water in Well ___
Intake Depth of Pump/Tubing ~47.5 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 1145
Sample ID 43A
Duplicate ID —
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 925
Pump Stop Time 1225
Minutes of Pumping ___
Volume of Water Removed ___
Did Well Go Dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump ( )
Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type: Geopump Z-2100P Turbidometer
Samples collected by same method as evacuation? (Y) N (specify) YSI 556 MPS

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	200		7.40				11		
0945	200		11.69	12.62	7.71	0.577	14	1.22	-165.4
0950	200		13.28	12.26	7.56	0.574	17	0.64	-175.2
0955	200		14.11	12.30	7.49	0.570	19	0.54	-137.2
1000	200		15.41	12.30	7.53	0.563	19	0.45	-134.2
1005	200		16.65	12.48	7.54	0.560	19	0.33	-121.5
1010	200		17.74	12.61	7.58	0.560	23	0.36	-115.5
1015	200		18.58	12.54	7.66	0.562	27	0.28	-186.6

* 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: ___
Delivered Via: ___
Airbill #: ___

Field Sampling Coordinator: ___

GROUNDWATER SAMPLING LOG

Well No. 43 A

Site/GMA Name GMA-3
Sampling Personnel EMC
Date 5/9/07
Weather Sunny clear mid 60s.

WELL INFORMATION - See Page 1

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]*
1020	200		19.39	12.63	7.68	0.563	35	0.30	+167.1
1025	200		19.96	12.70	7.55	0.705	34	0.25	-162.4
1030	200		20.43	12.95	6.98	0.820	32	0.26	-124.3
1035	200		20.79	13.34	7.03	0.850	31	0.27	-116.9
1040	200		21.16	13.44	6.92	0.903	28	0.33	-114.9
1045	200		20.48	13.62	6.96	0.920	26	0.39	-112.5
1050	200		21.80	13.95	6.95	0.930	25	0.51	-106.5
1055	200		22.10	14.38	6.97	0.953	19	0.58	-97.2
1100	200		22.29	14.30	7.09	0.988	17	0.46	-101.4
1105	200		22.52	14.41	7.09	0.992	15	0.38	-92.8
1110	200		22.72	15.09	7.08	1.002	13	0.39	-98.1
1115	200		22.87	15.22	7.18	1.014	12	0.37	-94.6
1120	200		22.96	15.55	7.17	1.017	11	0.28	-82.7
1125	200		23.10	15.63	7.23	1.026	10	0.27	-89.5
1130	200		23.15	15.54	7.24	1.037	8	0.25	-92.3
1135	200		23.22	15.76	7.19	1.043	7	0.25	-86.5
1140	200		23.30	15.68	7.25	1.049	6	0.26	-94.9
Sampled at			1145	←					

* 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

GROUNDWATER SAMPLING LOG

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

Site/GMA Name GMA 3/GE Pittsfield
Sampling Personnel _____
Date 5/9/07
Weather Hazy, Hot, 70's

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point _____ Meas. From _____
Well Diameter _____
Screen Interval Depth 15-20 Meas. From _____
Water Table Depth 5.82 Meas. From _____
Well Depth 21.77 Meas. From _____
Length of Water Column _____
Volume of Water in Well _____
Intake Depth of Pump/Tubing 17.5 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 1010
Sample ID 43B
Duplicate ID —
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 925
Pump Stop Time 1050
Minutes of Pumping _____
Volume of Water Removed _____
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: _____

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]*
930	200		6.42				6		
935	↓		8.31	10.15	7.61	1.148	8	3.73	-94.3
940			8.52	9.96	7.67	1.149	8	3.48	-97.7
945			8.65	10.12	7.76	1.145	8	3.18	-99.9
950			8.70	10.14	7.75	1.145	6	3.02	-103.7
955			8.73	10.19	7.77	1.145	3	2.99	-104.4
1000			8.74	10.27	7.88	1.145	2	2.97	-108.9
* 1006	↓		8.79	10.40	7.93	1.148	2	3.02	-112.4

* 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
* Sampled at 1010

SAMPLE DESTINATION

Laboratory: _____
Delivered Via: _____
Airbill #: _____

Field Sampling Coordinator: _____

GROUNDWATER SAMPLING LOG

Well No. 89 A
Key No. FY-27
PID Background (ppm) ___
Well Headspace (ppm) ___

Site/GMA Name GMA-3
Sampling Personnel EMC, IRC
Date 5/8/07
Weather Sunny, Mid 70's

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ___ Meas. From ___
Well Diameter ___
Screen Interval Depth ___ Meas. From ___
Water Table Depth 3.63 Meas. From TIC
Well Depth 47.25 Meas. From TIC
Length of Water Column ___
Volume of Water in Well ___
Intake Depth of Pump/Tubing 45.5 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 1600
Sample ID 89A
Duplicate ID —
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 1445
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: GeoPump 2
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]*
1450	200		3.63				53		
1455	200		3.81				51		
1500	200		4.04				46		
1505			4.17	15.68	9.17	0.314	48	2.26	-133.9
1510			4.25	14.89	9.42	0.315	47	1.67	-197.9
1515			4.28	14.47	9.40	1.396	63	1.409	-258.4
1520			4.33				72		
1525			4.39				62		

* 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. 89BA

Site/GMA Name GMA 3/GE Pittsfield
Sampling Personnel KIC, EMC
Date 5/9/07
Weather 70's Sunny

WELL INFORMATION - See Page 1

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]*
1530			4.39				52		
1535			4.38				43		
1540			4.38	17.35	8.00	1.946	46	1.71	-220.2
1545			4.39	17.02	7.90	1.946	37	1.56	-222
1550			4.39	17.08	7.93	1.960	28	1.55	-219.8
1555			4.39	16.97	7.88	1.963	27	1.58	-217.3
1560			4.39	17.04	7.92	1.972	26	1.56	-210.4
Sampled at 1600									

* 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

GROUNDWATER SAMPLING LOG

Well No. 89B
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA-3
Sampling Personnel EWC KLC
Date 5/9/07
Weather Sunny, mid 70's

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ___ Meas. From ___
Well Diameter ___
Screen Interval Depth ___ Meas. From ___
Water Table Depth 3.10 Meas. From TIC
Well Depth 8.71 Meas. From TIC
Length of Water Column ___
Volume of Water in Well ___
Intake Depth of Pump/Tubing ~6 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 17.15
Sample ID 89B
Duplicate ID ___
MS/MSD ___
Split Sample ID ___

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

EVACUATION INFORMATION

Pump Start Time 1620
Pump Stop Time 1750
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: Aeropump
Samples collected by same method as evacuation? Y N (specify)

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

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]*
1625	200		3.10				25		
1630	200		3.10	14.04	6.71	0.805	25	3.58	-38.9
1635	200		3.10	14.00	7.04	0.804	11	3.42	-45.4
1640	200		3.10	15.58	6.49	0.799	8	2.39	-48.2
1645	200		3.10	15.88	7.05	0.796	7	2.10	-57.5
1650	200		3.10	15.71	7.11	0.787	4 ~~10~~ EC	1.96	-59.2
1655	200		3.10	15.63	6.98	0.787	3	1.90	-56.2
1700	200		3.10	15.55	6.91	0.785	3	1.90	-57.9

* 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. 89B

Site/GMA Name GMA 3

Sampling Personnel ~~RA~~ SIC/EMC

Date 5/9/07

Weather Sunny mid 70°

WELL INFORMATION - See Page 1

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]*
1705	200		3.10	15.08	7.01	0.787	3	1.98	-60.0
1710	200		3.10	15.03	7.06	0.787	3	1.99	-63.0
Sampled at 1715									

* 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

GROUNDWATER SAMPLING LOG

Well No. 89D-R
Key No. ___
PID Background (ppm) ___
Well Headspace (ppm) ___

Site/GMA Name GE Pittsfield/GMA3
Sampling Personnel RAB/KLC
Date MAY 9, 2007
Weather Sunny low 80s

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ___ Meas. From ___
Well Diameter ___
Screen Interval Depth ___ Meas. From ___
Water Table Depth 3.82 Meas. From TIC
Well Depth 19.24 Meas. From TIC
Length of Water Column ___
Volume of Water in Well ___
Intake Depth of Pump/Tubing ___ 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 1615
Sample ID 89D-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)	( )
( )	EPA Cyanide (Dissolved)	( )
( )	PAC Cyanide (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pesticides/Herbicides	( )
(✓)	Natural Attenuation	(✓)
( )	Other (Specify)	( )

EVACUATION INFORMATION

Pump Start Time 1445
Pump Stop Time 1635
Minutes of Pumping ___
Volume of Water Removed ___
Did Well Go Dry? Y N

Evacuation Method: Bailer ( ) Bladder Pump ( )
Peristaltic Pump (K) Submersible Pump ( ) Other/Specify ( )
Pump Type: Geopump 2 YSI 556 MPS #4 2100P
Samples collected by same method as evacuation? (Y) N (specify) Turbidimeter

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]*
1505	200		4.15	11.31	9.21	2.851	27	15.65	-104.7
1510	200		4.20	10.88	7.99	2.847	16	1.49	-91.6
1515	200		4.19	10.67	8.06	2.832	16	0.86	-87.4
1520	200		4.19	10.86	7.99	2.781	14	0.60	-99.8
1525	200		4.18	10.71	7.93	2.767	11	0.49	-99.9
1530	200		4.18	10.64	7.98	2.700	8	0.42	-105.2
1535	200		4.18	10.77	8.11	2.653	6	0.36	-110.2
1540	200		4.18	10.72	8.16	2.621	6	0.34	-110.6

* 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

Tied weight on bottom of tubing to drop to depth

SAMPLE DESTINATION

Laboratory: ___
Delivered Via: ___
Airbill #: ___

Field Sampling Coordinator: ___

GROUNDWATER SAMPLING LOG

Well No. 89D-R

Site/GMA Name GE Pittsfield/GMA3
Sampling Personnel RAB/KLC
Date MAY 9, 2007
Weather Sunny low 80s

WELL INFORMATION - See Page 1

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]*
1545	200		4.18	10.53	8.18	2.599	5	0.31	-109.8
1550	200		4.18	10.63	8.23	2.584	3	0.29	-120.4
1555	200		4.18	10.59	8.14	2.578	3	0.26	-122.0
1600	200		4.18	10.63	8.12	2.553	3	0.26	-126.5
1605	200		4.18	10.53	8.41	2.534	2	0.24	-126.7
1610	200		4.18	10.71	8.42	2.527	2	0.25	-118.6
1613	200		4.18	10.70	8.46	2.523	2	0.24	-116.6
1616	200		4.18	10:62	8.46	2.521	2	0.23	-115.8
Sampled at			1615						

* 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

GROUNDWATER SAMPLING LOG

Well No. 90A
Key No. EY-37
PID Background (ppm) .5
Well Headspace (ppm) —

Site/GMA Name GMA 3 GE Pittsfield
Sampling Personnel EJC, RAB
Date 6/8/07
Weather Sunny 76°

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ____ Meas. From ____
Well Diameter ____
Screen Interval Depth 45-50 Meas. From ____
Water Table Depth 4.95 Meas. From ____
Well Depth 57.5 Meas. From ____
Length of Water Column ____
Volume of Water in Well ____
Intake Depth of Pump/Tubing 47.5 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 1600
Sample ID 90A
Duplicate ID —
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time ~~7:50~~ 1450
Pump Stop Time 1645
Minutes of Pumping ____
Volume of Water Removed ____
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

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]*
~~1450~~	200		5.55				54		
1500			5.49	10.95	4.93	0.168	49	1.95	-40.1
1505			5.48	10.78	4.88	0.168	36	1.70	-40.7
1510			5.50	10.40	4.68	0.176	30	1.15	-21.7
1515			5.50	10.53	4.73	0.239	33	0.97	34.6
1520			5.50	10.11	4.88	0.330	11	0.68	-87.5
1525	↓			10.47	4.73	0.346	11	0.63	-25.9
1530			↓	10.06	4.66	0.368	~~90~~	0.61	-58.7

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

OBSERVATIONS/SAMPLING METHOD DEVIATIONS ____

SAMPLE DESTINATION

Laboratory: ____
Delivered Via: ____
Airbill #: ____

Field Sampling Coordinator: ____

GROUNDWATER SAMPLING LOG

Well No. 90A

Site/GMA Name GMA 3 GE Pittsfield

Sampling Personnel EC, RAB.

Date 5/8/07

Weather Sunny high 70's

WELL INFORMATION - See Page 1

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]*
1535	200	~~5.50~~	5.50	10.09	4.49	0.375	11	1.257	-63.0
1540	↓		↓	10.11	4.38	0.379	8	0.71	-63.6
1545	↓		↓	10.24	4.40	0.379	6	0.63	-58.6
1550	↓		↓	10.09	4.34	0.386	4	0.54	-63.4
1555	↓		↓	10.08	4.33	0.387	5	0.50	-69.4

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

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

GROUNDWATER SAMPLING LOG

Well No. 90B
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA-3
Sampling Personnel Emc SAB
Date 5/8/07
Weather Sunny, Clear, Mid 70s

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ___ Meas. From ___
Well Diameter 2.11
Screen Interval Depth 8-11 Meas. From ___
Water Table Depth 6.05 Meas. From TIC
Well Depth 12.85 Meas. From TIC
Length of Water Column ___
Volume of Water in Well ___
Intake Depth of Pump/Tubing 7.5 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 1600
Sample ID 90B
Duplicate ID —
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 1450
Pump Stop Time 1640
Minutes of Pumping ___
Volume of Water Removed ___
Did Well Go Dry? Y (N)

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

Water Quality Meter Type(s) / Serial Numbers: ~~YSI~~ 5561

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]*
1455	200		6.40	8.39	7.65	0.305	44	4.69	~~78~~ 79.2
1500	200		6.41	8.33	7.66	0.309	45	4.67	80.7
1505	200		~~6.41~~ 6.41	7.89	7.86	0.299	23	4.49	90.7
1510	200		6.41	8.80	7.86	0.287	16	4.11	75.0
1515	200		6.40	7.47	8.08	0.287	10	4.40	78.7
1520	200		6.42	7.42	8.18	0.280	7	4.54	74.4
1525	200		6.42	7.18	8.51	0.277	4	4.49	71.9
1530	200		6.43	7.44	8.75	0.274	2	4.26	68.3

* 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: ___
Delivered Via: ___
Airbill #: ___

Field Sampling Coordinator: ___

GROUNDWATER SAMPLING LOG

Well No. 90B

Site/GMA Name ~~EMC SAB~~ GMA-3.
Sampling Personnel EMC, SAB
Date 5/8/07
Weather Sunny, Clear, mid °70s

WELL INFORMATION - See Page 1

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]*
1535	200		6.42	7.18	8.81	0.274	2	4.27	62.6
1540	200		6.43	7.34	8.73	0.274	2	4.27	61.4
1545	200		6.43	7.38	8.70	0.273	1	4.30	59.1
1550	200		6.43	7.34	8.65	0.273	1	4.34	58.2
1555									

* 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

GROUNDWATER SAMPLING LOG

Well No. 95A
Key No. ___
PID Background (ppm) ___
Well Headspace (ppm) ___

Site/GMA Name GMA-3
Sampling Personnel CAK KLC
Date 5/18/07
Weather Sunny, High ~70s

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point ___ Meas. From ___
Well Diameter ___
Screen Interval Depth 45-50 Meas. From ___
Water Table Depth 10.75 Meas. From ___
Well Depth 50.92 Meas. From ___
Length of Water Column ___
Volume of Water in Well ___
Intake Depth of Pump/Tubing 47.5 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 1140
Sample ID 95A
Duplicate ID DUP#2
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 1015
Pump Stop Time 1200
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: Geo Pump 2
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]*
1020	200		12.02				44		
1025	200		14.14				37		
1030	200		14.14				62		
1035	200		15.53				58		
1040	200		15.77				51		
1045	200		15.89	13.92	5.90	0.274	44	0.24	-99.8
1050	200		16.10	14.00	5.97	0.276	36	0.22	-102.2
1055	200		16.18	14.26	6.12	0.277	30	0.25	-97.2

* 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 1030 - 1040: purged well / no readings due to spike in turbidity ~~too~~ readings.

SAMPLE DESTINATION

Laboratory: ___
Delivered Via: ___
Airbill #: ___

Field Sampling Coordinator: ___

GROUNDWATER SAMPLING LOG

Well No. 95A

Site/GMA Name GMA-3

Sampling Personnel EMC KLC

Date 5/10/07

Weather Sunny, High °70's P/C

WELL INFORMATION - See Page 1

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]*
1100	200		16.25	14.11	6.21	0.277	24	~~.109~~ .123	-102.1
1105	200		16.38	13.69	6.23	0.277	19	.19	-108.9
1110	200		16.25	14.14	6.15	0.279	15	.18	-104.6
1115	200		15.99	14.17	6.17	0.280	14	.17	-103.1
1120	200		15.72	14.28	6.19	0.282	13	.16	-109.2
1125	200		15.63	14.36	6.27	0.282	11	.16	-113.9
1130	200		15.61	14.65	6.36	0.281	10	.17	-118.1
1135	200		15.58	14.59	6.41	0.284	10	.18	-120.8
✱ 1146	~~200~~	———	SAMPLE	at	1140	———			

* 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

GROUNDWATER SAMPLING LOG

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

Site/GMA Name GE Pittsfield
Sampling Personnel KA
Date 5/10/07
Weather Sun 70°

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point ____ Meas. From ~~TOC~~ TIC
Well Diameter 2"
Screen Interval Depth 3-13 Meas. From BGS
Water Table Depth 10.20 Meas. From TIC
Well Depth 13.4 Meas. From TIC
Length of Water Column ____
Volume of Water in Well ____
Intake Depth of Pump/Tubing 9 Meas. From BGS

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

Redevelop? Y N

Sample Time 1210
Sample ID 95B-R
Duplicate ID —
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 1050
Pump Stop Time 1300
Minutes of Pumping ____
Volume of Water Removed 4.00
Did Well Go Dry? Y (N)

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

Water Quality Meter Type(s) / Serial Numbers: YSI

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]*
1100	200		6.08	10.84	7.27	1.040	22	4.15	-131
1105	200		6.09	10.54	7.28	1.052	18	3.45	-131.7
1110	200		6.09	10.78	7.36	1.055	15	3.05	-132.6
1115			6.10	10.17	7.40	1.058	13	3.03	-131.0
1120			6.09	9.60	7.45	1.056	11	3.05	-117.6
1125			6.09	9.48	7.48	1.054	10	3.02	-112.7
1130			6.09	9.62	7.48	1.049	10	2.99	-110.0
1135			6.10	9.68	7.49	1.046	5	3.00	109.4

* 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

Turbidity to start 25 NTU

SAMPLE DESTINATION

Laboratory: ____
Delivered Via: ____
Airbill #: ____

Field Sampling Coordinator: ____

GROUNDWATER SAMPLING LOG

Well No. 95 B-R

Site/GMA Name GMA 3 GE Pittsfield
Sampling Personnel KA
Date 5/10/07
Weather Sun 70°

WELL INFORMATION - See Page 1

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]*
1140	200		6.09	9.67	7.54	1.043	6	3.02	-109.4
1145	↓		6.09	9.91	7.70	1.038	4	3.05	-109.8
1150			6.09	10.04	7.65	1.036	4	3.05	-104.4
1155			6.10	9.93	7.65	1.037	3	3.10	-103.6
1200	↓		6.10	10.01	7.63	1.026	3	3.02	-103.9
Sampled at 1210									

* 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 Clear - Medium odor

GROUNDWATER SAMPLING LOG

Well No. 111A-R
Key No. —
PID Background (ppm) —
Well Headspace (ppm) ____

Site/GMA Name GMA3 - GE Pittsfield
Sampling Personnel KIC - ES
Date 5-7-07
Weather Sunny 60's

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ____ Meas. From ____
Well Diameter 2"
Screen Interval Depth 40-50 Meas. From Ground
Water Table Depth 12.84 Meas. From TIC
Well Depth 52.05 Meas. From TIC
Length of Water Column 39.21
Volume of Water in Well 6.40 gallons
Intake Depth of Pump/Tubing 45 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 1540
Sample ID 111A-R
Duplicate ID —
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 1430
Pump Stop Time 1610
Minutes of Pumping 100
Volume of Water Removed 5.25 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 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]*
1440		0		(14.57)			7		
1445	200		15.10	14.07	9.75	515.5	7	0.00	184.0
1450			15.80	13.93	9.71	516.2	5	0.05	185.4
1455			16.79	14.05	9.66	514.7	5	0.05	186.4
1500			17.34	13.97	9.60	515.6	4	0.05	187.3
1505			17.91	13.69	9.61	517.2	5	0.05	189.6
1510			18.06	14.20	9.54	516.0	6	0.05	189.6
1515			18.20	13.96	9.55	515.6	7	0.05	191.3

* 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: [signature]

GROUNDWATER SAMPLING LOG

Well No. 111-AR

Site/GMA Name GMA 3 - GE Pittsfield
Sampling Personnel KIC, ES
Date 5-7-07
Weather sunny 60's

WELL INFORMATION - See Page 1

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]*
1520			18.59	13.62	9.43	514.1	7	0.05	193.3
1525			18.90	13.82	9.13	507.2	9	0.05	195.4
1530				13.94	9.09	506.8	9	0.04	197.2
1535				13.92	8.99	506.1	8	0.04	197.1

* 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

GROUNDWATER SAMPLING LOG

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

Site/GMA Name GMA-3
Sampling Personnel EMB SAB
Date 05-08-07
Weather Sunny, Clear, low 70's

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point _____ Meas. From _____
Well Diameter _____
Screen Interval Depth 7.18 - 17.18 Meas. From _____
Water Table Depth 13.72 Meas. From TIC
Well Depth 19.64 Meas. From TIC
Length of Water Column _____
Volume of Water in Well _____
Intake Depth of Pump/Tubing 14.5 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 1155
Sample ID 111BR
Duplicate ID ~~111BR FF~~
MS/MSD 111BR MS/MSD
Split Sample ID —

Required	Analytical Parameters:	Collected
(X)	VOCs (Std. list)	(X)
( )	VOCs (Exp. list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorganics (Total)	( )
( )	Metals/Inorganics (Dissolved)	( )
( )	EPA Cyanide (Dissolved)	( )
( )	PAC Cyanide (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pesticides/Herbicides	( )
(X)	Natural Attenuation	(X)
( )	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]*
0955	200	0	13.71				248		
1005	200		13.75				>1000		
1010	200		13.74				>1000		
1015	200		13.74				>1000		
1020	200		13.72				>1000		
1025	200		13.73				>1000		
1030	200		13.73				818		
1035	200		13.73				551		

* 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. 111 BR

Site/GMA Name GMA 3 / GE Pittsfield
Sampling Personnel SAB
Date 5/8/07
Weather Sunny

WELL INFORMATION - See Page 1

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]*
1040	200		13.73	—			230		
1045			13.73	—			105		
1050			13.71	—			54		
1055			13.72	—			34		
1100			13.73	12.50	9.19	0.710	27	10.31	202.3
1105			13.73	12.28	8.99	0.714	10	8.41	196.7
1110			13.73	12.34	8.20	0.702	12	8.14	200.2
1115			13.73	12.55	7.95	0.699	8	7.91	202.0
1120			13.72	12.81	7.60	0.698	6	7.77	207.5
1125			13.73	12.42	7.89	0.696	5	7.87	215.6
1130			13.73	12.79	7.76	0.694	4	7.58	222.9
1135			13.73	12.86	7.59	0.693	5	7.46	223.8
1140			13.72	12.89	7.53	0.693	4	7.44	224.2
1145			13.73	12.91	7.52	0.693	4	7.41	224.4
1150			13.73	12.90	7.51	0.692	4	7.38	224.9
Sampled at 1155									

* 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

GROUNDWATER SAMPLING LOG

Well No. 114A
Key No. ~
PID Background (ppm) ~
Well Headspace (ppm) ~

Site/GMA Name GE Pittsfield GMA-3
Sampling Personnel KA
Date 5/10/07
Weather Sun. 80°

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point ____ Meas. From TIC
Well Diameter ____
Screen Interval Depth 45-50 Meas. From BGS
Water Table Depth 9.04 Meas. From TIC
Well Depth 52.17 Meas. From TIC
Length of Water Column ____
Volume of Water in Well ____
Intake Depth of Pump/Tubing 47.5 / 45.0 Meas. From BGS

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

Redevelop? Y N

Sample Time 1630
Sample ID [redacted]-114A
Duplicate ID ~
MS/MSD ~
Split Sample ID ~

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

EVACUATION INFORMATION

Pump Start Time 1440
Pump Stop Time 1635
Minutes of Pumping ____
Volume of Water Removed 2.5
Did Well Go Dry? Y (N)

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

Water Quality Meter Type(s) / Serial Numbers: YSI

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]*
							37		
1445	200		12.4	13.78	8.90	0.311	29	3.66	-186.0
1450	200		15.1	13.08	8.69	0.301	31	2.32	-230.1
1455	200		16.78	13.21	8.90	0.295	32	2.15	-143.2
1500	150		17.75	14.00	8.90	0.293	35	1.95	-174.9
1505	150		18.46	15.22	8.97	0.290	33	1.85	-209.5
1510	150		19.18	15.52	9.00	0.288	41	1.87	-115.0
1515	150		19.84	15.78	9.14	0.277	49	1.91	-62.4

* 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. 114A

Site/GMA Name GE Pittsfield GMA-3
Sampling Personnel KA
Date 5/10/07
Weather Sun 80°

WELL INFORMATION - See Page 1

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]*
1520	150		20.48	16.21	9.09	0.270	49	1.97	-95.0
1525	150		20.89	15.71	9.06	0.264	45	2.09	-192.3
1530	75	~~75~~	20.85	15.48	9.03	0.262	39	2.11	-238.4
1535	75		20.81	16.36	8.90	0257	43	2.01	-245.7
1540	75		20.79	16.23	8.85	0.258	35	2.10	-243.2
1545	75		20.78	16.24	8.80	0.256	32	2.09	-246.5
1550	75		20.76	16.23	8.93	0.257	27	2.08	-231.4
1555	75		20.78	16.13	8.86	0.259	24	2.11	-222.9
1600	75		20.76	16.19	8.80	0.259	22	2.08	-230.2
1605	↓		20.77	16.13	8.81	0.261	21	2.10	-220.0
1610			20.80	16.22	8.80	0.260	20	2.10	-218.0
1615	↓		20.79	16.22	8.80	0.261	19	2.10	-216.7
Sampled at 1630									

* 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

GROUNDWATER SAMPLING LOG

Well No. 114 B-R
Key No. _____
PID Background (ppm) _____
Well Headspace (ppm) _____

Site/GMA Name GMA3/GE Pittsfield
Sampling Personnel KIC, EMC
Date 5/10/07
Weather Sun. 70°

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point _____ Meas. From _____
Well Diameter _____
Screen Interval Depth 4-14 Meas. From _____
Water Table Depth 6.15 Meas. From _____
Well Depth 15.21 Meas. From _____
Length of Water Column _____
Volume of Water in Well _____
Intake Depth of Pump/Tubing 9 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 1600
Sample ID _____
Duplicate ID _____
MS/MSD _____
Split Sample ID _____

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

EVACUATION INFORMATION

Pump Start Time 1440
Pump Stop Time 1630
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 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]*
1415	200		6.19				~~101~~ 101		
1450	200		6.19				54		
1455	200		6.19				52		
1500	200		6.19				42		
1505	200		6.19	13.50	7.29	0.966	46	0.76	-16.3
1510	200		6.19	12.99	5.85	0.964	25	0.31	6.8
1515	200		6.19	12.87	5.60	0.966	20	0.26	4.5
1520	200			12.85	5.58	0.962	13	0.24	0.5

* 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 had organic matter in it.

SAMPLE DESTINATION
Laboratory: _____
Delivered Via: _____
Airbill #: _____

Field Sampling Coordinator: _____

GROUNDWATER SAMPLING LOG

Well No. 114B-R

Site/GMA Name GMA3/GE Pittsfield
Sampling Personnel KIC/EMC
Date 5/10/07
Weather 70's sunny, part cloudy

WELL INFORMATION - See Page 1

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]*
1525	200		6.19	12.84	5.68	0.965	10	0.23	-3.6
1530	200		6.19	11.82	5.81	0.959	8	0.21	-7.4
1535	200		6.19	12.05	5.77	0.958	6	0.20	-11.1
1540	200		6.19	11.77	5.66	0.957	5	0.20	-13.6
1545	200		6.19	11.79	5.78	0.957	4	0.20	-13.2
1550	200		6.19	11.84	5.74	0.957	3	0.20	-18.6
1555	200		6.19	11.87	5.71	0.958	3	0.23	-19.8
Sampled at			1600						

* 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

GROUNDWATER SAMPLING LOG

Well No. 115A
Key No. _____
PID Background (ppm) _____
Well Headspace (ppm) _____

Site/GMA Name GMA 3 / GE Pittsfield
Sampling Personnel K. C
Date 5/14/07
Weather Sunny 60's

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point _____ Meas. From _____
Well Diameter 2"
Screen Interval Depth 36 - 41 Meas. From _____
Water Table Depth 7.62 Meas. From _____
Well Depth 42.52 Meas. From _____
Length of Water Column _____
Volume of Water in Well _____
Intake Depth of Pump/Tubing 38.1 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 1720
Sample ID 115A
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)	( )
( )	EPA Cyanide (Dissolved)	( )
( )	PAC Cyanide (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pesticides/Herbicides	( )
(✓)	Natural Attenuation	(✓)
( )	Other (Specify)	( )

EVACUATION INFORMATION

Pump Start Time 1610
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]*
1615			8.02				61		
1620			7.96				59		
★ 1625			7.82				43		
1630				11.98	8.25	0.292	29	4.05	-288.1
1635				11.61	8.21	0.292	19	3.22	-303.5
1640			7.70	11.75	8.20	0.292	18	3.02	-288.5
1645				11.62	8.19	0.294	15	2.97	-286.4
1650				11.66	8.15	0.293	13	2.94	-291.1

* 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
Slight odor @ initial purge, dark coloration (light grey)
★ recalibrated YSI @ 1625

SAMPLE DESTINATION
Laboratory: _____
Delivered Via: _____
Airbill #: _____

Field Sampling Coordinator: _____

GROUNDWATER SAMPLING LOG

Well No. 115A

Site/GMA Name GMA 3 / GE Pittsfield
Sampling Personnel KIC
Date 5/14/07
Weather Sunny 60's

WELL INFORMATION - See Page 1

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]*
1655				11.86	8.18	0.295	11	2.88	-262.7
1700				11.86	8.19	0.296	11	2.88	-272.7
1705				11.93	8.19	0.295	9	2.82	-272.3
1710				11.68	8.20	0.297	10	2.88	-270.4
1715				11.54	8.19	0.297	9	2.90	-281.9
1720 → Sampled at					1720				

* 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

GROUNDWATER SAMPLING LOG

Well No. 115 B
Key No. EX 37
PID Background (ppm) ___
Well Headspace (ppm) ___

Site/GMA Name GMA 3 / GE Pittsfield
Sampling Personnel EMC / KAB
Date MAY 14, 2007
Weather Sunny 70's

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ___ Meas. From ___
Well Diameter ___
Screen Interval Depth ___ Meas. From ___
11.03 Water Table Depth ~~11.80~~ Meas. From TIC
Well Depth 15.70 Meas. From TIC
Length of Water Column ___
Volume of Water in Well ___
Intake Depth of Pump/Tubing ___ Meas. From ___

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

Redevelop? Y N

Sample Time 1715
Sample ID 115 B
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)	( )
( )	EPA Cyanide (Dissolved)	( )
( )	PAC Cyanide (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pesticides/Herbicides	( )
(✓)	Natural Attenuation	(✓)
( )	Other (Specify)	( )

EVACUATION INFORMATION

Pump Start Time ~~1405~~ 1605
Pump Stop Time 1720
Minutes of Pumping 75
Volume of Water Removed ___
Did Well Go Dry? Y N

Evacuation Method: Bailer ( ) Bladder Pump ( )
Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify ( )
Pump Type: Acopump 2 YSI 556 MPS
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]*
1605	200	~~11.03~~	11.03				207		
1610	200						79		
1615	200		11.18				30		
1620	200		11.18	9.16	7.31	0.572	21	24.19	65.5
1625	200		11.18	8.76	6.07	0.565	9	2.84	85.8
1630	200		11.18	8.58	5.95	0.556	6	1.76	76.8
1635	200		11.18	8.59	5.84	0.548	2	1.31	68.8
1640	200		11.18	8.55	5.89	0.544	~~4~~ 4	1.13	61.5

* 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 sampling high sediments/turbidity

SAMPLE DESTINATION

Laboratory: ___
Delivered Via: ___
Airbill #: ___

Field Sampling Coordinator: ___

GROUNDWATER SAMPLING LOG

Well No. 115B

Site/GMA Name GMA3 / GE Pittsfield
Sampling Personnel RAB / EMC
Date MAY 14, 2007
Weather Sunny 70s

WELL INFORMATION - See Page 1

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]*
1645	200		11.19	8.57	5.86	0.537	4	1.00	56.5
1650	200		11.19	8.62	5.87	0.536	3	0.94	55.0
1655	200		11.19	8.64	5.89	0.529	2	0.90	53.2
1700	200		11.19	8.57	5.90	0.529	3	0.86	48.9

* 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

ARCADIS BBL

Appendix D

Spring 2007 Groundwater
Analytical Results

Table D-1
Spring 2007 Groundwater Analytical Results

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	2A 05/14/07	16A 05/07/07	16B-R 05/08/07	16C-R 05/07/07
Volatile Organics				
1,1,1,2-Tetrachloroethane	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,1,1-Trichloroethane	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,1,2,2-Tetrachloroethane	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,1,2-Trichloroethane	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,1-Dichloroethane	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,1-Dichloroethene	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2,3-Trichloropropane	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2-Dibromo-3-chloropropane	ND(40) J	ND(4.0) J	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
1,2-Dibromoethane	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2-Dichloroethane	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2-Dichloropropane	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,4-Dioxane	ND(800) J	ND(80) J	ND(0.10) J [ND(0.10) J]	ND(0.10) J
2-Butanone	ND(40) J	ND(4.0)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
2-Chloro-1,3-butadiene	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
2-Chloroethylvinylether	ND(100) J	ND(10) J	ND(0.013) J [ND(0.013) J]	ND(0.013) J
2-Hexanone	ND(40)	ND(4.0)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
3-Chloropropene	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
4-Methyl-2-pentanone	ND(40)	ND(4.0)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Acetone	ND(40) J	ND(4.0) J	0.0072 J [0.0035 J]	ND(0.0050) J
Acetonitrile	ND(160) J	ND(16) J	ND(0.020) J [ND(0.020) J]	ND(0.020) J
Acrolein	ND(200) J	ND(20) J	ND(0.025) J [ND(0.025) J]	ND(0.025) J
Acrylonitrile	ND(200) J	ND(20) J	ND(0.025) J [ND(0.025) J]	ND(0.025) J
Benzene	38	15	0.0014 [0.0012]	0.0027
Bromodichloromethane	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Bromoform	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Bromomethane	ND(8.0)	ND(0.80) J	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Carbon Disulfide	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Carbon Tetrachloride	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chlorobenzene	170	40	0.0051 J [0.0024 J]	0.015
Chloroethane	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chloroform	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chloromethane	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
cis-1,3-Dichloropropene	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Dibromochloromethane	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Dibromomethane	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Dichlorodifluoromethane	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Ethyl Methacrylate	ND(8.0) J	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Ethylbenzene	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Iodomethane	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Isobutanol	ND(400) J	ND(40) J	ND(0.050) J [ND(0.050) J]	ND(0.050) J
Methacrylonitrile	ND(80) J	ND(8.0)	ND(0.010) [ND(0.010)]	ND(0.010)
Methyl Methacrylate	ND(8.0) J	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Methylene Chloride	ND(40)	ND(4.0)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Propionitrile	ND(160)	ND(16) J	ND(0.020) J [ND(0.020) J]	ND(0.020) J
Styrene	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Tetrachloroethene	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Toluene	6.6 J	0.84	ND(0.0010) [ND(0.0010)]	0.00023 J
trans-1,2-Dichloroethene	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
trans-1,3-Dichloropropene	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
trans-1,4-Dichloro-2-butene	ND(40)	ND(4.0)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Trichloroethene	14	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Trichlorofluoromethane	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Vinyl Acetate	ND(20)	ND(2.0)	ND(0.0025) [ND(0.0025)]	ND(0.0025)
Vinyl Chloride	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Xylenes (total)	ND(8.0)	ND(0.80)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Total VOCs	230 J	56	0.014 J [0.0071 J]	0.018

Table D-1
Spring 2007 Groundwater Analytical Results

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	2A 05/14/07	16A 05/07/07	16B-R 05/08/07	16C-R 05/07/07
Semivolatile Organics				
2-Chlorophenol	ND(0.010)	0.028 J	NA	NA
4-Chlorophenol	ND(0.010) J	ND(0.050) J	NA	NA
Natural Attenuation Parameters				
Alkalinity	180	450	520 [530]	130
Chloride	10	1800	300 [280]	1.1
Dissolved Iron	ND(0.100) J	1.07	ND(0.100) [ND(0.100)]	ND(0.100)
Dissolved Organic Carbon	3.80	36.0	6.80 [6.80]	ND(1.00)
Ethane	ND(0.020)	ND(0.020)	ND(0.020) [ND(0.040)]	ND(0.020)
Ethene	ND(0.020)	0.35	ND(0.020) [ND(0.040)]	ND(0.020)
Methane	ND(0.00720)	0.793	1.05 [1.13]	ND(0.00720)
Nitrate Nitrogen	ND(0.0500)	ND(0.0500)	ND(0.0500) [ND(0.0500)]	0.120
Nitrite Nitrogen	0.0760	ND(0.100)	ND(0.100) [ND(0.10) J]	ND(0.0100)
Sulfate (turbidimetric)	25.0	ND(2.00)	14.0 [12.0]	6.40

Table D-1
Spring 2007 Groundwater Analytical Results

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	39B-R 05/07/07	39D-R 05/14/07	39E 05/14/07	43A 05/09/07	43B 05/09/07
Volatile Organics					
1,1,1,2-Tetrachloroethane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,1-Trichloroethane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,2,2-Tetrachloroethane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,2-Trichloroethane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dibromo-3-chloropropane	ND(2.0) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
1,2-Dibromoethane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	ND(0.40)	ND(0.0010) J	ND(0.0010) J	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	ND(40) J	ND(0.10) J	ND(0.10) J	0.19 J	ND(0.10) J
2-Butanone	ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050) J	ND(0.0050)
2-Chloro-1,3-butadiene	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
2-Chloroethylvinylether	ND(5.0) J	ND(0.013) J	ND(0.013) J	ND(0.013) J	ND(0.013) J
2-Hexanone	ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3-Chloropropene	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
4-Methyl-2-pentanone	ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Acetone	ND(2.0) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Acetonitrile	ND(8.0) J	ND(0.020) J	ND(0.020) J	ND(0.020) J	ND(0.020) J
Acrolein	ND(10) J	ND(0.025) J	ND(0.025) J	ND(0.025) J	ND(0.025) J
Acrylonitrile	ND(10) J	ND(0.025) J	ND(0.025) J	ND(0.025) J	ND(0.025) J
Benzene	0.66	ND(0.0010)	0.00031 J	ND(0.0010)	ND(0.0010)
Bromodichloromethane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromoform	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromomethane	ND(0.40) J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Tetrachloride	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chlorobenzene	11	0.014	0.00051 J	ND(0.0010)	ND(0.0010)
Chloroethane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010) J	ND(0.0010)
Chloroform	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane	ND(0.40)	0.00046 J	0.00053 J	ND(0.0010)	0.00050 J
cis-1,3-Dichloropropene	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dibromochloromethane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dibromomethane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dichlorodifluoromethane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethyl Methacrylate	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Iodomethane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol	ND(20) J	ND(0.050) J	ND(0.050) J	ND(0.050) J	ND(0.050) J
Methacrylonitrile	ND(4.0)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Methyl Methacrylate	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Methylene Chloride	ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Propionitrile	ND(8.0) J	ND(0.020) J	ND(0.020) J	ND(0.020) J	ND(0.020) J
Styrene	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	0.10 J	ND(0.0010)	0.00067 J	0.00067 J	ND(0.0010)
trans-1,2-Dichloroethene	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,3-Dichloropropene	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	ND(2.0)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	0.092 J	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichlorofluoromethane	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Acetate	ND(1.0)	ND(0.0025)	ND(0.0025)	ND(0.0025)	ND(0.0025)
Vinyl Chloride	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Xylenes (total)	ND(0.40)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total VOCs	12	0.014 J	0.0020 J	0.19 J	0.00050 J

Table D-1
Spring 2007 Groundwater Analytical Results

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	39B-R 05/07/07	39D-R 05/14/07	39E 05/14/07	43A 05/09/07	43B 05/09/07
Semivolatile Organics					
2-Chlorophenol	ND(0.050)	NA	NA	NA	NA
4-Chlorophenol	ND(0.050) J	NA	NA	NA	NA
Natural Attenuation Parameters					
Alkalinity	310	130	21.0	490	590
Chloride	98	5.5	170	25	59
Dissolved Iron	0.0121 B	ND(0.100) J	0.0364 J	ND(0.100) J	ND(0.100) J
Dissolved Organic Carbon	6.50	ND(1.00)	2.00	1.80	2.50
Ethane	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.20)
Ethene	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.20)
Methane	0.162	ND(0.00720)	ND(0.00720)	0.0460	0.802
Nitrate Nitrogen	0.310	ND(0.0500)	0.670	ND(0.0500)	ND(0.0500)
Nitrite Nitrogen	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)
Sulfate (turbidimetric)	7.30	22.0	4.80	93.0	ND(2.00)

Table D-1
Spring 2007 Groundwater Analytical Results

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	89A 05/09/07	89B 05/09/07	89D-R 05/09/07	90A 05/08/07	90B 05/08/07
Volatile Organics					
1,1,1,2-Tetrachloroethane	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
1,1,1-Trichloroethane	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
1,1,2,2-Tetrachloroethane	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
1,1,2-Trichloroethane	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
1,2-Dibromo-3-chloropropane	ND(0.40) J	ND(0.025) J	ND(4.0) J	ND(0.0050) J	ND(0.0050) J
1,2-Dibromoethane	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	ND(8.0) J	ND(0.50) J	ND(80) J	ND(0.10) J	ND(0.10) J
2-Butanone	ND(0.40) J	ND(0.025) J	ND(4.0) J	ND(0.0050)	ND(0.0050)
2-Chloro-1,3-butadiene	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
2-Chloroethylvinylether	ND(1.0) J	ND(0.063) J	ND(10) J	ND(0.013) J	ND(0.013) J
2-Hexanone	ND(0.40)	ND(0.025)	ND(4.0)	ND(0.0050)	ND(0.0050)
3-Chloropropene	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
4-Methyl-2-pentanone	ND(0.40)	ND(0.025)	ND(4.0)	ND(0.0050)	ND(0.0050)
Acetone	ND(0.40) J	ND(0.025) J	ND(4.0) J	ND(0.0050) J	ND(0.0050) J
Acetonitrile	ND(1.6) J	ND(0.10) J	ND(16) J	ND(0.020) J	ND(0.020) J
Acrolein	ND(2.0) J	ND(0.13) J	ND(20) J	ND(0.025) J	ND(0.025) J
Acrylonitrile	ND(2.0) J	ND(0.13) J	ND(20) J	ND(0.025) J	ND(0.025) J
Benzene	0.33	0.017	8.3	ND(0.0010)	0.00027 J
Bromodichloromethane	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Bromoform	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Bromomethane	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Carbon Tetrachloride	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Chlorobenzene	2.5	0.15	31	0.0011	0.0017
Chloroethane	ND(0.080) J	ND(0.0050) J	ND(0.80) J	ND(0.0010)	ND(0.0010)
Chloroform	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Chloromethane	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
cis-1,3-Dichloropropene	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Dibromochloromethane	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Dibromomethane	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Dichlorodifluoromethane	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Ethyl Methacrylate	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Ethylbenzene	0.076 J	ND(0.0050)	0.75 J	ND(0.0010)	ND(0.0010)
Iodomethane	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Isobutanol	ND(4.0) J	ND(0.25) J	ND(40) J	ND(0.050) J	ND(0.050) J
Methacrylonitrile	ND(0.80)	ND(0.050)	ND(8.0)	ND(0.010)	ND(0.010)
Methyl Methacrylate	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Methylene Chloride	ND(0.40)	ND(0.025)	ND(4.0)	ND(0.0050)	ND(0.0050)
Propionitrile	ND(1.6) J	ND(0.10) J	ND(16) J	ND(0.020) J	ND(0.020) J
Styrene	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Toluene	ND(0.080)	ND(0.0050)	0.54 J	ND(0.0010)	ND(0.0010)
trans-1,2-Dichloroethene	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
trans-1,3-Dichloropropene	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	ND(0.40)	ND(0.025)	ND(4.0)	ND(0.0050)	ND(0.0050)
Trichloroethene	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Trichlorofluoromethane	ND(0.080)	ND(0.0050)	ND(0.80)	ND(0.0010)	ND(0.0010)
Vinyl Acetate	ND(0.20)	ND(0.013)	ND(2.0)	ND(0.0025)	ND(0.0025)
Vinyl Chloride	ND(0.080)	ND(0.0050)	0.98	ND(0.0010)	ND(0.0010)
Xylenes (total)	0.056 J	ND(0.0050)	1.9	ND(0.0010)	ND(0.0010)
Total VOCs	3.0 J	0.17	43 J	0.0011	0.0020 J

Table D-1
Spring 2007 Groundwater Analytical Results

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	89A 05/09/07	89B 05/09/07	89D-R 05/09/07	90A 05/08/07	90B 05/08/07
Semivolatile Organics					
2-Chlorophenol	0.0072 J	ND(0.010)	NA	NA	NA
4-Chlorophenol	ND(0.010) J	ND(0.010) J	NA	NA	NA
Natural Attenuation Parameters					
Alkalinity	360	170	330	160	130
Chloride	440	140	630	9.3	8.0
Dissolved Iron	ND(0.100) J	ND(0.100) J	ND(0.100) J	0.0670 B	3.62
Dissolved Organic Carbon	5.60	2.60	9.20	ND(1.00)	4.80
Ethane	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Ethene	ND(0.020)	ND(0.020)	0.80	ND(0.020)	ND(0.020)
Methane	0.738	0.188	1.06	0.108	0.0830
Nitrate Nitrogen	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Nitrite Nitrogen	ND(0.100)	ND(0.0100)	ND(0.100)	ND(0.0100)	ND(0.0100)
Sulfate (turbidimetric)	ND(2.00)	7.50	2.80	21.0	2.00

Table D-1
Spring 2007 Groundwater Analytical Results

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	95A 05/10/07	95B-R 05/10/07	111A-R 05/07/07	111B-R 05/08/07
Volatile Organics				
1,1,1,2-Tetrachloroethane	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
1,1,1-Trichloroethane	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
1,1,2,2-Tetrachloroethane	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
1,1,2-Trichloroethane	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
1,2-Dibromo-3-chloropropane	ND(0.0050) J [ND(0.0050) J]	ND(2.0) J	ND(0.0050) J	ND(0.0050) J
1,2-Dibromoethane	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropane	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	ND(0.10) J [ND(0.10) J]	ND(40) J	ND(0.10) J	ND(0.10) J
2-Butanone	ND(0.0050) [ND(0.0050)]	ND(2.0) J	ND(0.0050)	ND(0.0050)
2-Chloro-1,3-butadiene	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
2-Chloroethylvinylether	ND(0.013) J [ND(0.013) J]	ND(5.0) J	ND(0.013) J	ND(0.013) J
2-Hexanone	ND(0.0050) [ND(0.0050)]	ND(2.0)	ND(0.0050)	ND(0.0050)
3-Chloropropene	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
4-Methyl-2-pentanone	ND(0.0050) [ND(0.0050)]	ND(2.0)	ND(0.0050)	ND(0.0050)
Acetone	ND(0.0050) J [ND(0.0050) J]	ND(2.0) J	ND(0.0050) J	ND(0.0050) J
Acetonitrile	ND(0.020) J [ND(0.020) J]	ND(8.0) J	ND(0.020) J	ND(0.020) J
Acrolein	ND(0.025) J [ND(0.025) J]	ND(10) J	ND(0.025) J	ND(0.025) J
Acrylonitrile	ND(0.025) J [ND(0.025) J]	ND(10) J	ND(0.025) J	ND(0.025) J
Benzene	ND(0.0010) [ND(0.0010)]	2.3	ND(0.0010)	0.00038 J
Bromodichloromethane	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Bromoform	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Bromomethane	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010) J	ND(0.0010)
Carbon Disulfide	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Carbon Tetrachloride	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Chlorobenzene	ND(0.0010) [ND(0.0010)]	9.7	ND(0.0010)	0.0020 J
Chloroethane	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Chloroform	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Chloromethane	0.00049 J [0.00063 J]	ND(0.40)	ND(0.0010)	ND(0.0010)
cis-1,3-Dichloropropene	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Dibromochloromethane	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Dibromomethane	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Dichlorodifluoromethane	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Ethyl Methacrylate	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Ethylbenzene	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Iodomethane	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Isobutanol	ND(0.050) J [ND(0.050) J]	ND(20) J	ND(0.050) J	ND(0.050) J
Methacrylonitrile	ND(0.010) [ND(0.010)]	ND(4.0)	ND(0.010)	ND(0.010)
Methyl Methacrylate	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Methylene Chloride	ND(0.0050) [ND(0.0050)]	ND(2.0)	ND(0.0050)	ND(0.0050)
Propionitrile	ND(0.020) J [ND(0.020) J]	ND(8.0) J	ND(0.020) J	ND(0.020) J
Styrene	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Toluene	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
trans-1,2-Dichloroethene	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
trans-1,3-Dichloropropene	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	ND(0.0050) [ND(0.0050)]	ND(2.0)	ND(0.0050)	ND(0.0050)
Trichloroethene	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Trichlorofluoromethane	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Vinyl Acetate	ND(0.0025) [ND(0.0025)]	ND(1.0)	ND(0.0025)	ND(0.0025)
Vinyl Chloride	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Xylenes (total)	ND(0.0010) [ND(0.0010)]	ND(0.40)	ND(0.0010)	ND(0.0010)
Total VOCs	0.00049 J [0.00063 J]	12	ND(0.10)	0.0024 J

Table D-1
Spring 2007 Groundwater Analytical Results

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	95A 05/10/07	95B-R 05/10/07	111A-R 05/07/07	111B-R 05/08/07
Semivolatile Organics				
2-Chlorophenol	ND(0.010) [ND(0.010)]	0.0090 J	NA	NA
4-Chlorophenol	ND(0.010) J [ND(0.010) J]	0.020 J	NA	NA
Natural Attenuation Parameters				
Alkalinity	130 [130]	260	140	150
Chloride	1.4 [1.4]	140	92	11
Dissolved Iron	ND(0.100) J [ND(0.100) J]	ND(0.100) J	0.0101 B	ND(0.100)
Dissolved Organic Carbon	ND(1.00) [ND(1.00)]	4.30	1.20	1.10
Ethane	ND(0.020) [ND(0.020)]	0.051	ND(0.020)	ND(0.020)
Ethene	ND(0.020) [ND(0.020)]	0.044	ND(0.020)	ND(0.020)
Methane	0.134 [0.0880]	1.57	ND(0.00720)	ND(0.00720)
Nitrate Nitrogen	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)	5.90
Nitrite Nitrogen	ND(0.0100) [ND(0.0100)]	ND(0.100)	ND(0.0100)	ND(0.0100)
Sulfate (turbidimetric)	4.40 [4.20]	3.80	71.0	190

Table D-1
Spring 2007 Groundwater Analytical Results

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	114A 05/10/07	114B-R 05/10/07	115A 05/14/07	115B 05/14/07
Volatile Organics				
1,1,1,2-Tetrachloroethane	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
1,1,1-Trichloroethane	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
1,1,2,2-Tetrachloroethane	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
1,1,2-Trichloroethane	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethene	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
1,2-Dibromo-3-chloropropane	ND(0.0050) J	ND(0.40) J	ND(0.0050) J	ND(0.0050) J
1,2-Dibromoethane	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	ND(0.0010)	ND(0.080)	ND(0.0010) J	ND(0.0010) J
1,2-Dichloropropane	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
1,4-Dioxane	ND(0.10) J	ND(8.0) J	ND(0.10) J	ND(0.10) J
2-Butanone	ND(0.0050)	ND(0.40) J	ND(0.0050)	ND(0.0050)
2-Chloro-1,3-butadiene	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
2-Chloroethylvinylether	ND(0.013) J	ND(1.0) J	ND(0.013) J	ND(0.013) J
2-Hexanone	ND(0.0050)	ND(0.40)	ND(0.0050)	ND(0.0050)
3-Chloropropene	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
4-Methyl-2-pentanone	ND(0.0050)	ND(0.40)	ND(0.0050)	ND(0.0050)
Acetone	ND(0.0050) J	ND(0.40) J	ND(0.0050) J	ND(0.0050) J
Acetonitrile	ND(0.020) J	ND(1.6) J	ND(0.020) J	ND(0.020) J
Acrolein	ND(0.025) J	ND(2.0) J	ND(0.025) J	ND(0.025) J
Acrylonitrile	ND(0.025) J	ND(2.0) J	ND(0.025) J	ND(0.025) J
Benzene	ND(0.0010)	0.10	ND(0.0010)	ND(0.0010)
Bromodichloromethane	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Bromoform	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Bromomethane	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Carbon Disulfide	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Carbon Tetrachloride	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Chlorobenzene	ND(0.0010)	2.0	ND(0.0010)	ND(0.0010)
Chloroethane	ND(0.0010)	ND(0.080) J	ND(0.0010)	ND(0.0010)
Chloroform	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Chloromethane	0.00070 J	ND(0.080)	0.00040 J	0.00055 J
cis-1,3-Dichloropropene	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Dibromochloromethane	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Dibromomethane	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Dichlorodifluoromethane	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Ethyl Methacrylate	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Ethylbenzene	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Iodomethane	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Isobutanol	ND(0.050) J	ND(4.0) J	ND(0.050) J	ND(0.050) J
Methacrylonitrile	ND(0.010)	ND(0.80)	ND(0.010)	ND(0.010)
Methyl Methacrylate	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Methylene Chloride	ND(0.0050)	ND(0.40)	ND(0.0050)	ND(0.0050)
Propionitrile	ND(0.020) J	ND(1.6) J	ND(0.020) J	ND(0.020) J
Styrene	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Toluene	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
trans-1,2-Dichloroethene	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
trans-1,3-Dichloropropene	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene	ND(0.0050)	ND(0.40)	ND(0.0050)	ND(0.0050)
Trichloroethene	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Trichlorofluoromethane	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Vinyl Acetate	ND(0.0025)	ND(0.20)	ND(0.0025)	ND(0.0025)
Vinyl Chloride	ND(0.0010)	0.11	ND(0.0010)	ND(0.0010)
Xylenes (total)	ND(0.0010)	ND(0.080)	ND(0.0010)	ND(0.0010)
Total VOCs	0.00070 J	2.2	0.00040 J	0.00055 J

Table D-1
Spring 2007 Groundwater Analytical Results

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Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	114A 05/10/07	114B-R 05/10/07	115A 05/14/07	115B 05/14/07
Semivolatile Organics				
2-Chlorophenol	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA
Natural Attenuation Parameters				
Alkalinity	130	210	160	250
Chloride	3.8	170	1.2	13
Dissolved Iron	0.0434 J	ND(0.100) J	ND(0.100) J	ND(0.100) J
Dissolved Organic Carbon	1.20	2.50	ND(1.00)	ND(1.00)
Ethane	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Ethene	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Methane	0.285	0.205	ND(0.00720)	ND(0.00720)
Nitrate Nitrogen	ND(0.0500)	ND(0.0500)	ND(0.0500)	0.110
Nitrite Nitrogen	ND(0.0100)	ND(0.0500)	ND(0.0100)	ND(0.0100)
Sulfate (turbidimetric)	3.40	12.0	4.20	14.0

Notes:

1. Samples were collected by ARCADIS BBL, and submitted to SGS Environmental Services, Inc. for analysis of volatiles, selected semivolatiles and natural attenuation parameters.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS BBL (approved March 15, 2007 and re-submitted March 30, 2007).
3. NA - Not Analyzed.
4. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.
5. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, semivolatiles)
J - Indicates that the associated numerical value is an estimated concentration.

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

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Appendix E

Historical Groundwater Data

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Location ID: / Sample ID: / Date Collected:	2A UBG02A 01/09/97	2A UBG2AX (Bailer) 01/09/97	2A UBG2A 04/30/97	2A UBG2AX (Bailer) 04/30/97	2A UBG2A 10/09/97	2A UBG02A 04/21/98	2A UBG2A 12/22/98
Volatile Organics							
Benzene	34	34 D	45	45	41	46	43
Chlorobenzene	110	100 D	140	150	150	130 DE	190
Trichloroethene	7.6	11	13	13	9.9	8.9	11
Vinyl Chloride	ND(10)	ND(2.0)	ND(12)	ND(12)	ND(10)	ND(3.3)	ND(10)
Total VOCs	150 J	150	200 J	210 J	200 J	350 J	250 J
Semivolatile Organics							
2-Chlorophenol	NA	NA	0.0010 J	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	2.1
Natural Attenuation Parameters							
Alkalinity (Total)	NA	NA	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	240	NA	240	NA	NA	NA	254
Alkalinity to pH 8.3	ND(1.00)	NA	ND(1.00)	NA	NA	NA	ND(1.00)
Ammonia Nitrogen	0.0900	NA	0.150	NA	NA	NA	ND(0.200)
Chloride	43	NA	36	NA	NA	NA	29
Dissolved Iron	NA	NA	NA	NA	NA	NA	ND(0.100)
Dissolved Organic Carbon	3.90	NA	3.50	NA	NA	NA	1.60
Ethane	ND(0.0050)	NA	ND(0.0050)	NA	NA	NA	ND(0.0050)
Ethene	ND(0.0050)	NA	ND(0.0050)	NA	NA	NA	ND(0.0050)
Methane	ND(0.00500)	NA	ND(0.00500)	NA	NA	NA	ND(0.00500)
Nitrate Nitrogen	NA	NA	NA	NA	NA	NA	NA
Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA
Sulfate (turbidimetric)	47.6	NA	47.2	NA	NA	NA	37.6
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	1.30

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID:	2A	2A	2A	2A	2A	2A	2A	2A
Sample ID:	2A	2A	2A	2A	002A	2A	2A	2A
Parameter / Date Collected:	04/30/99	10/20/99	05/12/00	11/17/00	04/23/02	04/12/04	04/07/05	04/19/06
Volatile Organics								
Benzene	41	29 D	17	31	4.4	21	27	34
Chlorobenzene	180	190 D	110	96	8.2	81	120	160
Trichloroethene	9.8 J	7.3 DJ	ND(5.0)	11	0.47	8.4	12	11
Vinyl Chloride	ND(12)	ND(0.10)	ND(10)	ND(0.010)	ND(0.0050)	ND(5.0)	ND(5.0)	ND(0.20)
Total VOCs	240 J	230 J	130	140	13	110	160	210
Semivolatile Organics								
2-Chlorophenol	NA	NA	NA	NA	NA	ND(0.010)	ND(0.010)	ND(0.010)
4-Chlorophenol	NA	NA	NA	NA	NA	ND(0.010)	1.8	1.9
Natural Attenuation Parameters								
Alkalinity (Total)	NA	NA	NA	NA	140	190	180	180
Alkalinity to pH 4.5	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	40	16	10	8.0
Dissolved Iron	NA	NA	NA	NA	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.100)
Dissolved Organic Carbon	NA	NA	NA	NA	11.0	3.10	0.750 B	1.90
Ethane	NA	NA	NA	NA	0.017	0.0045	ND(0.0040)	ND(0.020)
Ethene	NA	NA	NA	NA	0.30	0.017	ND(0.0030)	ND(0.020)
Methane	NA	NA	NA	NA	0.0450	0.0110	ND(0.00200)	ND(0.00720)
Nitrate Nitrogen	NA	NA	NA	NA	0.0490 B	0.0170 B	0.0380 B	ND(0.100)
Nitrite Nitrogen	NA	NA	NA	NA	0.00300 B	0.0440 B	0.0820	ND(0.500)
Sulfate (turbidimetric)	NA	NA	NA	NA	30.0	26.0	21.0	20.0
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Location ID: / Sample ID: / Date Collected:	2A 2A 05/14/07	16A PUEXG16A 02/22/91	16A UBG16A 12/13/96	16A UBG16AX (Bailer) 12/13/96	16A UBG16A 04/28/97	16A UBG16AX (Bailer) 04/28/97
Volatile Organics						
Benzene	38	17	20	15	13 [14]	8.1
Chlorobenzene	170	65	41	30	36 D [33 D]	11
Trichloroethene	14	ND(0.0050)	ND(1.3)	ND(1.0)	0.086 J [ND(0.42)]	ND(0.42)
Vinyl Chloride	ND(8.0)	ND(0.010)	ND(2.5)	ND(2.0)	0.15 J [0.14 J]	ND(0.83)
Total VOCs	230 J	82	62 J	46	54 J [51]	21 J
Semivolatile Organics						
2-Chlorophenol	ND(0.010)	NA	0.035	NA	NA	NA
4-Chlorophenol	ND(0.010) J	NA	NA	NA	NA	NA
Natural Attenuation Parameters						
Alkalinity (Total)	180	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	NA	NA	420	NA	424	NA
Alkalinity to pH 8.3	NA	NA	ND(1.00)	NA	ND(1.00)	NA
Ammonia Nitrogen	NA	NA	0.310	NA	0.320	NA
Chloride	10	NA	2400	NA	3300	NA
Dissolved Iron	ND(0.100) J	NA	NA	NA	NA	NA
Dissolved Organic Carbon	3.80	NA	35.0	NA	35.1	NA
Ethane	ND(0.020)	NA	ND(0.0050)	NA	ND(0.0050)	NA
Ethene	ND(0.020)	NA	0.13	NA	0.26	NA
Methane	ND(0.00720)	NA	0.730	NA	1.50	NA
Nitrate Nitrogen	ND(0.0500)	NA	NA	NA	NA	NA
Nitrite Nitrogen	0.0760	NA	NA	NA	NA	NA
Sulfate (turbidimetric)	25.0	NA	2.20	NA	ND(2.00)	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:							
	16A / UBG16A / 10/08/97	16A / UBG16A / 04/14/98	16A / UBG16A / 12/14/98	16A / 16A / 04/27/99	16A / 16A / 10/19/99	16A / 16A / 05/12/00	16A / 16A / 11/17/00	16A / 16A / 04/26/02
Volatile Organics								
Benzene	19	17	94	17	16 D	14	16	7.5
Chlorobenzene	38	33 D	220	33	42 D	47	37	16
Trichloroethene	ND(1.3)	ND(0.62)	ND(17)	ND(3.3)	0.010	ND(10)	0.017	ND(0.010)
Vinyl Chloride	ND(2.5)	ND(1.2)	ND(17)	ND(3.3)	0.064	ND(20)	0.072	0.16
Total VOCs	58 J	51	320 J	51 J	59 J	61	53	24
Semivolatile Organics								
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters								
Alkalinity (Total)	NA	NA	NA	NA	NA	NA	NA	490
Alkalinity to pH 4.5	NA	NA	474	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	NA	NA	ND(1.00)	NA	NA	NA	NA	NA
Ammonia Nitrogen	NA	NA	ND(0.200)	NA	NA	NA	NA	NA
Chloride	NA	NA	2400	NA	NA	NA	NA	1700
Dissolved Iron	NA	NA	1.00	NA	NA	NA	NA	1.30
Dissolved Organic Carbon	NA	NA	37.2	NA	NA	NA	NA	59.0
Ethane	NA	NA	ND(0.0050)	NA	NA	NA	NA	ND(0.050)
Ethene	NA	NA	ND(0.25)	NA	NA	NA	NA	0.15
Methane	NA	NA	1.10	NA	NA	NA	NA	1.40
Nitrate Nitrogen	NA	NA	NA	NA	NA	NA	NA	0.0140 B
Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA	ND(0.0500)
Sulfate (turbidimetric)	NA	NA	ND(2.00)	NA	NA	NA	NA	5.30
Total Nitrate/Nitrite Nitrogen	NA	NA	ND(0.100)	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:	16A / 16A / 04/14/04	16A / 16A / 04/08/05	16A / 16A / 04/20/06	16A / 16A / 05/07/07	16B / UBG16B / 12/13/96	16B / UBG16B / 04/28/97	16B / UBG16BX (Bailer) / 04/28/97
Volatile Organics								
Benzene		13	13	14	15	0.0040 J	0.011	0.014
Chlorobenzene		24	26	31	40	0.0050 J	0.010	0.016
Trichloroethene		ND(0.50)	ND(1.0)	ND(5.0)	ND(0.80)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride		ND(0.50)	ND(1.0)	ND(2.0)	ND(0.80)	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs		38	39	46 J	56	0.0090 J	0.062 J	0.056 J
Semivolatile Organics								
2-Chlorophenol		0.027	0.035	0.019	0.028 J	ND(0.015)	NA	NA
4-Chlorophenol		ND(0.010)	0.60	0.55	ND(0.050) J	NA	NA	NA
Natural Attenuation Parameters								
Alkalinity (Total)		470	460	430	450	NA	NA	NA
Alkalinity to pH 4.5		NA	NA	NA	NA	243	263	NA
Alkalinity to pH 8.3		NA	NA	NA	NA	ND(1.00)	ND(1.00)	NA
Ammonia Nitrogen		NA	NA	NA	NA	8.23	8.89	NA
Chloride		1900	1300	1400	1800	53	63	NA
Dissolved Iron		0.640	0.940	1.20	1.07	NA	NA	NA
Dissolved Organic Carbon		38.0	28.0	25.0	36.0	7.00	7.90	NA
Ethane		ND(0.020)	ND(0.0040)	ND(0.20)	ND(0.020)	ND(0.030)	ND(0.10)	NA
Ethene		0.23	ND(0.0030)	0.23	0.35	ND(0.0050)	ND(0.0050)	NA
Methane		1.30	0.330	3.10	0.793	2.80	ND(0.00500)	NA
Nitrate Nitrogen		0.0170 B	0.00950 B	ND(0.100)	ND(0.0500)	NA	NA	NA
Nitrite Nitrogen		ND(0.0500)	0.00280 B	ND(0.500)	ND(0.100)	NA	NA	NA
Sulfate (turbidimetric)		1.60 B	0.540 B	ND(5.00)	ND(2.00)	ND(8.00)	ND(8.00)	NA
Total Nitrate/Nitrite Nitrogen		NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:						
	Location ID:	16B	16B	16B-R	16B-R	16B-R	16B-R
	Sample ID:	UBG16B	UBG16B	16B-R	16B-R	16B-R	16B-R
Parameter	Date Collected:	10/09/97	04/14/98	04/26/02	04/15/04	10/07/04	04/08/05
Volatile Organics							
Benzene		0.0030 J	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050) [ND(0.0050)]	0.0033 J
Chlorobenzene		0.0020 J	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.00052 J [0.00056 J]	0.015
Trichloroethene		ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.00061 J [0.00064 J]	ND(0.0050)
Vinyl Chloride		ND(0.010)	ND(0.010)	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020) [ND(0.0020)]	ND(0.0020)
Total VOCs		0.0050 J	0.0020 J	ND(0.20) [ND(0.20)]	ND(0.20)	0.0011 J [0.0012 J]	0.018 J
Semivolatile Organics							
2-Chlorophenol		NA	NA	NA	NA	NA	NA
4-Chlorophenol		NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)		NA	NA	480 [480]	510	NA	440
Alkalinity to pH 4.5		NA	NA	NA	NA	NA	NA
Alkalinity to pH 8.3		NA	NA	NA	NA	NA	NA
Ammonia Nitrogen		NA	NA	NA	NA	NA	NA
Chloride		NA	NA	290 [280]	270	NA	160
Dissolved Iron		NA	NA	0.360 [ND(0.0500)]	ND(0.0500)	NA	ND(0.0500)
Dissolved Organic Carbon		NA	NA	11.0 [15.0]	11.0	NA	5.70
Ethane		NA	NA	ND(0.10) [ND(0.20)]	ND(0.020)	NA	ND(0.0040)
Ethene		NA	NA	ND(0.10) [ND(0.20)]	ND(0.015)	NA	0.12
Methane		NA	NA	2.70 [2.70]	0.740	NA	0.690
Nitrate Nitrogen		NA	NA	0.0270 B [0.0320 B]	0.100	NA	0.0560
Nitrite Nitrogen		NA	NA	0.00360 B [0.00340 B]	ND(0.0500)	NA	0.00900 B
Sulfate (turbidimetric)		NA	NA	15.0 [16.0]	23.0	NA	35.0
Total Nitrate/Nitrite Nitrogen		NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID: / Sample ID: / Parameter / Date Collected:	16B-R 16B-R 10/20/05	16B-R 16B-R 04/20/06	16B-R 16B-R 05/08/07	16C PUEXG16C 02/22/91	16C UBG16C 12/17/96	16C UBG16C 04/28/97	16C UBG16C 10/09/97
Volatile Organics							
Benzene	ND(0.0050)	0.012 J	0.0014 [0.0012]	0.076	ND(0.010)	0.0030 J	0.0040 J
Chlorobenzene	ND(0.0050)	0.051 J	0.0051 J [0.0024 J]	0.16	ND(0.010)	0.0030 J	ND(0.010)
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0010) [ND(0.0010)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	0.0015 J	ND(0.0020)	ND(0.0010) [ND(0.0010)]	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	0.0015 J	0.063 J	0.014 J [0.0071 J]	0.27 J	0.0040 J	0.0060 J	0.012 J
Semivolatile Organics							
2-Chlorophenol	NA	NA	NA	NA	ND(0.015)	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)	NA	490	520 [530]	NA	NA	NA	NA
Alkalinity to pH 4.5	NA	NA	NA	NA	113	102	NA
Alkalinity to pH 8.3	NA	NA	NA	NA	ND(1.00)	ND(1.00)	NA
Ammonia Nitrogen	NA	NA	NA	NA	0.360	0.280	NA
Chloride	NA	570	300 [280]	NA	6.2	3.0	NA
Dissolved Iron	NA	ND(0.100)	ND(0.100) [ND(0.100)]	NA	NA	NA	NA
Dissolved Organic Carbon	NA	6.60	6.80 [6.80]	NA	2.00	1.50	NA
Ethane	NA	ND(0.20)	ND(0.020) [ND(0.040)]	NA	ND(0.0050)	ND(0.0050)	NA
Ethene	NA	ND(0.20)	ND(0.020) [ND(0.040)]	NA	ND(0.0050)	ND(0.0050)	NA
Methane	NA	2.20	1.05 [1.13]	NA	0.400	1.19	NA
Nitrate Nitrogen	NA	ND(0.100)	ND(0.0500) [ND(0.0500)]	NA	NA	NA	NA
Nitrite Nitrogen	NA	ND(0.500)	ND(0.100) [ND(0.10) J]	NA	NA	NA	NA
Sulfate (turbidimetric)	NA	11.0	14.0 [12.0]	NA	2.00 N	2.00 N	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Location ID: / Sample ID: / Date Collected:	16C UBG16C 04/14/98	16C UBG16C 12/15/98	16C 16C 04/26/99	16C 16C 10/19/99	16C 16C 05/12/00	16C 16C 11/17/00	16C 16C 04/25/02	16C-R 16C-R 04/27/05
Volatile Organics								
Benzene	ND(0.010)	ND(0.010)	ND(0.010)	0.0020 J	ND(0.0050)	0.036	ND(0.0050)	0.0039 J
Chlorobenzene	ND(0.010)	0.0010 J	0.0020 J	0.0060 J	ND(0.0050)	0.021	0.0027 J	0.013
Trichloroethene	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0020 J
Vinyl Chloride	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0020)	ND(0.0020)
Total VOCs	0.051 J	0.0020 J	0.0040 J	0.010 J	ND(0.20)	0.057	0.0027 J	0.023 J
Semivolatile Organics								
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters								
Alkalinity (Total)	NA	NA	NA	NA	NA	NA	160	130
Alkalinity to pH 4.5	NA	104	NA	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	NA	6.90	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	NA	ND(0.200)	NA	NA	NA	NA	NA	NA
Chloride	NA	ND(1.0)	NA	NA	NA	NA	4.0	9.0
Dissolved Iron	NA	ND(0.100)	NA	NA	NA	NA	ND(0.0500)	0.0480 B
Dissolved Organic Carbon	NA	1.10	NA	NA	NA	NA	8.70	ND(1.0)
Ethane	NA	ND(0.0050)	NA	NA	NA	NA	ND(0.50)	ND(0.0040)
Ethene	NA	ND(0.0050)	NA	NA	NA	NA	ND(0.50)	ND(0.0030)
Methane	NA	0.570	NA	NA	NA	NA	12.0	ND(0.00200)
Nitrate Nitrogen	NA	NA	NA	NA	NA	NA	0.150	0.0690
Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	ND(0.0500)	0.0140 B
Sulfate (turbidimetric)	NA	ND(2.00)	NA	NA	NA	NA	3.60	3.20
Total Nitrate/Nitrite Nitrogen	NA	ND(0.100)	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:							
	Location ID:	16C-R	16C-R	16C-R	39B	39B	39B	39B
	Sample ID:	16C-R	16C-R	16C-R	PU39B233	PUEX39BG	UBG39B	UBG39BX (Bailer)
Parameter	Date Collected:	04/26/06	05/31/06	05/07/07	03/06/91	04/19/91	12/16/96	12/16/96
Volatile Organics								
Benzene		ND(0.0050)	NA	0.0027	0.0030 J	5.6	ND(0.77)	ND(0.50)
Chlorobenzene		0.0012 J	NA	0.015	0.0070	ND(1.5)	14	6.1
Trichloroethene		ND(0.0050)	NA	ND(0.0010)	0.0030 J	1.8	ND(0.38)	ND(0.25)
Vinyl Chloride		ND(0.0020)	NA	ND(0.0010)	ND(0.011)	ND(2.0)	ND(0.77)	ND(0.50)
Total VOCs		0.0012 J	NA	0.018	0.054 J	16	15	6.4 J
Semivolatile Organics								
2-Chlorophenol		NA	NA	NA	NA	0.042 J	0.010 J	NA
4-Chlorophenol		NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters								
Alkalinity (Total)		130	NA	130	NA	NA	NA	NA
Alkalinity to pH 4.5		NA	NA	NA	NA	NA	334	NA
Alkalinity to pH 8.3		NA	NA	NA	NA	NA	ND(1.00)	NA
Ammonia Nitrogen		NA	NA	NA	NA	NA	0.680	NA
Chloride		2.0	NA	1.1	NA	NA	4.2	NA
Dissolved Iron		ND(0.100)	NA	ND(0.100)	NA	20.1 *	NA	NA
Dissolved Organic Carbon		0.810 B	NA	ND(1.00)	NA	NA	10.0	NA
Ethane		NA	ND(0.020)	ND(0.020)	NA	NA	ND(0.0050)	NA
Ethene		NA	ND(0.020)	ND(0.020)	NA	NA	0.0070	NA
Methane		NA	0.0446	ND(0.00720)	NA	NA	0.640	NA
Nitrate Nitrogen		0.130	NA	0.120	NA	NA	NA	NA
Nitrite Nitrogen		ND(0.500)	NA	ND(0.0100)	NA	NA	NA	NA
Sulfate (turbidimetric)		6.30	NA	6.40	NA	NA	4.40	NA
Total Nitrate/Nitrite Nitrogen		NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:					
	39B / UBG39B / 04/23/97	39B / UBG39BX (Bailer) / 04/23/97	39B / UBG39B / 10/10/97	39B / UBG39B / 04/16/98	39B / UBG39B / 12/21/98	39B / 39B / 04/29/99
Volatile Organics						
Benzene	5.6	4.9	4.1 [4.6]	ND(5.0)	3.6	2.9 J
Chlorobenzene	16	13	30 [35]	52	48	63
Trichloroethene	ND(0.50)	ND(0.50)	1.3 [1.5]	0.74 J	0.94 J	1.0 J
Vinyl Chloride	ND(1.0)	ND(1.0)	ND(2.0) [ND(2.0)]	ND(5.0)	ND(3.3)	ND(3.3)
Total VOCs	24 J	20 J	37 J [43 J]	54 J	55 J	69 J
Semivolatile Organics						
2-Chlorophenol	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters						
Alkalinity (Total)	NA	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	250	NA	NA	NA	334 [157]	NA
Alkalinity to pH 8.3	ND(1.00)	NA	NA	NA	ND(1.00) [3.10]	NA
Ammonia Nitrogen	0.660	NA	NA	NA	0.990 [ND(0.200)]	NA
Chloride	69	NA	NA	NA	44 [2.3]	NA
Dissolved Iron	NA	NA	NA	NA	11.3 [ND(0.100)]	NA
Dissolved Organic Carbon	13.2	NA	NA	NA	10.7 [ND(1.00)]	NA
Ethane	0.010	NA	NA	NA	0.015 [ND(0.0050)]	NA
Ethene	0.021	NA	NA	NA	0.017 [ND(0.0050)]	NA
Methane	1.00	NA	NA	NA	1.10 [0.00580]	NA
Nitrate Nitrogen	NA	NA	NA	NA	NA	NA
Nitrite Nitrogen	NA	NA	NA	NA	NA	NA
Sulfate (turbidimetric)	ND(2.00)	NA	NA	NA	ND(2.00) [14.0]	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	ND(0.100) [ND(0.100)]	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID: / Sample ID: / Parameter / Date Collected:	39B 39B 10/20/99	39B 39B 05/12/00	39B 39B 11/17/00	39B-R 39B-R 04/13/04	39B-R 39B-R 04/07/05	39B-R 39B-R 10/21/05	39B-R 39B-R 04/20/06	39B-R 39B-R 05/07/07
Volatile Organics								
Benzene	1.3 DJ [1.5]	ND(5.0)	2.0	0.59	0.17 J	0.049	1.4 J	0.66
Chlorobenzene	36 D [31 D]	53	26	9.7	12	0.24	32	11
Trichloroethene	0.13 [0.13]	ND(5.0)	0.082	ND(0.50)	0.35 J	ND(0.010)	0.86 J	0.092 J
Vinyl Chloride	0.0090 J [0.010 J]	ND(10)	0.036	ND(0.50)	ND(0.50)	ND(0.010)	ND(2.0)	ND(0.40)
Total VOCs	37 J [34]	53	29	10	13 J	0.29	35 J	12
Semivolatile Organics								
2-Chlorophenol	NA	NA	NA	ND(0.010)	0.0096 J	NA	0.0094 J	ND(0.050)
4-Chlorophenol	NA	NA	NA	ND(0.010)	0.60	NA	0.71	ND(0.050) J
Natural Attenuation Parameters								
Alkalinity (Total)	NA	NA	NA	490	500	NA	280	310
Alkalinity to pH 4.5	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	230	250	NA	400	98
Dissolved Iron	NA	NA	NA	ND(0.0500)	ND(0.0500)	NA	0.0250 B	0.0121 B
Dissolved Organic Carbon	NA	NA	NA	12.0	2.50	NA	8.00	6.50
Ethane	NA	NA	NA	ND(0.0040)	ND(0.0040)	NA	ND(0.020)	ND(0.020)
Ethene	NA	NA	NA	0.0033	ND(0.0030)	NA	ND(0.020)	ND(0.020)
Methane	NA	NA	NA	0.230	0.0300	NA	0.280	0.162
Nitrate Nitrogen	NA	NA	NA	1.30	1.90	NA	0.340	0.310
Nitrite Nitrogen	NA	NA	NA	ND(0.0500)	ND(0.0500)	NA	ND(0.500)	ND(0.0100)
Sulfate (turbidimetric)	NA	NA	NA	9.90	9.20	NA	13.0	7.30
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Location ID: / Sample ID: / Date Collected:	39D PUEX39DG 04/19/91	39D UBG39D 12/16/96	39D UBG39D 04/23/97	39D UBG39D 10/10/97	39D UBG39D 04/16/98	39D UBG39D 12/21/98	39D 39D 04/29/99
Volatile Organics							
Benzene	0.11 J	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chlorobenzene	5.5	0.026	0.020	0.027	0.025	0.030	0.030
Trichloroethene	0.14 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.010)
Vinyl Chloride	ND(0.33)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	6.1 J	0.026	0.020	0.027	0.027 J	0.033 J	0.032 J
Semivolatile Organics							
2-Chlorophenol	0.011 J	ND(0.015)	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)	NA	NA	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	NA	172	144	NA	NA	156	NA
Alkalinity to pH 8.3	NA	ND(1.00)	ND(1.00)	NA	NA	3.20	NA
Ammonia Nitrogen	NA	0.310	0.0600	NA	NA	ND(0.200)	NA
Chloride	NA	2.5	4.0	NA	NA	2.6	NA
Dissolved Iron	ND(0.0420) *	NA	NA	NA	NA	ND(0.100)	NA
Dissolved Organic Carbon	NA	1.00	1.50	NA	NA	ND(1.00)	NA
Ethane	NA	ND(0.0050)	ND(0.0050)	NA	NA	ND(0.0050)	NA
Ethene	NA	ND(0.0050)	ND(0.0050)	NA	NA	ND(0.0050)	NA
Methane	NA	ND(0.00500)	0.00700	NA	NA	0.00610	NA
Nitrate Nitrogen	NA	NA	NA	NA	NA	NA	NA
Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA
Sulfate (turbidimetric)	NA	13.2	12.2	NA	NA	13.2	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	ND(0.100)	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:							
	39D / 39D / 10/20/99	39D / 39D / 05/12/00	39D / 39D / 11/16/00	39D / 39D / 04/23/02	39D / 39D / 04/14/04	39D / 39D / 04/07/05	39D-R / 39D-R / 04/20/06	39D-R / 39D-R / 05/14/07
Volatile Organics								
Benzene	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.050	ND(0.0010)
Chlorobenzene	0.028 B	0.025	0.027	0.0063	0.019	0.019	0.64	0.014
Trichloroethene	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.12	ND(0.0010)
Vinyl Chloride	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0010)
Total VOCs	0.032 J	0.025	0.027	0.0063	0.019	0.023 J	0.83 J	0.014 J
Semivolatile Organics								
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters								
Alkalinity (Total)	NA	NA	NA	160	140	140	140	130
Alkalinity to pH 4.5	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	4.0	4.3	4.2	8.4	5.5
Dissolved Iron	NA	NA	NA	0.130	0.0540	0.0360 B	ND(0.100)	ND(0.100) J
Dissolved Organic Carbon	NA	NA	NA	2.10	2.30	ND(1.00)	3.40	ND(1.00)
Ethane	NA	NA	NA	ND(0.020)	ND(0.0040)	ND(0.0040)	ND(0.020)	ND(0.020)
Ethene	NA	NA	NA	ND(0.020)	ND(0.0030)	ND(0.0030)	ND(0.020)	ND(0.020)
Methane	NA	NA	NA	0.0230	ND(0.00200)	ND(0.00200)	ND(0.00720)	ND(0.00720)
Nitrate Nitrogen	NA	NA	NA	0.0370 B	ND(0.0500)	ND(0.0500)	ND(0.100)	ND(0.0500)
Nitrite Nitrogen	NA	NA	NA	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.500)	ND(0.0100)
Sulfate (turbidimetric)	NA	NA	NA	18.0	19.0	19.0	56.0	22.0
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Location ID: / Sample ID: / Date Collected:	39E PU39EG 04/19/91	39E PUG39E 02/26/92	39E UBG39E 12/16/96	39E UBG39E 04/23/97	39E UBG39E 10/10/97	39E UBG39E 04/16/98	39E UBG39E 12/21/98
Volatile Organics							
Benzene	0.011	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chlorobenzene	0.24	0.0010 J	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)
Vinyl Chloride	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	0.29 J	0.027 J	ND(3.7)	0.085 J	0.0010 J	0.0040 J	0.0020 J
Semivolatile Organics							
2-Chlorophenol	ND(0.012)	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)	NA	NA	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	NA	NA	NA	116	NA	NA	119
Alkalinity to pH 8.3	NA	NA	NA	ND(1.00)	NA	NA	1.20
Ammonia Nitrogen	NA	NA	NA	NA	NA	NA	ND(0.200)
Chloride	NA	NA	NA	3.1	NA	NA	4.3
Dissolved Iron	ND(0.0420) *	NA	NA	NA	NA	NA	ND(0.100)
Dissolved Organic Carbon	NA	NA	NA	2.00	NA	NA	ND(1.00)
Ethane	NA	NA	NA	NA	NA	NA	ND(0.0050)
Ethene	NA	NA	NA	NA	NA	NA	ND(0.0050)
Methane	NA	NA	NA	NA	NA	NA	0.0270
Nitrate Nitrogen	NA	NA	NA	NA	NA	NA	NA
Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA
Sulfate (turbidimetric)	NA	NA	NA	NA	NA	NA	ND(2.00)
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	0.370

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID: / Sample ID: / Parameter / Date Collected:	39E 39E 04/29/99	39E 39E 10/20/99	39E 39E 05/12/00	39E 39E 11/17/00	39E MW-39-E 04/25/02	39E 39E 04/21/04	39E 39E 04/13/05
Volatile Organics							
Benzene	ND(0.010)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Chlorobenzene	0.0010 J	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Trichloroethene	ND(0.010)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Vinyl Chloride	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0020)	ND(0.0020) [ND(0.0020)]	ND(0.0020)
Total VOCs	0.0050 J	0.0050 J	ND(0.20)	ND(0.20)	ND(0.20)	0.0017 J [ND(0.20)]	ND(0.20)
Semivolatile Organics							
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)	NA	NA	NA	NA	24.0	94.0 [97.0]	43.0
Alkalinity to pH 4.5	NA	NA	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	9.2	10 [10]	62
Dissolved Iron	NA	NA	NA	NA	ND(0.0500)	ND(0.0500) [ND(0.0500)]	0.0900
Dissolved Organic Carbon	NA	NA	NA	NA	5.20	2.30 [2.80]	ND(1.4)
Ethane	NA	NA	NA	NA	ND(0.0010)	ND(0.0040) [ND(0.0040)]	ND(0.0040)
Ethene	NA	NA	NA	NA	ND(0.0010)	ND(0.0030) [ND(0.0030)]	ND(0.0030)
Methane	NA	NA	NA	NA	ND(0.00100)	0.370 [0.310]	0.140
Nitrate Nitrogen	NA	NA	NA	NA	1.00	0.320 [0.290]	0.840
Nitrite Nitrogen	NA	NA	NA	NA	ND(0.0500)	ND(0.0500) [ND(0.0500)]	0.00770 B
Sulfate (turbidimetric)	NA	NA	NA	NA	5.70	3.60 [3.00]	4.90
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:							
	Location ID:	39E	39E	43A	43A	43A	43A	43A
	Sample ID:	39E	39E	PUEXG43A	UBG43A	UBG43A	43A	43A
Parameter	Date Collected:	04/20/06	05/14/07	02/27/91	01/13/97	05/06/97	04/26/02	04/14/04
Volatile Organics								
Benzene		0.0015 J	0.00031 J	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.0050)	ND(0.0050)
Chlorobenzene		0.068	0.00051 J	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.0050)	ND(0.0050)
Trichloroethene		ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride		ND(0.0020)	ND(0.0010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0020)	ND(0.0020)
Total VOCs		0.070 J	0.0020 J	0.024	ND(3.7)	0.086 J	ND(0.20)	ND(0.20)
Semivolatile Organics								
2-Chlorophenol		NA	NA	ND(0.010)	NA	NA	NA	NA
4-Chlorophenol		NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters								
Alkalinity (Total)		81.0	21.0	NA	NA	NA	330	370
Alkalinity to pH 4.5		NA	NA	NA	NA	368	NA	NA
Alkalinity to pH 8.3		NA	NA	NA	NA	ND(1.00)	NA	NA
Ammonia Nitrogen		NA	NA	NA	NA	ND(0.0500)	NA	NA
Chloride		7.8	170	NA	NA	ND(1.0)	29	39
Dissolved Iron		0.180	0.0364 J	0.698 E	NA	NA	ND(0.0500)	ND(0.0500)
Dissolved Organic Carbon		1.20	2.00	NA	NA	2.30	4.30	5.70
Ethane		ND(0.020)	ND(0.020)	NA	NA	ND(0.0050)	ND(0.050)	ND(0.0040)
Ethene		ND(0.020)	ND(0.020)	NA	NA	ND(0.0050)	ND(0.050)	ND(0.0030)
Methane		0.940	ND(0.00720)	NA	NA	0.240	0.730	0.110
Nitrate Nitrogen		ND(0.100)	0.670	NA	NA	NA	0.0200 B	0.0280 B
Nitrite Nitrogen		ND(0.500)	ND(0.0100)	NA	NA	NA	ND(0.0500)	ND(0.0500)
Sulfate (turbidimetric)		ND(5.00)	4.80	NA	NA	55.3	42.0	48.0
Total Nitrate/Nitrite Nitrogen		NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:						
	43A / 43A / 04/12/05	43A / 43A / 04/19/06	43A / 43A / 05/09/07	43B / PUEXG43B / 02/27/91	43B / UBG43B / 01/13/97	43B / UBG43B / 05/06/97	43B / 43B / 04/26/02
Volatile Organics							
Benzene	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.0050)
Chlorobenzene	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.0050)
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0050)	0.0020 J	ND(0.0050)
Vinyl Chloride	ND(0.0020)	ND(0.0020)	ND(0.0010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0020)
Total VOCs	0.077 J	ND(0.20)	0.19 J	0.043	ND(3.7)	0.0090 J	ND(0.20)
Semivolatile Organics							
2-Chlorophenol	NA	NA	NA	ND(0.010)	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)	350	200	490	NA	NA	NA	570
Alkalinity to pH 4.5	NA	NA	NA	NA	496	486	NA
Alkalinity to pH 8.3	NA	NA	NA	NA	ND(1.00)	ND(1.00)	NA
Ammonia Nitrogen	NA	NA	NA	NA	0.880	0.970	NA
Chloride	40	38	25	NA	ND(1.0)	1.3	49
Dissolved Iron	ND(0.0500)	ND(0.100)	ND(0.100) J	0.493 E	NA	NA	ND(0.0500)
Dissolved Organic Carbon	ND(1.00)	1.60	1.80	NA	2.90	3.60	9.00
Ethane	ND(0.0040)	ND(0.20)	ND(0.020)	NA	ND(0.0050)	ND(0.0050)	ND(0.10)
Ethene	ND(0.0030)	ND(0.20)	ND(0.020)	NA	ND(0.0050)	ND(0.0050)	ND(0.10)
Methane	0.0830	1.60	0.0460	NA	0.800	2.80	1.30
Nitrate Nitrogen	ND(0.0500)	ND(0.100)	ND(0.0500)	NA	NA	NA	0.0170 B
Nitrite Nitrogen	ND(0.0500)	ND(0.500)	ND(0.0100)	NA	NA	NA	ND(0.0500)
Sulfate (turbidimetric)	43.0	ND(5.00)	93.0	NA	ND(2.00)	ND(2.00)	1.30
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID: / Sample ID: / Parameter / Date Collected:	43B 43B 04/21/04	43B 43B 04/07/05	43B 43B 04/19/06	43B 43B 05/09/07	89A PUEXG89A 02/21/91	89A UBG89A 12/05/96	89A UBG89AX (Bailer) 12/05/96
Volatile Organics							
Benzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)	11	16	13
Chlorobenzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)	48	49	42
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(1.2)	ND(1.7)	ND(1.2)
Vinyl Chloride	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0010)	2.1 J	0.48 J	0.43 J
Total VOCs	ND(0.20)	ND(0.20)	ND(0.20)	0.00050 J	63 J	65 J	55 J
Semivolatile Organics							
2-Chlorophenol	NA	NA	NA	NA	NA	0.0030 J	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)	590	620	590	590	NA	NA	NA
Alkalinity to pH 4.5	NA	NA	NA	NA	NA	383	NA
Alkalinity to pH 8.3	NA	NA	NA	NA	NA	ND(1.00)	NA
Ammonia Nitrogen	NA	NA	NA	NA	NA	ND(0.0500)	NA
Chloride	57	58	50	59	NA	860	NA
Dissolved Iron	ND(0.0500)	ND(0.0500)	ND(0.100)	ND(0.100) J	NA	NA	NA
Dissolved Organic Carbon	11.0	7.60	2.70	2.50	NA	10.0	NA
Ethane	ND(0.020)	ND(0.0040)	ND(0.020)	ND(0.20)	NA	ND(0.010)	NA
Ethene	ND(0.015)	ND(0.0030)	ND(0.020)	ND(0.20)	NA	0.50	NA
Methane	0.770	0.880	0.980	0.802	NA	0.800	NA
Nitrate Nitrogen	ND(0.0500)	0.0800	ND(0.100)	ND(0.0500)	NA	NA	NA
Nitrite Nitrogen	ND(0.0500)	ND(0.0500)	ND(0.500)	ND(0.0100)	NA	NA	NA
Sulfate (turbidimetric)	ND(2.00)	ND(2.00)	ND(5.00)	ND(2.00)	NA	ND(2.00)	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:						
	89A / UBG89A / 04/24/97	89A / UBG89AX (Bailer) / 04/24/97	89A / UBG89A / 10/07/97	89A / UBG89A / 04/15/98	89A / UBG89A / 12/17/98	89A / 89A / 04/28/99	89A / 89A / 10/21/99
Volatile Organics							
Benzene	25	19	18	14	10	8.8 [8.8]	2.1 D
Chlorobenzene	53	42	ND(3.3)	49	34	33 [33]	5.6 D
Trichloroethene	ND(1.7)	ND(1.3)	ND(1.7)	ND(1.2)	ND(2.5)	ND(2.5) [ND(2.5)]	ND(0.10)
Vinyl Chloride	ND(3.3)	ND(2.5)	0.80 J	ND(2.5)	ND(2.5)	ND(2.5) [ND(2.5)]	ND(0.10)
Total VOCs	100 J	74 J	73 J	63	45	42 [42]	7.7 J
Semivolatile Organics							
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	0.74	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)	NA	NA	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	376	NA	NA	NA	368	NA	NA
Alkalinity to pH 8.3	ND(1.00)	NA	NA	NA	ND(1.00)	NA	NA
Ammonia Nitrogen	0.0900	NA	NA	NA	ND(0.200)	NA	NA
Chloride	1100	NA	NA	NA	580	NA	NA
Dissolved Iron	NA	NA	NA	NA	0.650	NA	NA
Dissolved Organic Carbon	11.5	NA	NA	NA	8.90	NA	NA
Ethane	0.13	NA	NA	NA	0.017	NA	NA
Ethene	1.3	NA	NA	NA	1.4	NA	NA
Methane	2.40	NA	NA	NA	2.30	NA	NA
Nitrate Nitrogen	NA	NA	NA	NA	NA	NA	NA
Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA
Sulfate (turbidimetric)	ND(2.00)	NA	NA	NA	ND(2.00)	NA	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	ND(0.100)	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID: / Sample ID: / Parameter / Date Collected:	89A 89A 05/15/00	89A 89A 11/22/00	89A 89A 05/12/04	89A 89A 05/02/05	89A 89A 05/02/06	89A 89A 05/09/07	89B PUEXG89B 02/21/91	89B UBG89B 12/05/96
Volatile Organics								
Benzene	7.3	7.0	5.9	5.5	5.6	0.33	3.0 D	1.0
Chlorobenzene	21	24	22	16	14	2.5	15 D	4.3
Trichloroethene	ND(1.0)	ND(0.050)	ND(0.050)	ND(1.0)	ND(1.0)	ND(0.080)	ND(0.0050)	ND(0.14)
Vinyl Chloride	ND(1.0)	ND(0.050)	ND(0.050)	ND(1.0)	ND(1.0)	ND(0.080)	ND(0.010)	ND(0.29)
Total VOCs	28	31	28	22	20	3.0 J	18	5.3
Semivolatile Organics								
2-Chlorophenol	NA	NA	ND(0.010)	NA	0.0068 J	0.0072 J	NA	0.0080 J
4-Chlorophenol	NA	NA	ND(0.010)	NA	0.010	ND(0.010) J	NA	NA
Natural Attenuation Parameters								
Alkalinity (Total)	NA	NA	350	340	340	360	NA	NA
Alkalinity to pH 4.5	NA	NA	NA	NA	NA	NA	NA	173
Alkalinity to pH 8.3	NA	NA	NA	NA	NA	NA	NA	ND(1.00)
Ammonia Nitrogen	NA	NA	NA	NA	NA	NA	NA	0.270
Chloride	NA	NA	390	320	340	440	NA	31
Dissolved Iron	NA	NA	ND(0.0500)	ND(0.0500)	0.0290 B	ND(0.100) J	NA	NA
Dissolved Organic Carbon	NA	NA	8.60	11.0	5.70	5.60	NA	4.00
Ethane	NA	NA	0.044	0.023	ND(0.20)	ND(0.020)	NA	ND(0.010)
Ethene	NA	NA	0.057	0.0054	ND(0.20)	ND(0.020)	NA	ND(0.0050)
Methane	NA	NA	0.850 E	1.40	5.80	0.738	NA	0.230
Nitrate Nitrogen	NA	NA	0.0100 B	0.0170 B	ND(0.100)	ND(0.0500)	NA	NA
Nitrite Nitrogen	NA	NA	ND(0.0500)	ND(0.0500)	ND(0.500)	ND(0.100)	NA	NA
Sulfate (turbidimetric)	NA	NA	ND(2.00)	ND(2.00)	ND(5.00)	ND(2.00)	NA	12.2
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Location ID: / Sample ID: / Date Collected:	89B UBG89BX (Bailer) 12/05/96	89B UBG89B 04/24/97	89B UBG89BX (Bailer) 04/24/97	89B UBG89B 10/07/97	89B UBG89B 04/17/98	89B UBG89B 12/17/98
Volatile Organics						
Benzene	1.1	0.31	ND(0.14)	5.8	1.3	0.040 J
Chlorobenzene	4.5	1.6	ND(0.92)	14	5.6	0.63
Trichloroethene	ND(0.16)	ND(0.042)	ND(0.042)	ND(0.45)	ND(0.25)	ND(0.062)
Vinyl Chloride	ND(0.31)	ND(0.083)	ND(0.083)	ND(0.91)	ND(0.50)	ND(0.062)
Total VOCs	5.6	1.9	ND(31)	20	6.9	0.68 J
Semivolatile Organics						
2-Chlorophenol	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters						
Alkalinity (Total)	NA	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	NA	150	NA	NA	NA	176
Alkalinity to pH 8.3	NA	ND(1.00)	NA	NA	NA	ND(1.00)
Ammonia Nitrogen	NA	0.180	NA	NA	NA	ND(0.200)
Chloride	NA	11	NA	NA	NA	29
Dissolved Iron	NA	NA	NA	NA	NA	7.03
Dissolved Organic Carbon	NA	4.10	NA	NA	NA	12.0
Ethane	NA	ND(0.0050)	NA	NA	NA	ND(0.0050)
Ethene	NA	ND(0.0050)	NA	NA	NA	ND(0.0050)
Methane	NA	0.140	NA	NA	NA	1.40
Nitrate Nitrogen	NA	NA	NA	NA	NA	NA
Nitrite Nitrogen	NA	NA	NA	NA	NA	NA
Sulfate (turbidimetric)	NA	18.2	NA	NA	NA	ND(2.00)
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	ND(0.100)

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID: / Sample ID: / Parameter / Date Collected:	89B / 89B / 04/28/99	89B / 89B / 10/21/99	89B / 89B / 05/15/00	89B / 89B / 11/22/00	89B / 89B / 04/30/04	89B / 89B / 10/14/04
Volatile Organics						
Benzene	0.19	0.0030 J	ND(0.0050)	0.92	0.16 [0.16]	0.0014 J [0.079]
Chlorobenzene	1.2	0.17	0.027	4.4	0.91 [0.89]	0.010 J [0.56 J]
Trichloroethene	ND(0.077)	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.050)]
Vinyl Chloride	ND(0.077)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0020) [ND(0.0020)]	ND(0.0020) [ND(0.050)]
Total VOCs	1.4	0.18 J	0.027	5.3	1.1 [1.1]	0.011 J [0.64 J]
Semivolatile Organics						
2-Chlorophenol	NA	NA	NA	NA	ND(0.010) [ND(0.010)]	ND(0.010) [ND(0.010)]
4-Chlorophenol	NA	NA	NA	NA	NA	ND(0.010) [ND(0.010)]
Natural Attenuation Parameters						
Alkalinity (Total)	NA	NA	NA	NA	220 [210]	NA
Alkalinity to pH 4.5	NA	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	91 [98]	NA
Dissolved Iron	NA	NA	NA	NA	2.10 [3.20]	NA
Dissolved Organic Carbon	NA	NA	NA	NA	8.70 [9.00]	NA
Ethane	NA	NA	NA	NA	ND(0.040) [ND(0.040)]	NA
Ethene	NA	NA	NA	NA	ND(0.030) [ND(0.030)]	NA
Methane	NA	NA	NA	NA	2.40 [2.30]	NA
Nitrate Nitrogen	NA	NA	NA	NA	0.0280 B [0.0610]	NA
Nitrite Nitrogen	NA	NA	NA	NA	ND(0.0500) [ND(0.0500)]	NA
Sulfate (turbidimetric)	NA	NA	NA	NA	0.180 B [0.170 B]	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:	89B / 89B / 05/03/05	89B / 89B / 11/09/05	89B / 89B / 05/02/06	89B / 89B / 05/09/07	89D / PUEXG89D / 02/21/91	89D / UBG89D / 12/05/96
Volatile Organics							
Benzene		0.16 [0.17]	0.0022 J [0.0022 J]	0.017	0.017	0.0010 J	ND(0.010)
Chlorobenzene		1.4 [1.3]	0.23 [0.20]	0.15	0.15	0.0060	ND(0.010)
Trichloroethene		ND(0.10) [ND(0.10)]	ND(0.0050) [ND(0.0050)]	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride		ND(0.10) [ND(0.10)]	ND(0.0020) [ND(0.0020)]	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Total VOCs		1.6 [1.5]	0.23 J [0.20 J]	0.17 J	0.17	0.011 J	ND(3.7)
Semivolatile Organics							
2-Chlorophenol		0.0049 J [0.0068 J]	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA	ND(0.015)
4-Chlorophenol		NA	NA	ND(0.010)	ND(0.010) J	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)		270 [260]	NA	200	170	NA	NA
Alkalinity to pH 4.5		NA	NA	NA	NA	NA	NA
Alkalinity to pH 8.3		NA	NA	NA	NA	NA	NA
Ammonia Nitrogen		NA	NA	NA	NA	NA	NA
Chloride		130 [110]	NA	110	140	NA	NA
Dissolved Iron		5.60 [5.80]	NA	1.90	ND(0.100) J	NA	NA
Dissolved Organic Carbon		6.90 [5.20]	NA	4.60	2.60	NA	NA
Ethane		ND(0.0040) [ND(0.0040)]	NA	ND(0.20)	ND(0.020)	NA	NA
Ethene		ND(0.0030) [ND(0.0030)]	NA	ND(0.20)	ND(0.020)	NA	NA
Methane		2.80 [2.80]	NA	2.70	0.188	NA	NA
Nitrate Nitrogen		0.0150 B [0.0510]	NA	ND(0.100)	ND(0.0500)	NA	NA
Nitrite Nitrogen		0.00790 B [0.0130 B]	NA	ND(0.500)	ND(0.0100)	NA	NA
Sulfate (turbidimetric)		ND(2.00) [ND(2.00)]	NA	ND(5.00)	7.50	NA	NA
Total Nitrate/Nitrite Nitrogen		NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID: / Sample ID: / Parameter / Date Collected:	89D UBG89D 04/24/97	89D UBG89D 10/07/97	89D UBG89D 04/17/98	89D UBG89D 12/18/98	89D 89D 04/28/99	89D 89D 10/21/99	89D 89D 05/15/00
Volatile Organics							
Benzene	ND(0.010)	ND(0.010)	0.0020 J	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0050)
Chlorobenzene	0.0020 J	0.0030 J	0.0080 J	ND(0.010)	ND(0.010)	0.0040 J	ND(0.0050)
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0050)
Vinyl Chloride	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	0.0020 J	0.0050 J	0.090 J	0.0020 J	0.0010 J	0.0090 J	ND(0.20)
Semivolatile Organics							
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)	NA	NA	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	107	NA	NA	141	NA	NA	NA
Alkalinity to pH 8.3	ND(1.00)	NA	NA	ND(1.00)	NA	NA	NA
Ammonia Nitrogen	0.210	NA	NA	ND(0.200)	NA	NA	NA
Chloride	ND(1.0)	NA	NA	1.4	NA	NA	NA
Dissolved Iron	NA	NA	NA	0.870	NA	NA	NA
Dissolved Organic Carbon	2.90	NA	NA	ND(1.00)	NA	NA	NA
Ethane	ND(0.0050)	NA	NA	ND(0.0050)	NA	NA	NA
Ethene	ND(0.0050)	NA	NA	ND(0.0050)	NA	NA	NA
Methane	3.30	NA	NA	0.310	NA	NA	NA
Nitrate Nitrogen	NA	NA	NA	NA	NA	NA	NA
Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA
Sulfate (turbidimetric)	ND(2.00)	NA	NA	ND(4.00)	NA	NA	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	ND(0.100)	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID: / Sample ID: / Parameter / Date Collected:	89D 89D 11/22/00	89D-R 89D-R 04/26/05	89D-R 89D-R 05/02/05	89D-R 89D-R 05/02/06	89D-R 89D-R 05/09/07
Volatile Organics					
Benzene	ND(0.0050)	0.15	NA	12	8.3
Chlorobenzene	ND(0.0050)	0.45	NA	34	31
Trichloroethene	ND(0.0050)	ND(0.010)	NA	ND(0.10)	ND(0.80)
Vinyl Chloride	ND(0.010)	ND(0.010)	NA	0.17	0.98
Total VOCs	ND(0.20)	0.62	NA	46	43 J
Semivolatile Organics					
2-Chlorophenol	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA
Natural Attenuation Parameters					
Alkalinity (Total)	NA	NA	330	330	330
Alkalinity to pH 4.5	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	NA	NA	NA	NA	NA
Ammonia Nitrogen	NA	NA	NA	NA	NA
Chloride	NA	NA	540	620	630
Dissolved Iron	NA	NA	ND(0.0500)	ND(0.100)	ND(0.100) J
Dissolved Organic Carbon	NA	NA	7.60	6.60	9.20
Ethane	NA	ND(0.0040)	NA	ND(0.020)	ND(0.020)
Ethene	NA	0.0032	NA	0.64	0.80
Methane	NA	0.00890	NA	1.30	1.06
Nitrate Nitrogen	NA	NA	0.00480 B	ND(0.100)	ND(0.0500)
Nitrite Nitrogen	NA	NA	ND(0.0500)	ND(0.500)	ND(0.100)
Sulfate (turbidimetric)	NA	NA	18.0	ND(1.00)	2.80
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:						
	Location ID:	90A	90A	90A	90A	90A	90A
	Sample ID:	PUEXG90A	UBG90A	UBG90A	UBG90A	UBG90A	UBG90A
Parameter	Date Collected:	02/20/91	12/10/96	04/29/97	10/07/97	04/14/98	12/22/98
Volatile Organics							
Benzene		ND(0.0050)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Chlorobenzene		ND(0.0050)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	0.0040 J
Trichloroethene		ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.010)
Vinyl Chloride		ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Total VOCs		ND(0.12)	0.0040 J [0.0040 J]	ND(3.7)	ND(3.7)	0.0020 J [0.0020 J]	0.011 J
Semivolatile Organics							
2-Chlorophenol		NA	NA	NA	NA	NA	NA
4-Chlorophenol		NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)		NA	NA	NA	NA	NA	NA
Alkalinity to pH 4.5		NA	135	147	NA	NA	135
Alkalinity to pH 8.3		NA	ND(1.00)	ND(1.00)	NA	NA	ND(1.00)
Ammonia Nitrogen		NA	0.170	0.150	NA	NA	ND(0.200)
Chloride		NA	4.3	4.9	NA	NA	3.3
Dissolved Iron		NA	NA	NA	NA	NA	2.53
Dissolved Organic Carbon		NA	1.00	1.70	NA	NA	ND(1.00)
Ethane		NA	ND(0.0050)	ND(0.0050)	NA	NA	ND(0.0050)
Ethene		NA	ND(0.0050)	ND(0.0050)	NA	NA	ND(0.0050)
Methane		NA	0.0280	0.0750	NA	NA	0.0200
Nitrate Nitrogen		NA	NA	NA	NA	NA	NA
Nitrite Nitrogen		NA	NA	NA	NA	NA	NA
Sulfate (turbidimetric)		NA	15.1	19.7	NA	NA	10.5
Total Nitrate/Nitrite Nitrogen		NA	NA	NA	NA	NA	ND(0.100)

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:							
	90A / 90A / 04/28/99	90A / 90A / 10/22/99	90A / 90A / 05/10/00	90A / 90A / 11/15/00	90A / 90A / 04/26/04	90A / 90A / 04/14/05	90A / 90A / 04/25/06	90A / 90A / 05/08/07
Volatile Organics								
Benzene	ND(0.010)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Chlorobenzene	ND(0.010)	0.012	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0011
Trichloroethene	ND(0.010)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Vinyl Chloride	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0010)
Total VOCs	0.0020 J	0.028 J	ND(0.20)	ND(0.20)	ND(0.20)	0.00072 J	0.0056	0.0011
Semivolatile Organics								
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters								
Alkalinity (Total)	NA	NA	NA	NA	140	160	150	160
Alkalinity to pH 4.5	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	4.6	7.4	10	9.3
Dissolved Iron	NA	NA	NA	NA	ND(0.0500)	ND(0.0500)	ND(0.100)	0.0670 B
Dissolved Organic Carbon	NA	NA	NA	NA	2.30	ND(1.0)	1.00	ND(1.00)
Ethane	NA	NA	NA	NA	ND(0.0040)	ND(0.0040)	ND(0.020)	ND(0.020)
Ethene	NA	NA	NA	NA	ND(0.0030)	ND(0.0030)	ND(0.020)	ND(0.020)
Methane	NA	NA	NA	NA	0.0240	0.0190	0.150	0.108
Nitrate Nitrogen	NA	NA	NA	NA	0.0130 B	0.0540	ND(0.100)	ND(0.0500)
Nitrite Nitrogen	NA	NA	NA	NA	ND(0.0500)	ND(0.0500)	ND(0.500)	ND(0.0100)
Sulfate (turbidimetric)	NA	NA	NA	NA	13.0	20.0	18.0	21.0
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:						
	90B / PUEXG90B / 02/20/91	90B / UBG90B / 12/10/96	90B / UBG90B / 04/29/97	90B / UBG90B / 10/06/97	90B / UBG90B / 04/14/98	90B / UBG90B / 12/22/98	90B / 90B / 04/28/99
Volatile Organics							
Benzene	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chlorobenzene	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.0060 J	ND(0.010)
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.010)
Vinyl Chloride	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	ND(0.12)	0.0040 J	ND(3.7)	ND(3.7)	0.0030 J	0.014 J	0.0010 J
Semivolatile Organics							
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)	NA	NA	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	NA	117	129	NA	NA	113	NA
Alkalinity to pH 8.3	NA	ND(1.00)	ND(1.00)	NA	NA	ND(1.00)	NA
Ammonia Nitrogen	NA	0.160	0.180	NA	NA	ND(0.200)	NA
Chloride	NA	4.2	3.7	NA	NA	4.0	NA
Dissolved Iron	NA	NA	NA	NA	NA	4.95	NA
Dissolved Organic Carbon	NA	4.00	3.70	NA	NA	6.60	NA
Ethane	NA	ND(0.0050)	ND(0.0050)	NA	NA	ND(0.0050)	NA
Ethene	NA	ND(0.0050)	ND(0.0050)	NA	NA	ND(0.0050)	NA
Methane	NA	0.0330	0.0920	NA	NA	0.0570	NA
Nitrate Nitrogen	NA	NA	NA	NA	NA	NA	NA
Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA
Sulfate (turbidimetric)	NA	18.9	9.90	NA	NA	10.1	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	ND(0.100)	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID: / Sample ID: / Parameter / Date Collected:	90B 90B 10/22/99	90B 90B 05/10/00	90B 90B 11/15/00	90B 90B 04/23/04	90B 90B 04/29/04	90B 90B 10/07/04
Volatile Organics						
Benzene	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	NA	ND(0.0050)	ND(0.0050)
Chlorobenzene	0.024	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	NA	ND(0.0050)	ND(0.0050)
Trichloroethene	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	NA	ND(0.0050)	ND(0.0050)
Vinyl Chloride	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010) [ND(0.010)]	NA	ND(0.0020)	ND(0.0020)
Total VOCs	0.029 J	ND(0.20) [ND(0.20)]	ND(0.20) [ND(0.20)]	NA	ND(0.20)	ND(0.20)
Semivolatile Organics						
2-Chlorophenol	NA	NA	NA	ND(0.010)	NA	ND(0.010)
4-Chlorophenol	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters						
Alkalinity (Total)	NA	NA	NA	130	NA	NA
Alkalinity to pH 4.5	NA	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	5.0	NA	NA
Dissolved Iron	NA	NA	NA	2.90	NA	NA
Dissolved Organic Carbon	NA	NA	NA	6.90	NA	NA
Ethane	NA	NA	NA	ND(0.0040)	NA	NA
Ethene	NA	NA	NA	ND(0.0030)	NA	NA
Methane	NA	NA	NA	0.0160	NA	NA
Nitrate Nitrogen	NA	NA	NA	0.0400 B	NA	NA
Nitrite Nitrogen	NA	NA	NA	ND(0.0500)	NA	NA
Sulfate (turbidimetric)	NA	NA	NA	11.0	NA	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:						
	90B / 90B / 04/14/05	90B / 90B / 11/04/05	90B / 90B / 04/25/06	90B / 90B / 05/08/07	95A / UBG95A / 12/11/96	95A / UBG95A / 04/25/97	95A / UBG95AX (Bailer) / 04/25/97
Volatile Organics							
Benzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.00027 J	ND(0.010)	ND(0.010)	ND(0.010)
Chlorobenzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0017	ND(0.010)	ND(0.010)	ND(0.010)
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0010)	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	ND(0.20)	ND(0.20)	0.0028 J	0.0020 J	ND(3.7)	0.22 J	ND(3.7)
Semivolatile Organics							
2-Chlorophenol	ND(0.010)	ND(0.010)	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)	140	NA	130	130	NA	NA	NA
Alkalinity to pH 4.5	NA	NA	NA	NA	115	107	NA
Alkalinity to pH 8.3	NA	NA	NA	NA	ND(1.00)	ND(1.00)	NA
Ammonia Nitrogen	NA	NA	NA	NA	0.120	0.150	NA
Chloride	4.1	NA	5.8	8.0	ND(2.0)	ND(2.0)	NA
Dissolved Iron	2.60	NA	5.10	3.62	NA	NA	NA
Dissolved Organic Carbon	6.40	NA	6.10	4.80	1.00	1.40	NA
Ethane	ND(0.0040)	NA	ND(0.020)	ND(0.020)	ND(0.0050)	ND(0.0050)	NA
Ethene	ND(0.0030)	NA	ND(0.020)	ND(0.020)	ND(0.0050)	ND(0.0050)	NA
Methane	0.0340	NA	0.0900	0.0830	0.200	0.440	NA
Nitrate Nitrogen	0.140	NA	ND(0.100)	ND(0.0500)	NA	NA	NA
Nitrite Nitrogen	0.00260 B	NA	ND(0.500)	ND(0.0100)	NA	NA	NA
Sulfate (turbidimetric)	4.20	NA	6.80	2.00	ND(4.00)	ND(4.00)	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:								
	95A / UBG95A / 10/07/97	95A / UBG95A / 04/20/98	95A / UBG95A / 12/16/98	95A / 95A / 04/29/99	95A / 95A / 10/21/99	95A / 95A / 05/09/00	95A / 95A / 11/20/00	95A / 95A / 05/07/04
Volatile Organics								
Benzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0050)	0.014	ND(0.0050)
Chlorobenzene	0.0010 J	ND(0.010)	ND(0.010)	0.0030 J	0.0010 J	ND(0.0050)	0.0070	ND(0.0050)
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0020)
Total VOCs	0.0020 J	0.0040 J	0.0020 J	0.0060 J	0.0060 J	ND(0.20)	0.021	ND(0.20)
Semivolatile Organics								
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	ND(0.010)
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	ND(0.010)
Natural Attenuation Parameters								
Alkalinity (Total)	NA	NA	NA	NA	NA	NA	NA	100
Alkalinity to pH 4.5	NA	NA	105	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	NA	NA	ND(1.00)	NA	NA	NA	NA	NA
Ammonia Nitrogen	NA	NA	ND(0.200)	NA	NA	NA	NA	NA
Chloride	NA	NA	ND(1.0)	NA	NA	NA	NA	1.0
Dissolved Iron	NA	NA	21.4	NA	NA	NA	NA	ND(0.0500)
Dissolved Organic Carbon	NA	NA	ND(1.00)	NA	NA	NA	NA	1.30
Ethane	NA	NA	ND(0.0050)	NA	NA	NA	NA	NA
Ethene	NA	NA	ND(0.0050)	NA	NA	NA	NA	NA
Methane	NA	NA	1.20	NA	NA	NA	NA	NA
Nitrate Nitrogen	NA	NA	NA	NA	NA	NA	NA	0.0620
Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA	ND(0.0500)
Sulfate (turbidimetric)	NA	NA	ND(4.00)	NA	NA	NA	NA	2.60
Total Nitrate/Nitrite Nitrogen	NA	NA	ND(0.100)	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID: / Sample ID: / Parameter / Date Collected:	95A 95A 04/22/05	95A 95A 05/01/06	95A 95A 05/10/07	95B UBG95B 12/05/96	95B UBG95B 04/25/97	95B UBG95BX (Bailer) 04/25/97
Volatile Organics						
Benzene	ND(0.0050)	ND(0.0050)	ND(0.0010) [ND(0.0010)]	0.049 J	ND(2.1)	1.9
Chlorobenzene	0.00053 J	ND(0.0050)	ND(0.0010) [ND(0.0010)]	1.4	8.7	8.0
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0010) [ND(0.0010)]	ND(0.050)	ND(0.33)	ND(0.33)
Vinyl Chloride	ND(0.0020)	ND(0.0020)	ND(0.0010) [ND(0.0010)]	ND(0.10)	0.79	0.68
Total VOCs	0.00053 J	ND(0.20)	0.00049 J [0.00063 J]	1.4 J	12 J	11 J
Semivolatile Organics						
2-Chlorophenol	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	NA	NA	NA
4-Chlorophenol	ND(0.010)	ND(0.010)	ND(0.010) J [ND(0.010) J]	NA	NA	NA
Natural Attenuation Parameters						
Alkalinity (Total)	100	110	130 [130]	NA	NA	NA
Alkalinity to pH 4.5	NA	NA	NA	NA	269	NA
Alkalinity to pH 8.3	NA	NA	NA	NA	ND(1.00)	NA
Ammonia Nitrogen	NA	NA	NA	NA	0.340	NA
Chloride	ND(2.1)	1.7	1.4 [1.4]	NA	130	NA
Dissolved Iron	0.720	ND(0.100)	ND(0.100) J [ND(0.100) J]	NA	NA	NA
Dissolved Organic Carbon	ND(1.0)	1.40	ND(1.00) [ND(1.00)]	NA	4.70	NA
Ethane	ND(0.0040)	ND(0.020)	ND(0.020) [ND(0.020)]	NA	0.018	NA
Ethene	ND(0.0030)	ND(0.020)	ND(0.020) [ND(0.020)]	NA	0.18	NA
Methane	0.270	0.320	0.134 [0.0880]	NA	1.14	NA
Nitrate Nitrogen	ND(.05)	ND(0.100)	ND(0.0500) [ND(0.0500)]	NA	NA	NA
Nitrite Nitrogen	0.00370 B	ND(0.500)	ND(0.0100) [ND(0.0100)]	NA	NA	NA
Sulfate (turbidimetric)	0.700 B	15.0	4.40 [4.20]	NA	8.90	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:						
	95B / UBG95B / 10/07/97	95B / UBG95B / 04/20/98	95B / UBG95B / 12/16/98	95B / 95B / 04/29/99	95B / 95B / 10/21/99	95B / 95B / 05/09/00	95B / 95B / 11/20/00
Volatile Organics							
Benzene	0.027 J	0.051 J	ND(0.010)	ND(0.010)	ND(0.010)	0.018	0.091
Chlorobenzene	1.1	1.0	0.054	0.060	0.036	0.21	1.2
Trichloroethene	ND(0.050)	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	ND(0.10)	ND(0.10)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	1.1 J	1.1	0.055 J	0.063 J	0.041 J	0.23	1.3
Semivolatile Organics							
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	ND(0.0094) [ND(0.0094)]	NA	NA	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)	NA	NA	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	NA	NA	134 [179]	NA	NA	NA	NA
Alkalinity to pH 8.3	NA	NA	ND(1.00) [ND(1.00)]	NA	NA	NA	NA
Ammonia Nitrogen	NA	NA	0.220 [ND(0.200)]	NA	NA	NA	NA
Chloride	NA	NA	30 [29]	NA	NA	NA	NA
Dissolved Iron	NA	NA	1.93 [7.23]	NA	NA	NA	NA
Dissolved Organic Carbon	NA	NA	3.40 [12.2]	NA	NA	NA	NA
Ethane	NA	NA	ND(0.0050) [ND(0.0050)]	NA	NA	NA	NA
Ethene	NA	NA	ND(0.0050) [ND(0.0050)]	NA	NA	NA	NA
Methane	NA	NA	0.350 [1.30]	NA	NA	NA	NA
Nitrate Nitrogen	NA	NA	NA	NA	NA	NA	NA
Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA
Sulfate (turbidimetric)	NA	NA	6.30 [ND(2.00)]	NA	NA	NA	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	ND(0.100) [ND(0.100)]	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:					
	95B-R / 95B-R / 10/14/04	95B-R / 95B-R / 04/21/05	95B-R / 95B-R / 11/04/05	95B-R / 95B-R / 4/26-5/31/06	95B-R / 95B-R / 05/10/07	111A / PUEXG111A / 02/20/91
Volatile Organics						
Benzene	ND(0.0050)	0.047	ND(0.0050)	0.0031 J [0.0030 J]	2.3	ND(0.0050)
Chlorobenzene	0.077 J	0.37	0.012	0.073 [0.074]	9.7	ND(0.0050)
Trichloroethene	ND(0.0050)	ND(0.010)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.40)	ND(0.0050)
Vinyl Chloride	ND(0.0050)	ND(0.010)	ND(0.0020)	ND(0.0020) [ND(0.0020)]	ND(0.40)	ND(0.010)
Total VOCs	0.077 J	0.42	0.012	0.076 J [0.077 J]	12	0.0050 J
Semivolatile Organics						
2-Chlorophenol	R	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	0.0090 J	NA
4-Chlorophenol	R	ND(0.010)	NA	ND(0.010) [ND(0.010)]	0.020 J	NA
Natural Attenuation Parameters						
Alkalinity (Total)	NA	180	NA	180 [190]	260	NA
Alkalinity to pH 4.5	NA	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	NA	NA	NA	NA	NA	NA
Chloride	NA	97	NA	87 [83]	140	NA
Dissolved Iron	NA	0.820	NA	0.510 [0.490]	ND(0.100) J	NA
Dissolved Organic Carbon	NA	3.40	NA	3.80 [4.00]	4.30	NA
Ethane	NA	ND(0.020)	NA	ND(0.20) [ND(0.20)]	0.051	NA
Ethene	NA	ND(0.015)	NA	ND(0.20) [ND(0.20)]	0.044	NA
Methane	NA	0.600 J	NA	2.46 [2.71]	1.57	NA
Nitrate Nitrogen	NA	0.0130 B	NA	ND(0.100) [ND(0.100)]	ND(0.0500)	NA
Nitrite Nitrogen	NA	0.00440 B	NA	ND(0.500) [ND(0.500)]	ND(0.100)	NA
Sulfate (turbidimetric)	NA	2.00 J	NA	ND(5.00) [ND(5.00)]	3.80	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:						
	111A / UBG111A / 12/09/96	111A / UBG111A / 05/05/97	111A / UBG111A / 10/09/97	111A / UBG111A / 04/14/98	111A / UBG111A / 12/21/98	111A / UBG111A / 12/22/98	111A / 111A / 04/30/99
Volatile Organics							
Benzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	NA	ND(0.010)
Chlorobenzene	ND(0.010)	ND(0.010)	0.0010 J	ND(0.010)	0.0050 J	NA	ND(0.010)
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	NA	ND(0.010)
Vinyl Chloride	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	NA	ND(0.010)
Total VOCs	ND(3.7)	0.0020 J	0.0010 J	0.0030 J	0.012 J	NA	0.0020 J
Semivolatile Organics							
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)	NA	NA	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	63.0	108	NA	NA	NA	82.4	NA
Alkalinity to pH 8.3	ND(1.00)	ND(1.00)	NA	NA	NA	7.90	NA
Ammonia Nitrogen	0.250	0.320	NA	NA	NA	0.250	NA
Chloride	240	180	NA	NA	NA	150	NA
Dissolved Iron	NA	NA	NA	NA	NA	ND(0.100)	NA
Dissolved Organic Carbon	1.30	1.90	NA	NA	NA	1.40	NA
Ethane	ND(0.0050)	ND(0.0050)	NA	NA	NA	ND(0.0050)	NA
Ethene	ND(0.0050)	ND(0.0050)	NA	NA	NA	ND(0.0050)	NA
Methane	0.290	0.440	NA	NA	NA	0.190	NA
Nitrate Nitrogen	NA	NA	NA	NA	NA	NA	NA
Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA
Sulfate (turbidimetric)	43.2	52.0	NA	NA	NA	27.5	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	ND(0.100)	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:							
	Location ID:	111A	111A	111A	111A-R	111A-R	111A-R	111B
	Sample ID:	111A	111A	111A	111A-R	111A-R	111A-R	PUEXG111B
Parameter	Date Collected:	10/20/99	05/10/00	11/17/00	04/14/05	04/24/06	05/07/07	02/20/91
Volatile Organics								
Benzene		ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0010)	ND(0.0050)
Chlorobenzene		0.0070 JB	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0010)	ND(0.0050)
Trichloroethene		ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0010)	ND(0.0050)
Vinyl Chloride		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0020)	ND(0.0020) [ND(0.0020)]	ND(0.0010)	ND(0.010)
Total VOCs		0.016 J	ND(0.20)	ND(0.20)	0.017	ND(0.20) [ND(0.20)]	ND(0.10)	0.0040 J
Semivolatile Organics								
2-Chlorophenol		NA	NA	NA	NA	NA	NA	NA
4-Chlorophenol		NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters								
Alkalinity (Total)		NA	NA	NA	120	140 [140]	140	NA
Alkalinity to pH 4.5		NA	NA	NA	NA	NA	NA	NA
Alkalinity to pH 8.3		NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen		NA	NA	NA	NA	NA	NA	NA
Chloride		NA	NA	NA	110	92 [92]	92	NA
Dissolved Iron		NA	NA	NA	ND(0.0500)	ND(0.100) [ND(0.100)]	0.0101 B	NA
Dissolved Organic Carbon		NA	NA	NA	ND(1.4)	0.960 B [0.940 B]	1.20	NA
Ethane		NA	NA	NA	ND(0.0040)	ND(0.020) [ND(0.020)]	ND(0.020)	NA
Ethene		NA	NA	NA	ND(0.0030)	ND(0.020) [ND(0.020)]	ND(0.020)	NA
Methane		NA	NA	NA	ND(0.00200)	ND(0.00720) [ND(0.00720)]	ND(0.00720)	NA
Nitrate Nitrogen		NA	NA	NA	0.00810 B	ND(0.100) [ND(0.100)]	ND(0.0500)	NA
Nitrite Nitrogen		NA	NA	NA	ND(0.0500)	ND(0.500) [ND(0.500)]	ND(0.0100)	NA
Sulfate (turbidimetric)		NA	NA	NA	54.0	120 J [76.0 J]	71.0	NA
Total Nitrate/Nitrite Nitrogen		NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Location ID: / Sample ID: / Date Collected:	111B UBG111B 12/09/96	111B UBG111B 05/05/97	111B UBG111B 10/09/97	111B UBG111B 04/14/98	111B UBG111B 12/21/98	111B UBG111B 12/22/98	111B 111B 04/30/99
Volatile Organics							
Benzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	NA	ND(0.010)
Chlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.012	NA	ND(0.010)
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)	NA	ND(0.010)
Vinyl Chloride	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	NA	ND(0.010)
Total VOCs	ND(3.7)	ND(3.7)	ND(3.7)	0.0020 J	0.019 J	NA	0.0030 J
Semivolatile Organics							
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)	NA	NA	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	117	116	NA	NA	NA	134	NA
Alkalinity to pH 8.3	ND(1.00)	ND(1.00)	NA	NA	NA	ND(1.00)	NA
Ammonia Nitrogen	ND(0.00500)	ND(0.00500)	NA	NA	NA	ND(0.200)	NA
Chloride	3.4	3.8	NA	NA	NA	2.9	NA
Dissolved Iron	NA	NA	NA	NA	NA	ND(0.100)	NA
Dissolved Organic Carbon	1.40	1.90	NA	NA	NA	1.40	NA
Ethane	ND(0.0050)	ND(0.0050)	NA	NA	NA	ND(0.0050)	NA
Ethene	ND(0.0050)	ND(0.0050)	NA	NA	NA	ND(0.0050)	NA
Methane	ND(0.00500)	ND(0.00500)	NA	NA	NA	ND(0.00500)	NA
Nitrate Nitrogen	NA	NA	NA	NA	NA	NA	NA
Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA
Sulfate (turbidimetric)	254	241	NA	NA	NA	230	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	3.09	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID: / Sample ID: / Parameter / Date Collected:	111B 111B 10/20/99	111B 111B 05/10/00	111B 111B 11/17/00	111B 111B 04/22/04	111B 111B 10/22/04	111-BR 111-BR 11/03/05	111B-R 111B-R 04/21/05	111B-R 111B-R 04/25/06
Volatile Organics								
Benzene	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0030 J	ND(0.0050)
Trichloroethene	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050) J
Vinyl Chloride	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Total VOCs	0.0040 J	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	0.0050 J	ND(0.20)
Semivolatile Organics								
2-Chlorophenol	NA	NA	NA	ND(0.010)	NA	ND(0.010)	ND(0.010)	ND(0.010)
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters								
Alkalinity (Total)	NA	NA	NA	120	NA	NA	180	87.0
Alkalinity to pH 4.5	NA	NA	NA	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	NA	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	37	NA	NA	13	8.8
Dissolved Iron	NA	NA	NA	ND(0.0500)	NA	NA	ND(0.0500)	ND(0.100)
Dissolved Organic Carbon	NA	NA	NA	2.50	NA	NA	1.90	1.20
Ethane	NA	NA	NA	ND(0.0040)	NA	NA	ND(0.0040)	ND(0.020)
Ethene	NA	NA	NA	ND(0.0030)	NA	NA	ND(0.0030)	ND(0.020)
Methane	NA	NA	NA	ND(0.00200)	NA	NA	ND(0.00200)	ND(0.00720)
Nitrate Nitrogen	NA	NA	NA	5.20	NA	NA	5.90	6.30
Nitrite Nitrogen	NA	NA	NA	ND(0.0500)	NA	NA	0.0240 B	ND(0.500)
Sulfate (turbidimetric)	NA	NA	NA	310	NA	NA	250 J	170
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Location ID: / Sample ID: / Date Collected:	111B-R 111B-R 05/08/07	114A PUEXG114A 02/21/91	114A UBG114A 12/11/96	114A UBG114A 05/02/97	114A UBG114A 10/08/97	114A UBG114A 04/20/98
Volatile Organics						
Benzene	0.00038 J	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chlorobenzene	0.0020 J	ND(0.0050)	0.0030 J	0.0020 J	0.0010 J	0.0010 J
Trichloroethene	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	ND(0.0010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	0.0024 J	0.0020 J	0.0030 J	0.0070 J	0.0010 J	0.0040 J
Semivolatile Organics						
2-Chlorophenol	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters						
Alkalinity (Total)	150	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	NA	NA	NA	132	NA	NA
Alkalinity to pH 8.3	NA	NA	NA	ND(1.00)	NA	NA
Ammonia Nitrogen	NA	NA	NA	0.110	NA	NA
Chloride	11	NA	NA	ND(1.0)	NA	NA
Dissolved Iron	ND(0.100)	NA	NA	NA	NA	NA
Dissolved Organic Carbon	1.10	NA	NA	1.50	NA	NA
Ethane	ND(0.020)	NA	NA	ND(0.0050)	NA	NA
Ethene	ND(0.020)	NA	NA	ND(0.0050)	NA	NA
Methane	ND(0.00720)	NA	NA	0.340	NA	NA
Nitrate Nitrogen	5.90	NA	NA	NA	NA	NA
Nitrite Nitrogen	ND(0.0100)	NA	NA	NA	NA	NA
Sulfate (turbidimetric)	190	NA	NA	4.20	NA	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID: / Sample ID: / Parameter / Date Collected:	114A UBG114A 12/15/98	114A 114A 04/27/99	114A 114A 10/19/99	114A 114A 05/09/00	114A 114A 11/20/00	114A 114A 04/30/04	114A 114A 04/21/05	114A 114A 12/08/05
Volatile Organics								
Benzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(1.0)	0.68 J
Chlorobenzene	ND(0.010)	ND(0.010)	0.0050 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	12	ND(1.0)
Trichloroethene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(1.0)	ND(1.0)
Vinyl Chloride	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0020)	ND(1.0)	ND(1.0)
Total VOCs	0.0050 J	0.0020 J	0.0050 J	ND(0.20)	ND(0.20)	ND(0.20)	12	97
Semivolatile Organics								
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters								
Alkalinity (Total)	NA	NA	NA	NA	NA	130	130	NA
Alkalinity to pH 4.5	127	NA	NA	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	ND(1.00)	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	ND(0.200)	NA	NA	NA	NA	NA	NA	NA
Chloride	2.5	NA	NA	NA	NA	1.4	1.5	NA
Dissolved Iron	1.33	NA	NA	NA	NA	ND(0.0500)	ND(0.0500)	NA
Dissolved Organic Carbon	ND(1.00)	NA	NA	NA	NA	2.20	0.510 B	NA
Ethane	ND(0.0050)	NA	NA	NA	NA	ND(0.0040)	ND(0.0040)	NA
Ethene	ND(0.0050)	NA	NA	NA	NA	ND(0.0030)	ND(0.0030)	NA
Methane	0.420	NA	NA	NA	NA	0.0440	0.100	NA
Nitrate Nitrogen	NA	NA	NA	NA	NA	0.0360 B	0.0260 B	NA
Nitrite Nitrogen	NA	NA	NA	NA	NA	ND(0.0500)	0.00470 B	NA
Sulfate (turbidimetric)	ND(2.00)	NA	NA	NA	NA	4.80	1.20 J	NA
Total Nitrate/Nitrite Nitrogen	ND(0.100)	NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Location ID: / Sample ID: / Parameter / Date Collected:	114A 114A 05/09/06	114A 114A 05/10/07	114B PUEXG114B 02/21/91	114B UBG114B 01/29/97	114B UBG114B 05/01/97	114B UBG114B 10/08/97	114B UBG114B 04/20/98
Volatile Organics							
Benzene	ND(0.0050)	ND(0.0010)	0.0020 J	ND(0.010)	ND(0.033)	0.011 J	ND(0.010)
Chlorobenzene	ND(0.0050)	ND(0.0010)	0.13	ND(0.010)	0.33	0.40	0.079
Trichloroethene	ND(0.0050)	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.017)	0.017	ND(0.0050)
Vinyl Chloride	ND(0.0020)	ND(0.0010)	ND(0.010)	ND(0.010)	ND(0.033)	0.0060 J	ND(0.010)
Total VOCs	ND(0.20)	0.00070 J	0.13 J	ND(3.7)	0.33	0.45 J	0.081 J
Semivolatile Organics							
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)	120	130	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	NA	NA	NA	251	264	NA	NA
Alkalinity to pH 8.3	NA	NA	NA	ND(1.00)	ND(1.00)	NA	NA
Ammonia Nitrogen	NA	NA	NA	ND(0.00500)	0.0700	NA	NA
Chloride	1.6	3.8	NA	5.2	78	NA	NA
Dissolved Iron	ND(0.100)	0.0434 J	NA	NA	NA	NA	NA
Dissolved Organic Carbon	0.400 B	1.20	NA	6.80	6.40	NA	NA
Ethane	ND(0.020)	ND(0.020)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Ethene	ND(0.020)	ND(0.020)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Methane	0.330	0.285	NA	ND(0.00500)	0.310	NA	NA
Nitrate Nitrogen	ND(0.100)	ND(0.0500)	NA	NA	NA	NA	NA
Nitrite Nitrogen	ND(0.500)	ND(0.0100)	NA	NA	NA	NA	NA
Sulfate (turbidimetric)	7.70	3.40	NA	14.4	16.4	NA	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Location ID: / Sample ID: / Date Collected:	114B UBG114B 12/16/98	114B 114B 04/27/99	114B 114B 10/19/99	114B 114B 05/09/00	114B 114B 11/20/00	114B 114B 05/06/04	114B 114B 05/12/04	114B-R 114B-R 10/14/04
Volatile Organics								
Benzene	0.0010 J	0.0050 J	0.0050 J	ND(0.0050)	ND(0.010)	ND(0.0050)	NA	ND(0.050)
Chlorobenzene	0.15	0.20	0.40 D	0.40	0.21	0.0083	NA	1.0
Trichloroethene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.0050)	NA	ND(0.050)
Vinyl Chloride	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0020)	NA	ND(0.050)
Total VOCs	0.15 J	0.21	0.41 J	0.40	0.21	0.0083	NA	1.0
Semivolatile Organics								
2-Chlorophenol	NA	NA	NA	NA	NA	ND(0.010)	NA	ND(0.010)
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters								
Alkalinity (Total)	NA	NA	NA	NA	NA	NA	230	NA
Alkalinity to pH 4.5	198	NA	NA	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	ND(1.00)	NA	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	ND(0.200)	NA	NA	NA	NA	NA	NA	NA
Chloride	54	NA	NA	NA	NA	NA	67	NA
Dissolved Iron	ND(0.100)	NA	NA	NA	NA	NA	ND(0.0500)	NA
Dissolved Organic Carbon	5.20	NA	NA	NA	NA	NA	4.00	NA
Ethane	ND(0.0050)	NA	NA	NA	NA	NA	ND(0.0040)	NA
Ethene	ND(0.0050)	NA	NA	NA	NA	NA	0.0035	NA
Methane	0.170	NA	NA	NA	NA	NA	0.140	NA
Nitrate Nitrogen	NA	NA	NA	NA	NA	NA	0.00900 B	NA
Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	ND(0.0500)	NA
Sulfate (turbidimetric)	7.00	NA	NA	NA	NA	NA	10.0	NA
Total Nitrate/Nitrite Nitrogen	ND(0.100)	NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Location ID: / Sample ID: / Date Collected:	114B-R 114B-R 04/21/05	114B-R 114B-R 12/08/05	114B-R 114B-R 04/20/06	114B-R 114B-R 05/10/07	115A UBG115A 12/12/96	115A UBG115A 05/05/97	115A UBG115A 10/08/97
Volatile Organics							
Benzene	ND(0.050)	ND(0.050)	0.021 J	0.10	ND(0.010)	ND(0.010)	ND(0.010)
Chlorobenzene	1.4	3.3	0.29	2.0	ND(0.010)	ND(0.010)	ND(0.010)
Trichloroethene	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.080)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	ND(0.050)	ND(0.050)	0.013 J	0.11	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	1.4	3.3	0.32 J	2.2	ND(3.7)	ND(3.7)	ND(3.7)
Semivolatile Organics							
2-Chlorophenol	ND(0.010)	R	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)	250	NA	270	210	NA	NA	NA
Alkalinity to pH 4.5	NA	NA	NA	NA	NA	148	NA
Alkalinity to pH 8.3	NA	NA	NA	NA	NA	ND(1.00)	NA
Ammonia Nitrogen	NA	NA	NA	NA	NA	0.0600	NA
Chloride	87	NA	110	170	NA	ND(1.0)	NA
Dissolved Iron	ND(0.0500)	NA	ND(0.100)	ND(0.100) J	NA	NA	NA
Dissolved Organic Carbon	2.50	NA	2.20	2.50	NA	1.60	NA
Ethane	ND(0.0040)	NA	ND(0.020)	ND(0.020)	NA	ND(0.0050)	NA
Ethene	ND(0.0030)	NA	ND(0.020)	ND(0.020)	NA	ND(0.0050)	NA
Methane	0.170	NA	0.140	0.205	NA	0.0130	NA
Nitrate Nitrogen	0.0810	NA	ND(0.100)	ND(0.0500)	NA	NA	NA
Nitrite Nitrogen	0.00470 B	NA	ND(0.500)	ND(0.0500)	NA	NA	NA
Sulfate (turbidimetric)	5.50 J	NA	9.70	12.0	NA	5.40	NA
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Location ID: / Sample ID: / Date Collected:	115A UBG115A 04/21/98	115A UBG115A 12/23/98	115A 115A 04/30/99	115A 115A 10/22/99	115A 115A 05/08/00	115A 115A 11/17/00	115A 115A 05/10/06
Volatile Organics							
Benzene	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0050)	0.10	ND(0.0050)
Chlorobenzene	0.012 J	ND(0.010)	ND(0.010)	0.0040 J	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	ND(0.025)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0050)	0.014	ND(0.0050)
Vinyl Chloride	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0020)
Total VOCs	0.012 J	0.0020 J	0.0020 J	0.0080 J	ND(0.20)	0.11	ND(0.20)
Semivolatile Organics							
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters							
Alkalinity (Total)	NA	NA	NA	NA	NA	NA	150
Alkalinity to pH 4.5	NA	157	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	NA	ND(1.00)	NA	NA	NA	NA	NA
Ammonia Nitrogen	NA	ND(0.200)	NA	NA	NA	NA	NA
Chloride	NA	ND(1.0)	NA	NA	NA	NA	2.0
Dissolved Iron	NA	0.250	NA	NA	NA	NA	ND(0.100)
Dissolved Organic Carbon	NA	ND(1.00)	NA	NA	NA	NA	0.610 B
Ethane	NA	ND(0.0050)	NA	NA	NA	NA	ND(0.020)
Ethene	NA	ND(0.0050)	NA	NA	NA	NA	ND(0.020)
Methane	NA	ND(0.00500)	NA	NA	NA	NA	ND(0.00720)
Nitrate Nitrogen	NA	NA	NA	NA	NA	NA	ND(0.100)
Nitrite Nitrogen	NA	NA	NA	NA	NA	NA	ND(0.500)
Sulfate (turbidimetric)	NA	2.30	NA	NA	NA	NA	ND(5.00)
Total Nitrate/Nitrite Nitrogen	NA	ND(0.100)	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter / Location ID: / Sample ID: / Date Collected:	115A 115A 05/14/07	115B UBG115B 12/06/96	115B UBG115B 05/05/97	115B UBG115B 10/08/97	115B UBG115B 04/21/98	115B UBG115B 12/23/98
Volatile Organics						
Benzene	ND(0.0010)	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010) [ND(0.010)]	ND(0.010)
Chlorobenzene	ND(0.0010)	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010) [ND(0.010)]	ND(0.010)
Trichloroethene	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050) [ND(0.0050)]	ND(0.010)
Vinyl Chloride	ND(0.0010)	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010) [ND(0.010)]	ND(0.010)
Total VOCs	0.00040 J	ND(3.7)	ND(3.7)	ND(3.7) [ND(3.7)]	0.0050 J [0.0050 J]	0.0030 J
Semivolatile Organics						
2-Chlorophenol	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters						
Alkalinity (Total)	160	NA	NA	NA	NA	NA
Alkalinity to pH 4.5	NA	284	199	NA	NA	203
Alkalinity to pH 8.3	NA	ND(1.00)	ND(1.00)	NA	NA	ND(1.00)
Ammonia Nitrogen	NA	ND(0.00500)	2.20	NA	NA	ND(0.200)
Chloride	1.2	3.1	16	NA	NA	8.4
Dissolved Iron	ND(0.100) J	NA	NA	NA	NA	ND(0.100)
Dissolved Organic Carbon	ND(1.00)	2.00	10.1	NA	NA	1.10
Ethane	ND(0.020)	ND(0.0050)	0.0070	NA	NA	ND(0.0050)
Ethene	ND(0.020)	ND(0.0050)	ND(0.0050)	NA	NA	ND(0.0050)
Methane	ND(0.00720)	0.00800	0.0110	NA	NA	0.0130
Nitrate Nitrogen	ND(0.0500)	NA	NA	NA	NA	NA
Nitrite Nitrogen	ND(0.0100)	NA	NA	NA	NA	NA
Sulfate (turbidimetric)	4.20	16.8	0.190	NA	NA	11.0
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	0.170

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Parameter	Location ID: / Sample ID: / Date Collected:					
	115B / 115B / 04/30/99	115B / 115B / 10/22/99	115B / 115B / 05/08/00	115B / 115B / 11/20/00	115B / 115B / 05/10/06	115B / 115B / 05/14/07
Volatile Organics						
Benzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Chlorobenzene	ND(0.010) [ND(0.010)]	0.0060 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Trichloroethene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Vinyl Chloride	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0020)	ND(0.0010)
Total VOCs	0.0030 J [0.0020 J]	0.010 J	ND(0.20)	ND(0.20)	ND(0.20)	0.00055 J
Semivolatile Organics						
2-Chlorophenol	NA	NA	NA	NA	NA	NA
4-Chlorophenol	NA	NA	NA	NA	NA	NA
Natural Attenuation Parameters						
Alkalinity (Total)	NA	NA	NA	NA	240	250
Alkalinity to pH 4.5	NA	NA	NA	NA	NA	NA
Alkalinity to pH 8.3	NA	NA	NA	NA	NA	NA
Ammonia Nitrogen	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	8.6	13
Dissolved Iron	NA	NA	NA	NA	ND(0.100)	ND(0.100) J
Dissolved Organic Carbon	NA	NA	NA	NA	1.40	ND(1.00)
Ethane	NA	NA	NA	NA	ND(0.020)	ND(0.020)
Ethene	NA	NA	NA	NA	ND(0.020)	ND(0.020)
Methane	NA	NA	NA	NA	ND(0.00720)	ND(0.00720)
Nitrate Nitrogen	NA	NA	NA	NA	0.360	0.110
Nitrite Nitrogen	NA	NA	NA	NA	ND(0.500)	ND(0.0100)
Sulfate (turbidimetric)	NA	NA	NA	NA	13.0	14.0
Total Nitrate/Nitrite Nitrogen	NA	NA	NA	NA	NA	NA

Table E-1
Groundwater Analytical Results - Natural Attenuation Parameters

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected on behalf of General Electric Company and analyzed for Appendix IX+3 constituents and Natural Attenuation Parameters.
2. Select Volatile Organics, 2-Chlorophenol, 4-Chlorophenol and Natural Attenuation Parameter results are presented.
3. NA - Not Analyzed.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
5. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, semivolatiles)

B - Analyte was also detected in the associated method blank.
D - Compound quantitated using a secondary dilution.
E - Analyte exceeded calibration range.
J - Estimated Value.
R - Rejected.

Natural Attenuation Parameters

B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
E - Serial dilution results not within 10%. Applicable only if analyte concentration is at least 50X the IDL in original sample.
J - Estimated Value.
N - Indicates sample matrix spike analysis was outside control limits.
* - Indicates laboratory duplicate analysis was outside control limits.

ARCADIS BBL

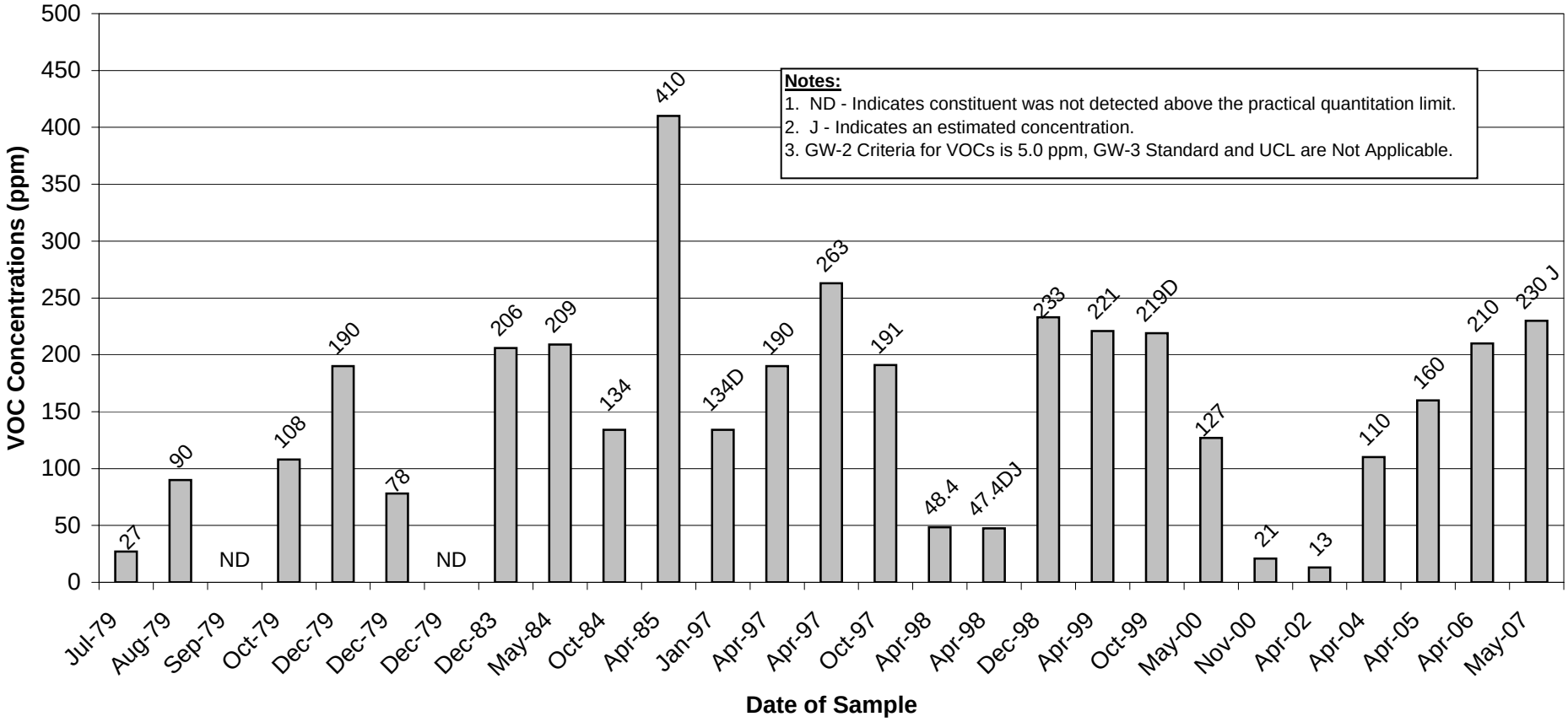
Historical Groundwater Data

Total VOC Concentrations –
Wells Sampled in Spring 2007

Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

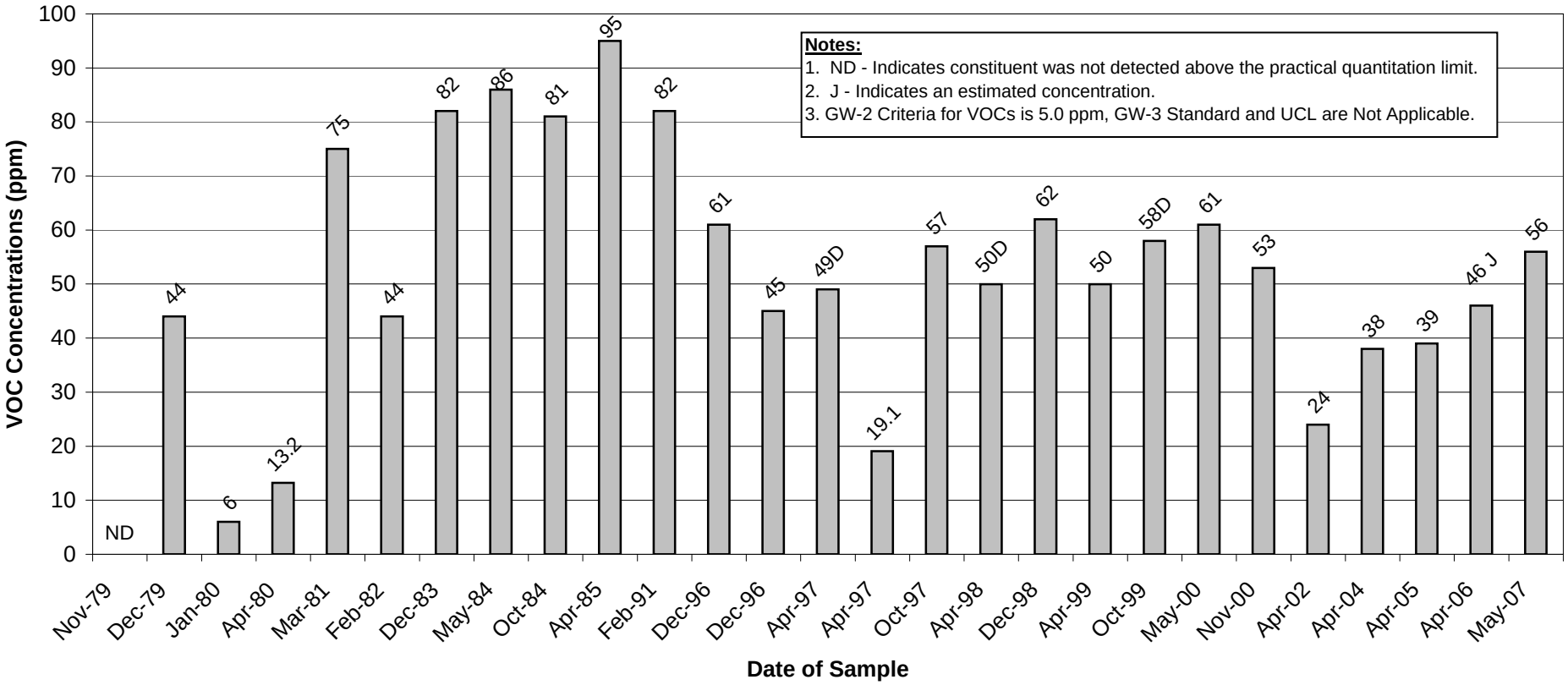
Well 2A Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

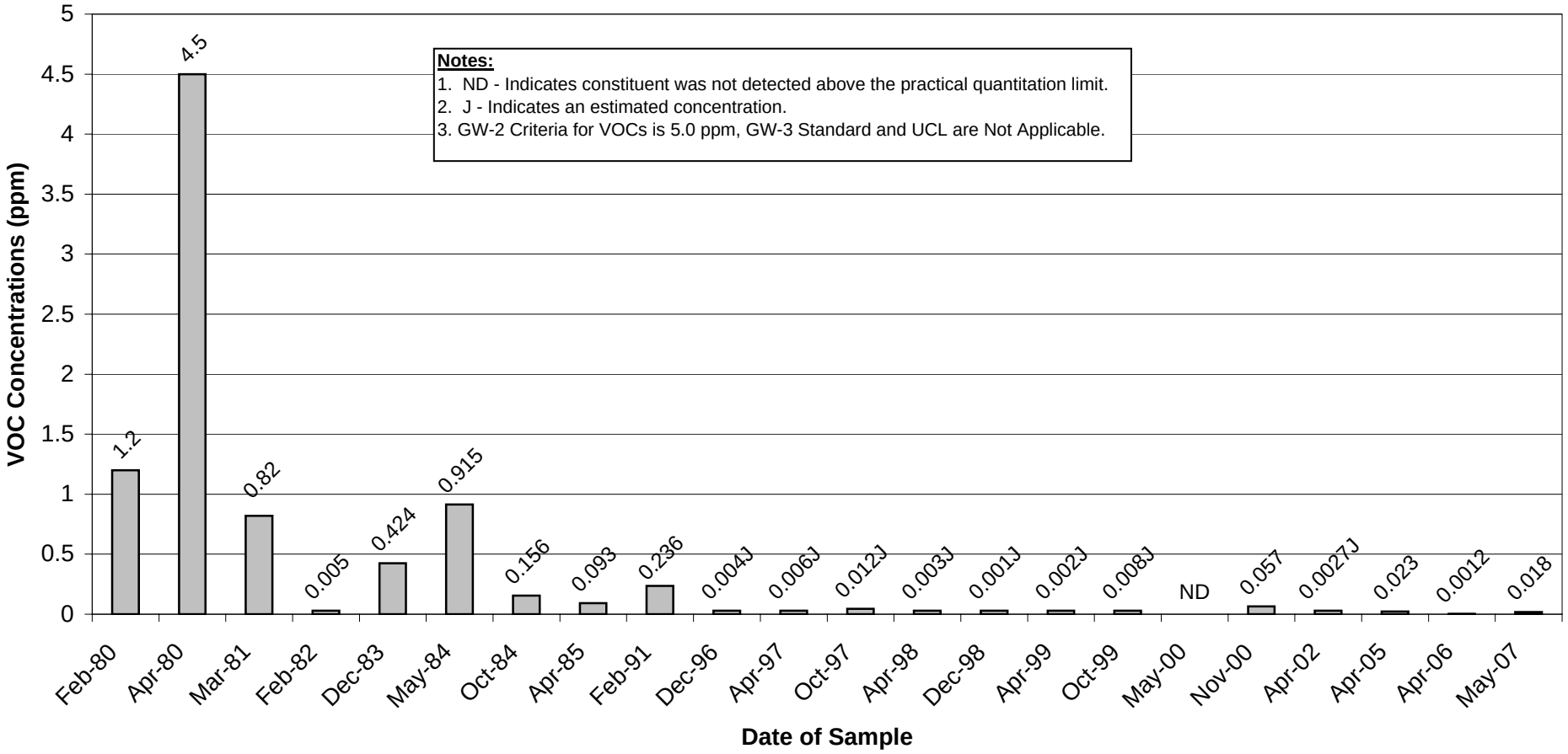
Well 16A Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

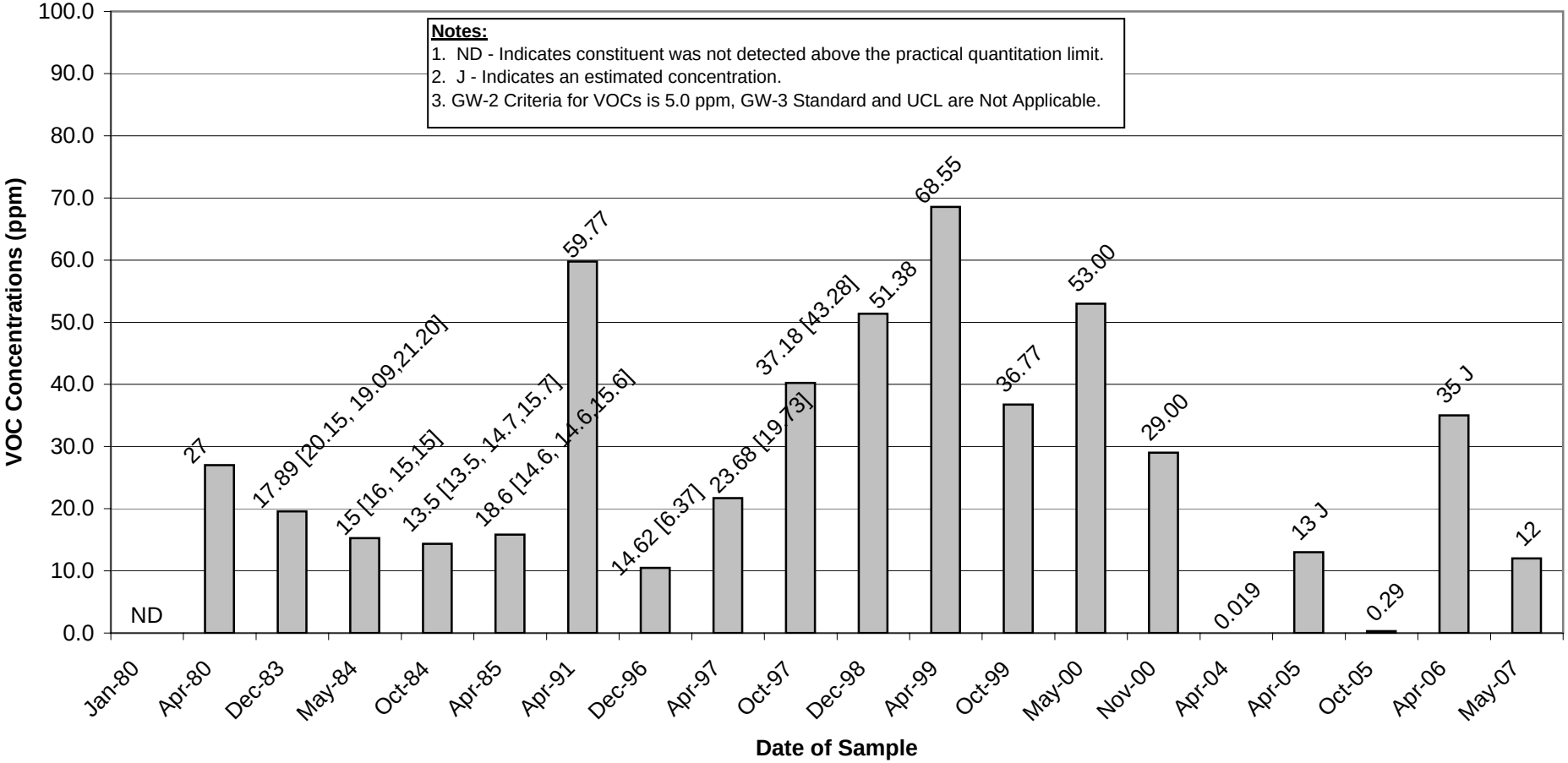
Well 16C/16C-R Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

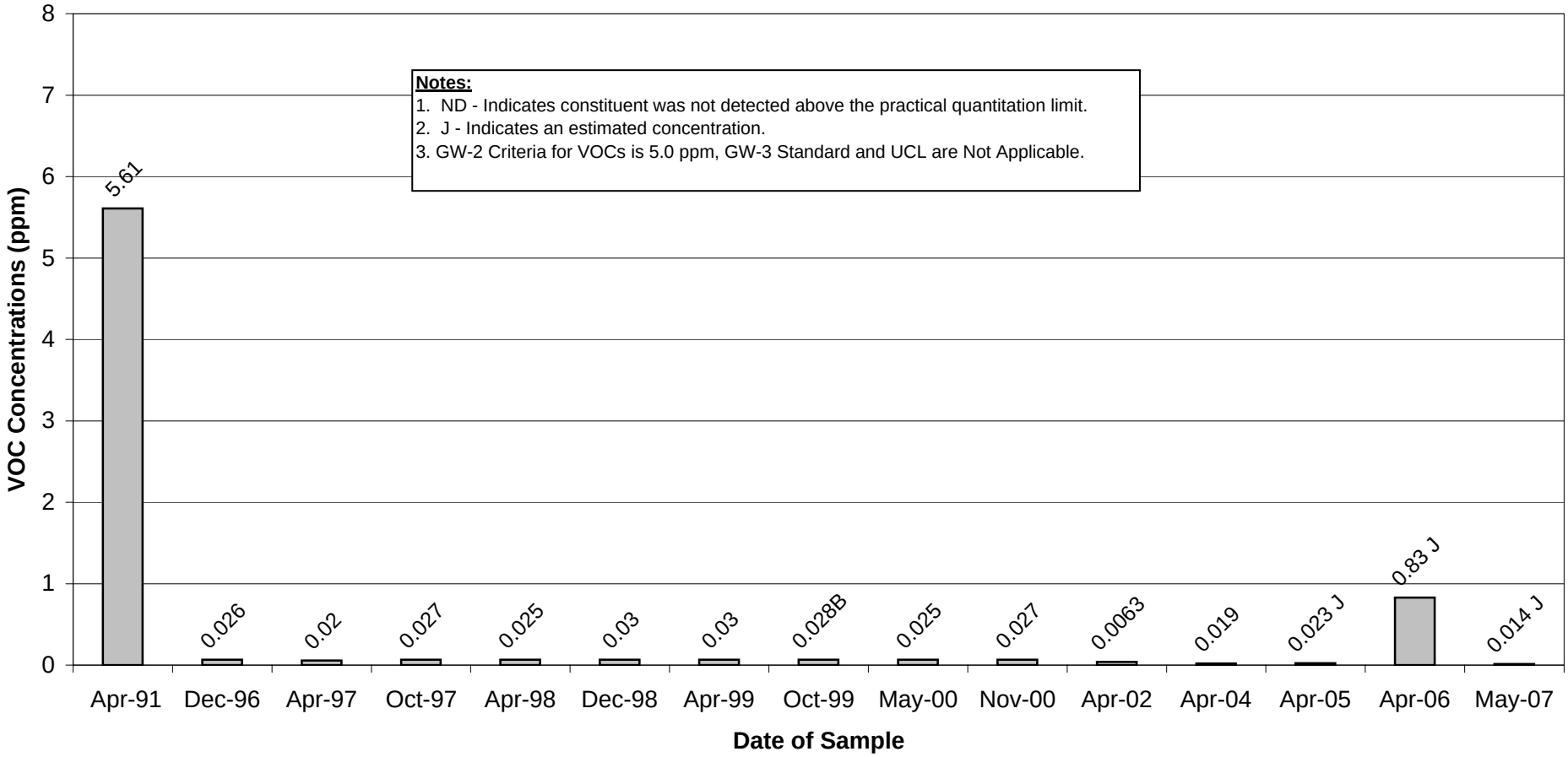
Well 39B/39B-R Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

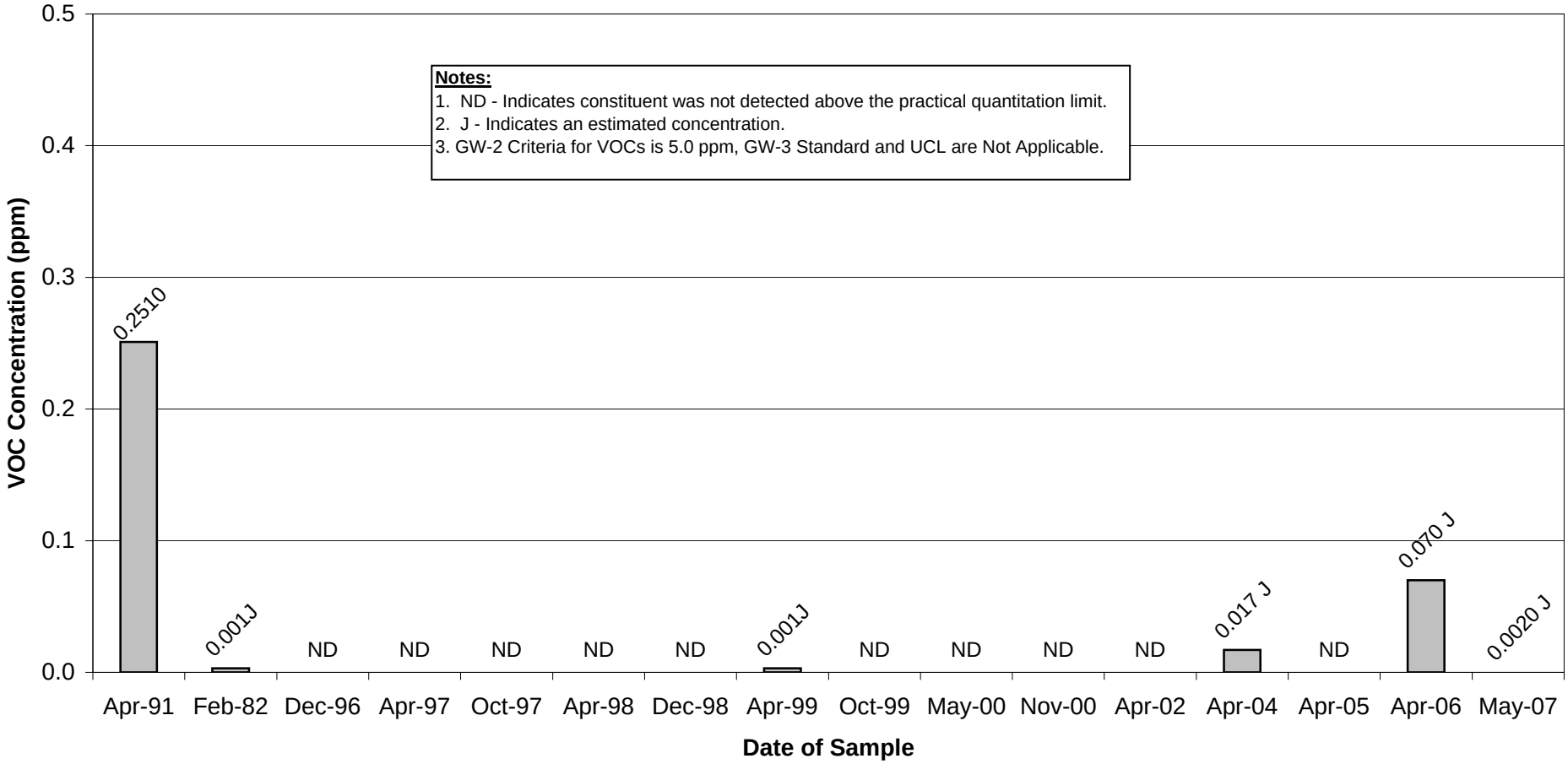
Well 39D/39D-R Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

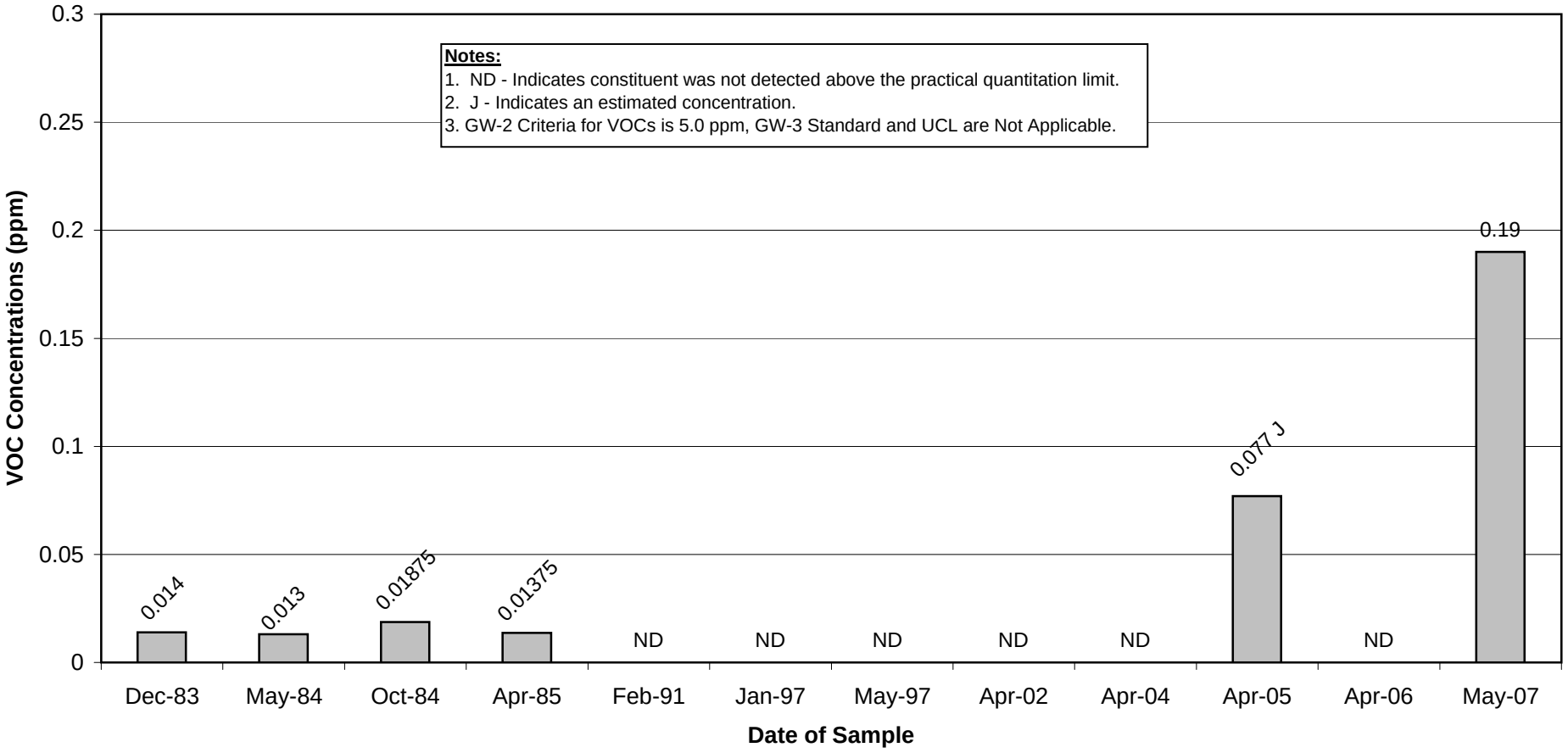
Well 39E Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

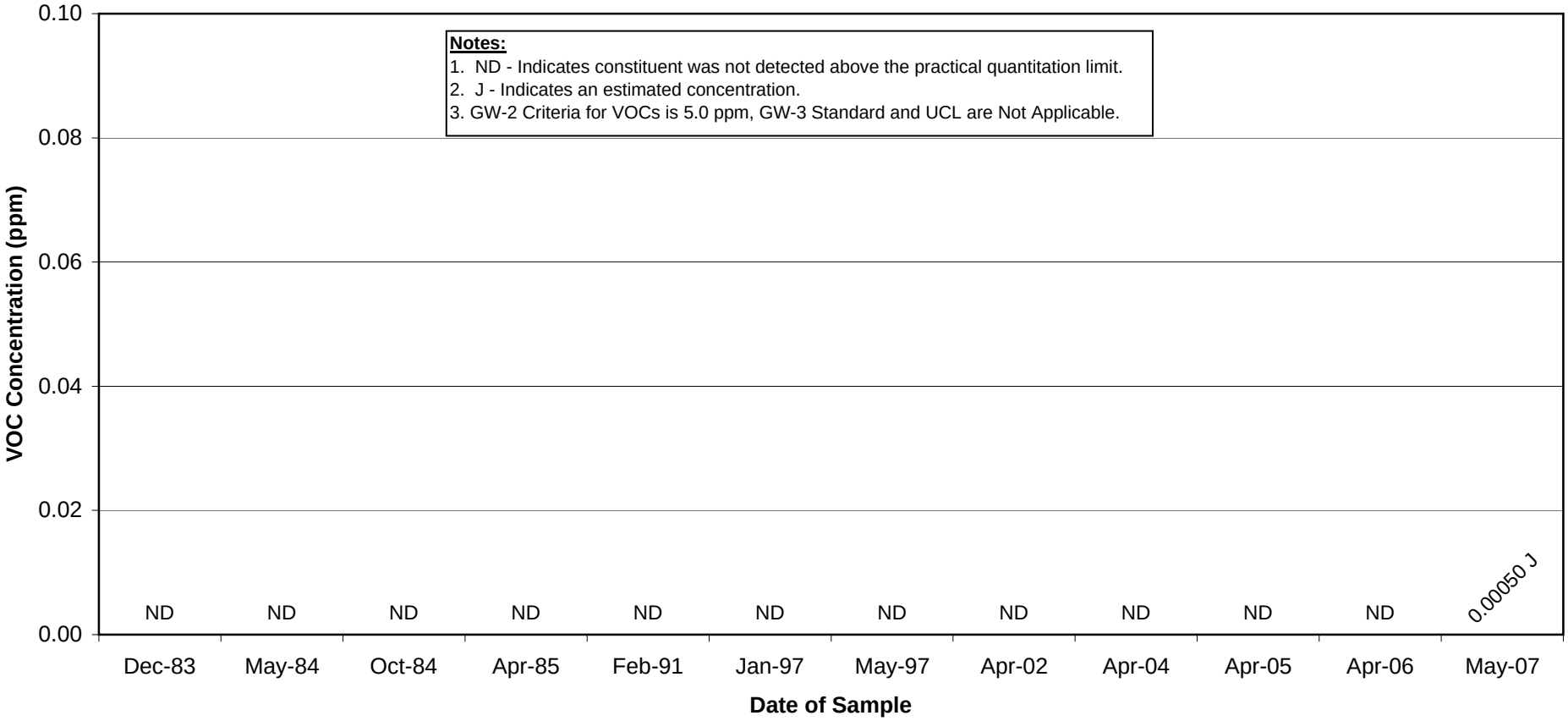
Well 43A Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric - Pittsfield, Massachusetts

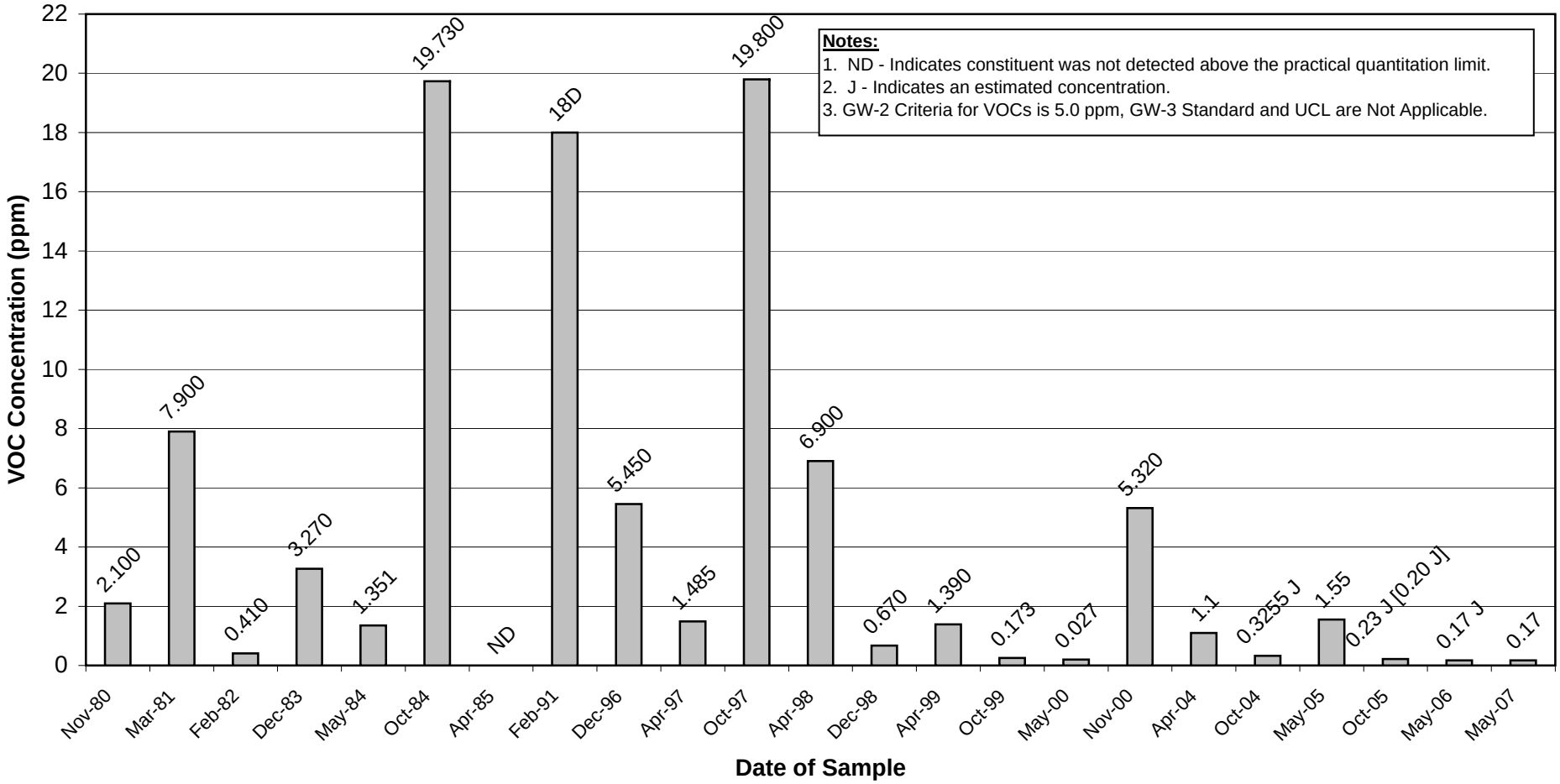
Well 43B Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

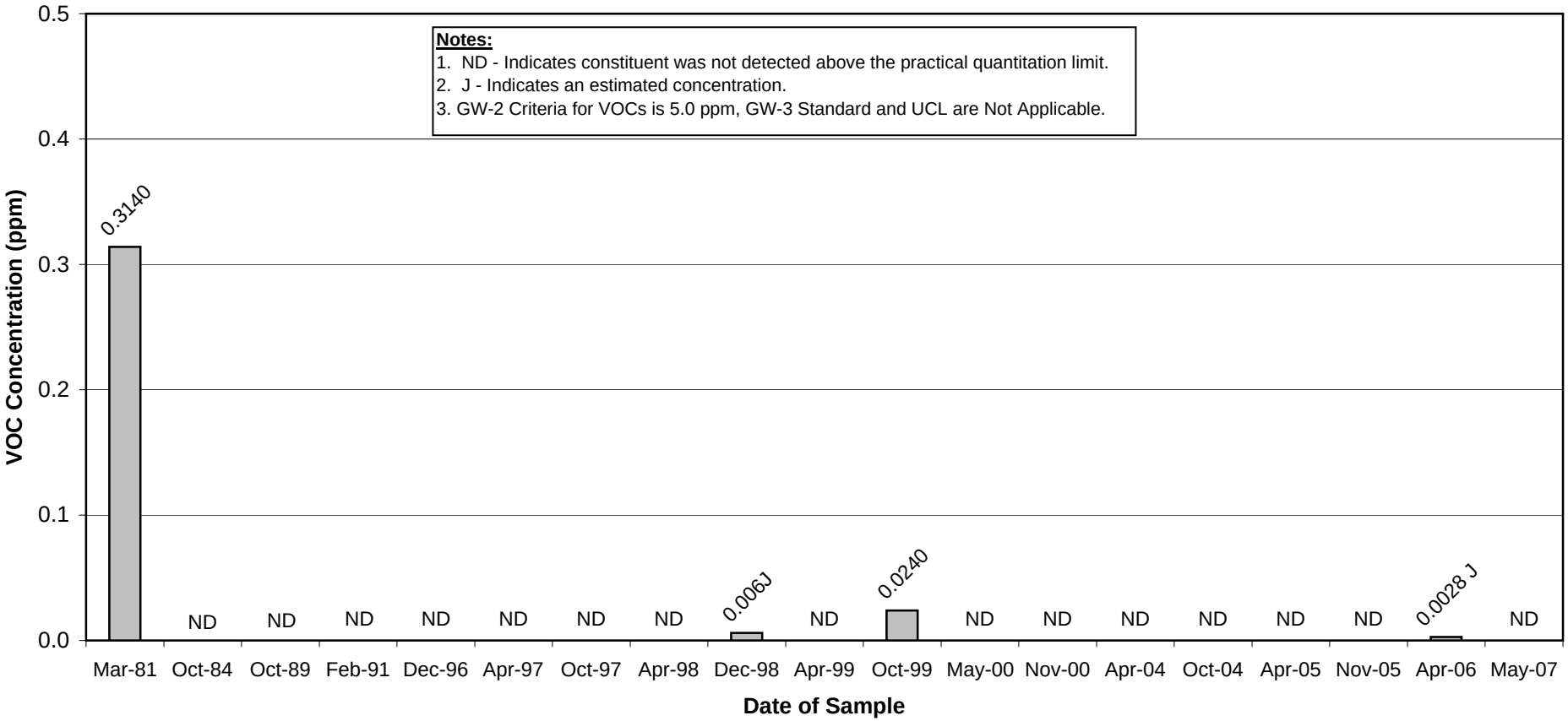
Well 89B Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

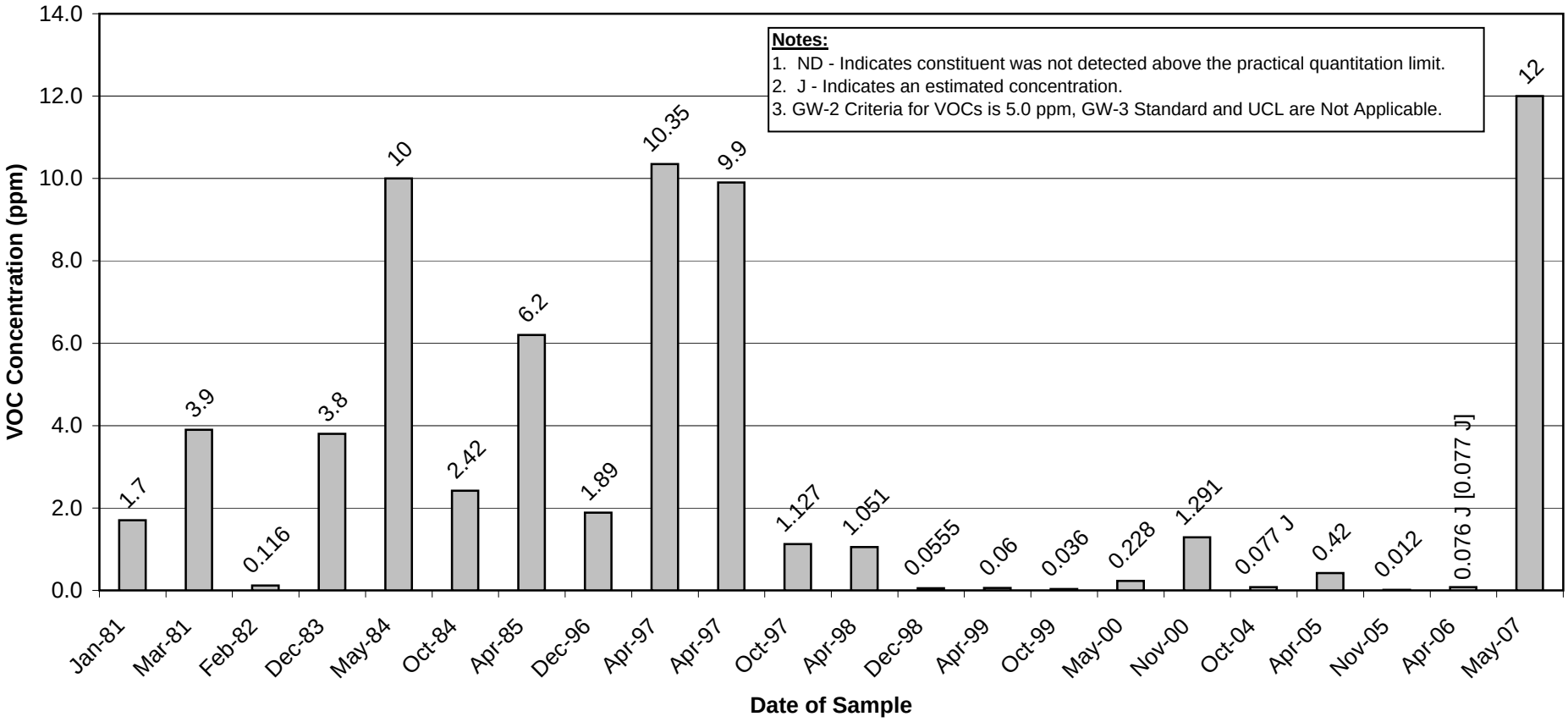
Well 90B Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

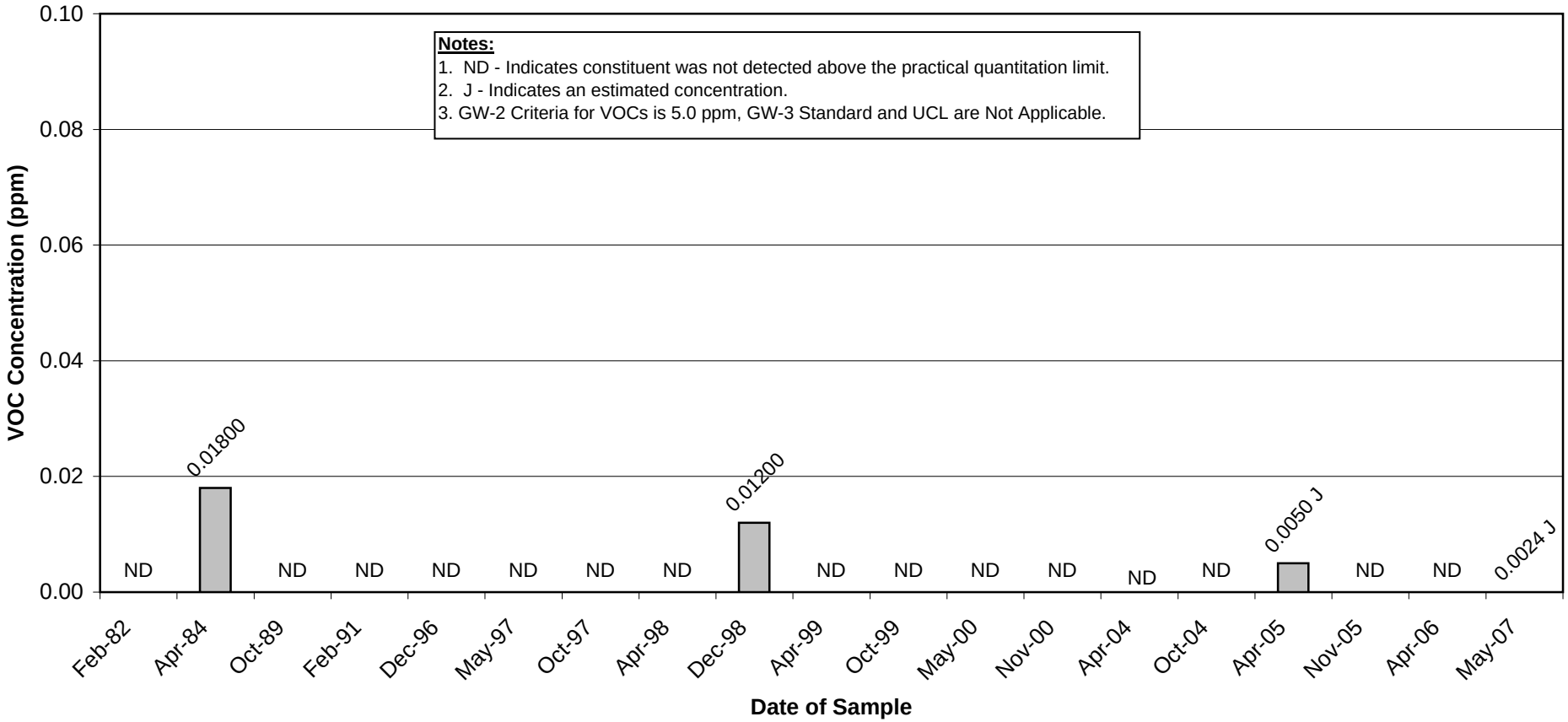
Well 95B/95B-R Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

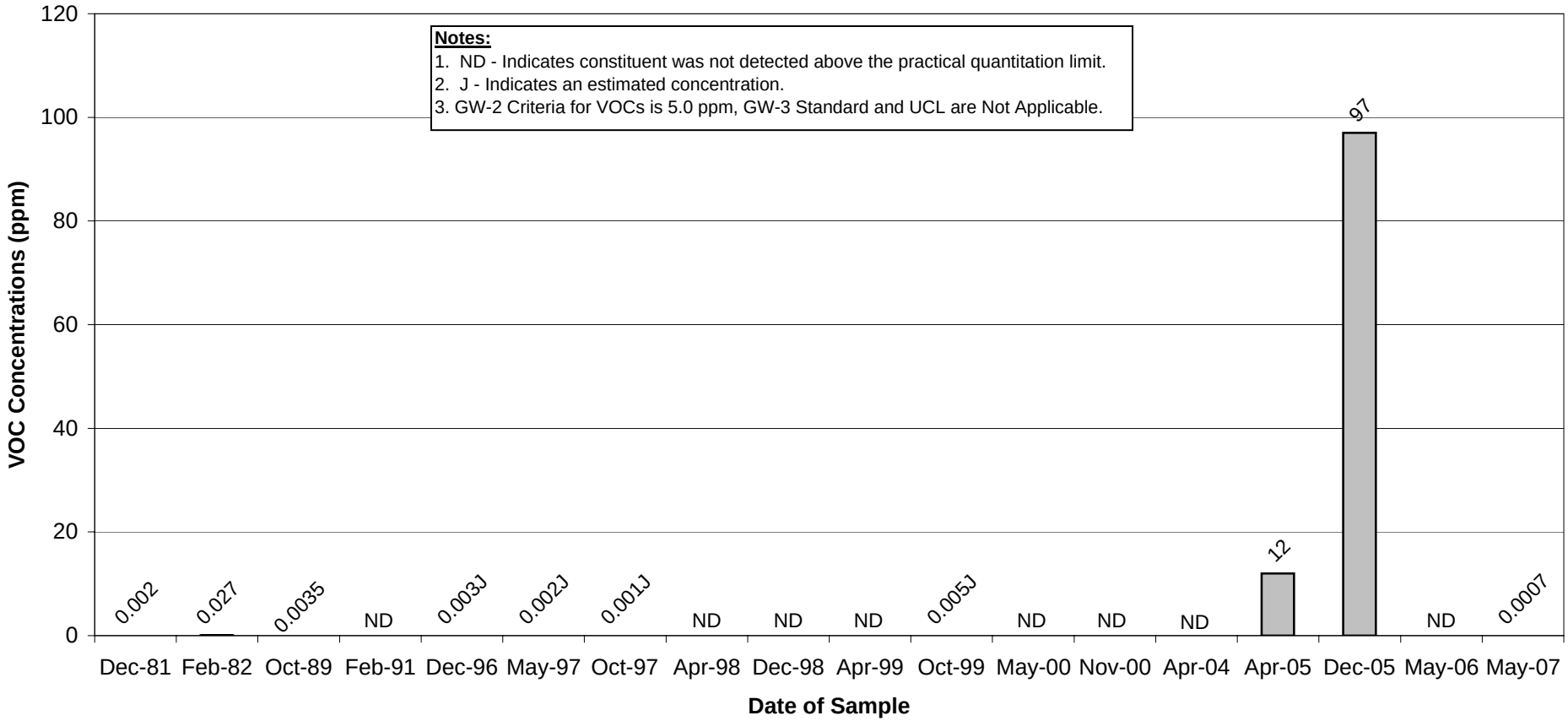
Well 111B/111B-R Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

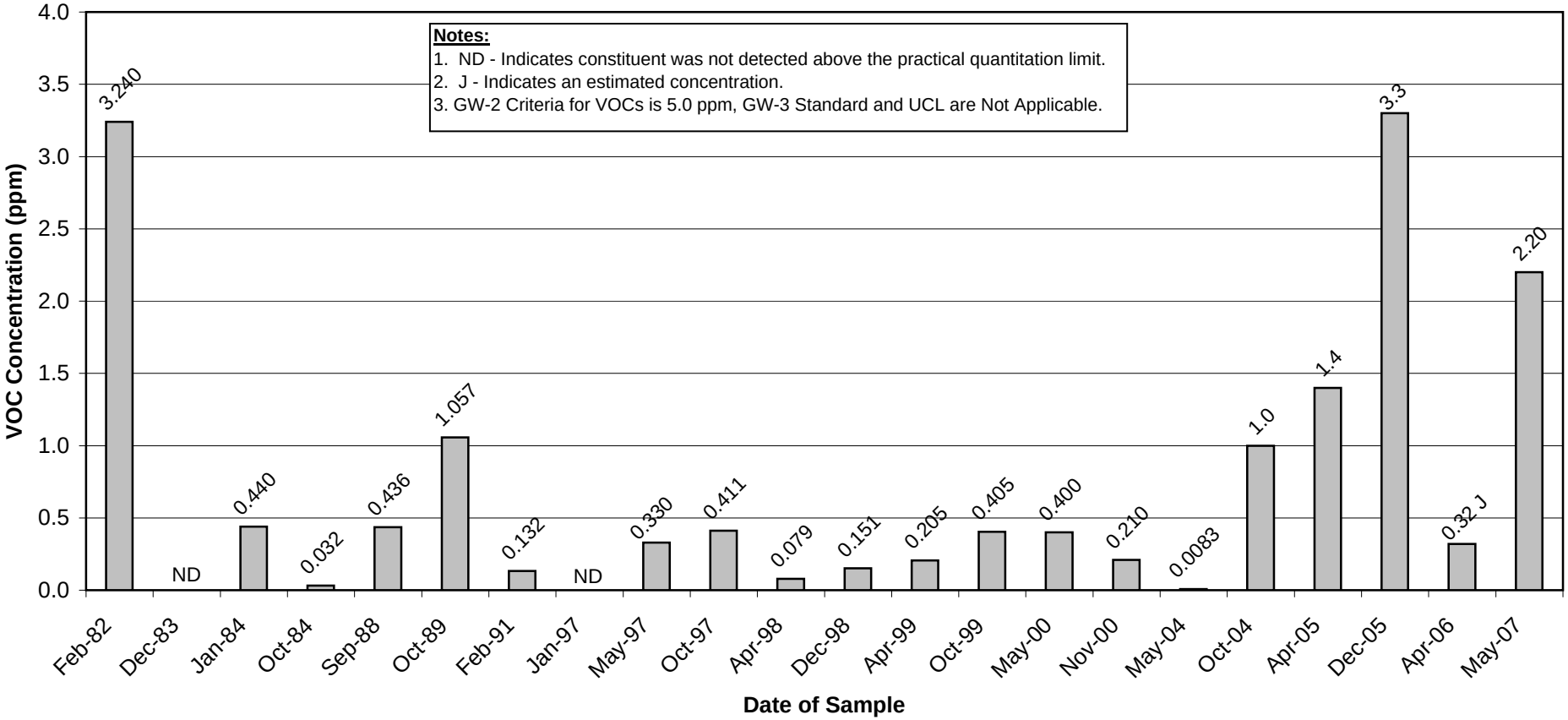
Well 114A Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

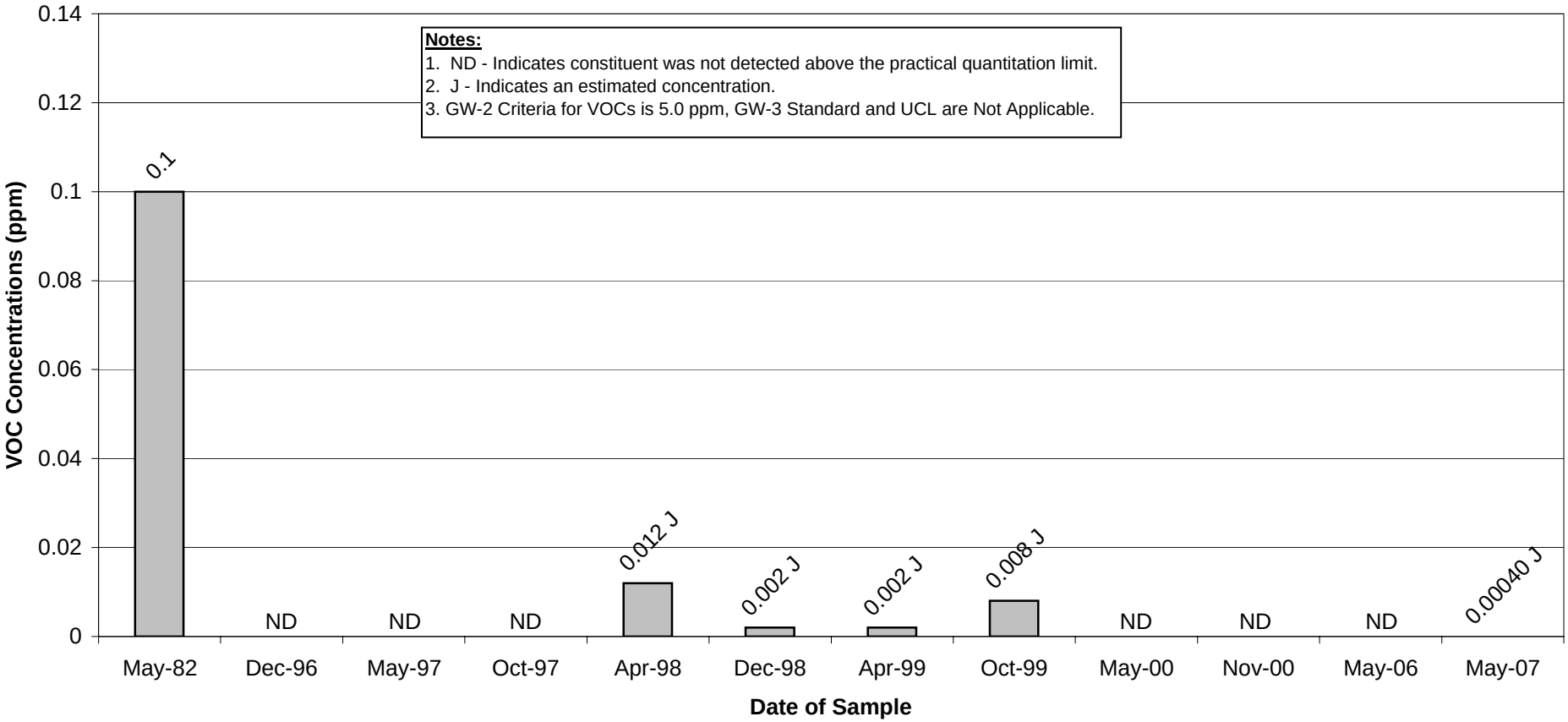
Well 114B/114B-R Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

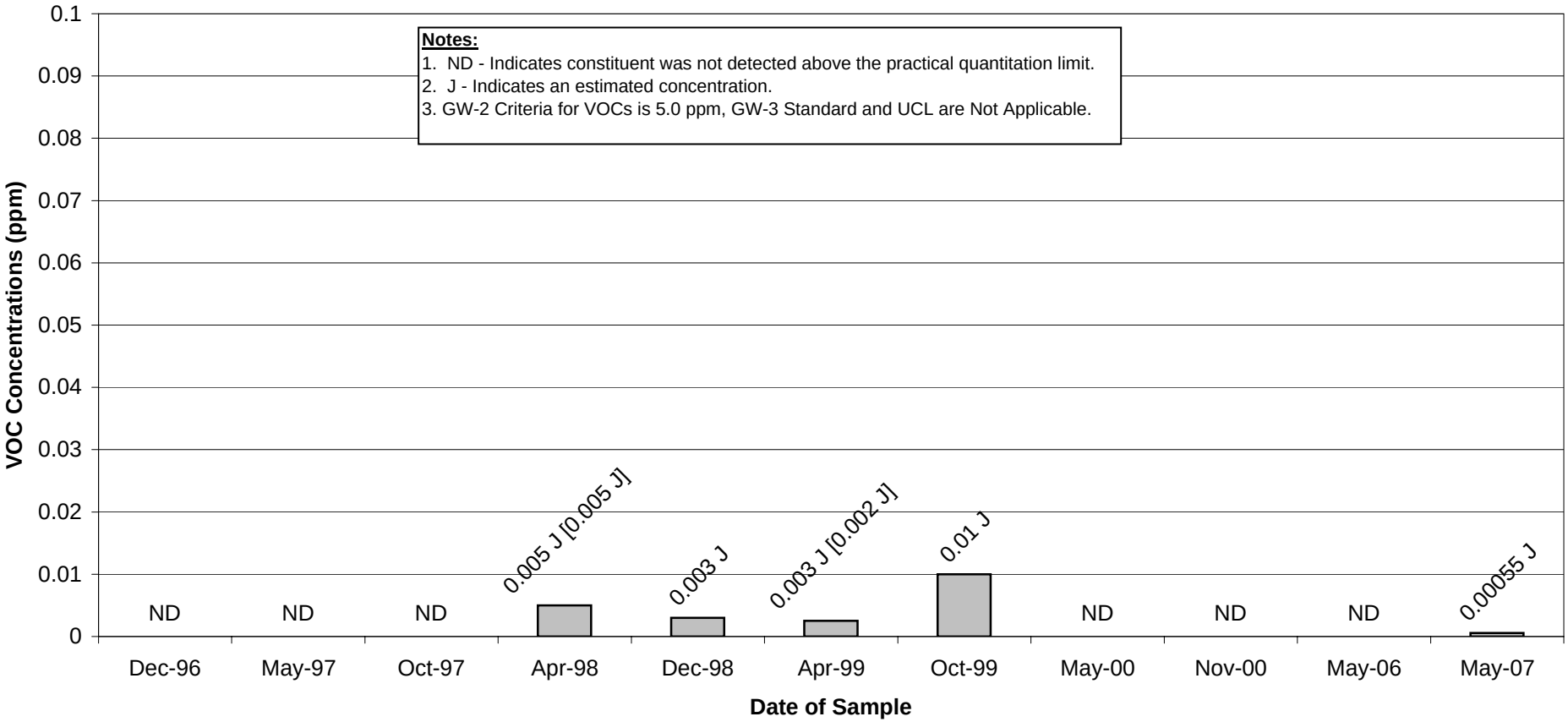
Well 115A Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

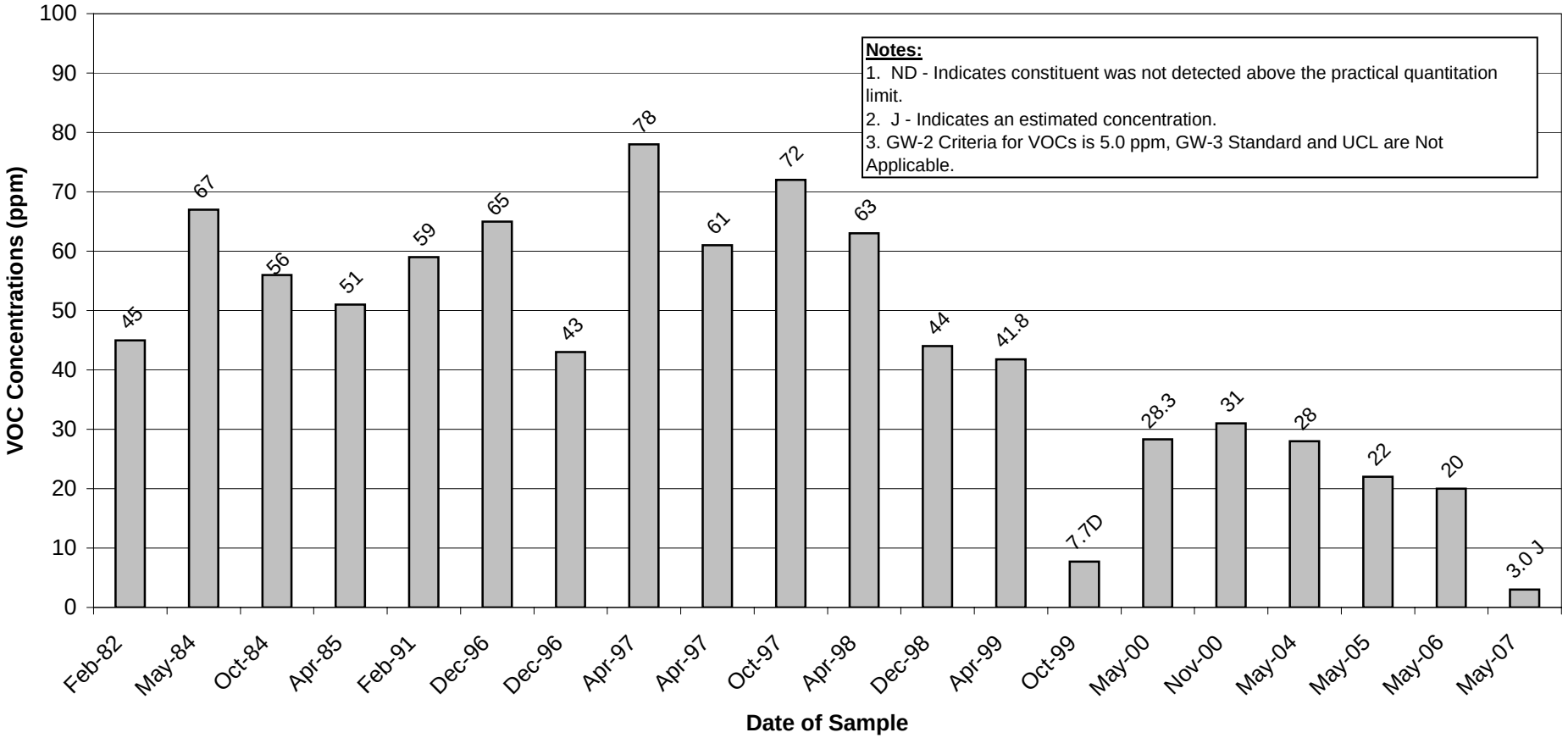
Well 115B Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

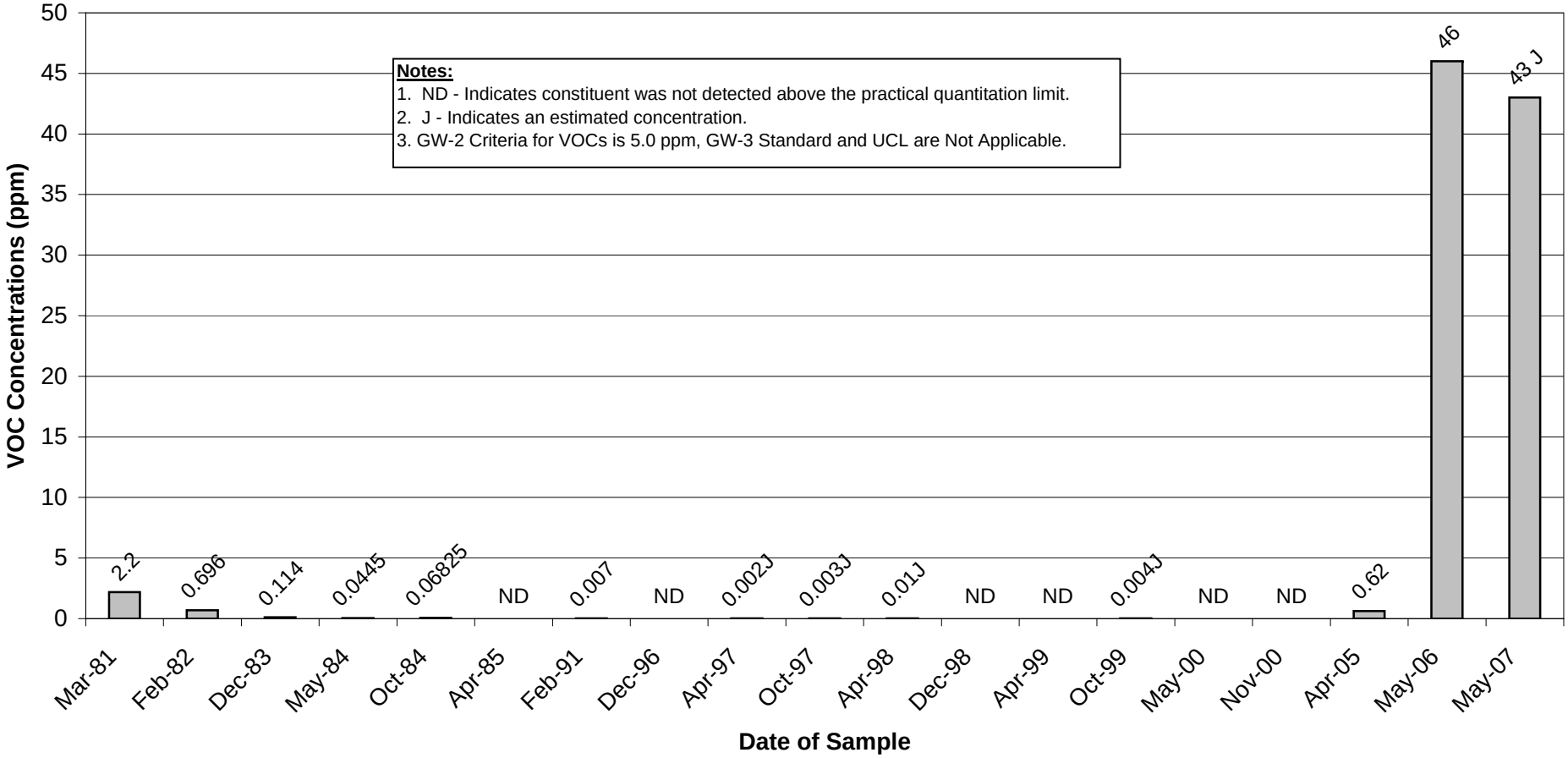
Well 89A Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

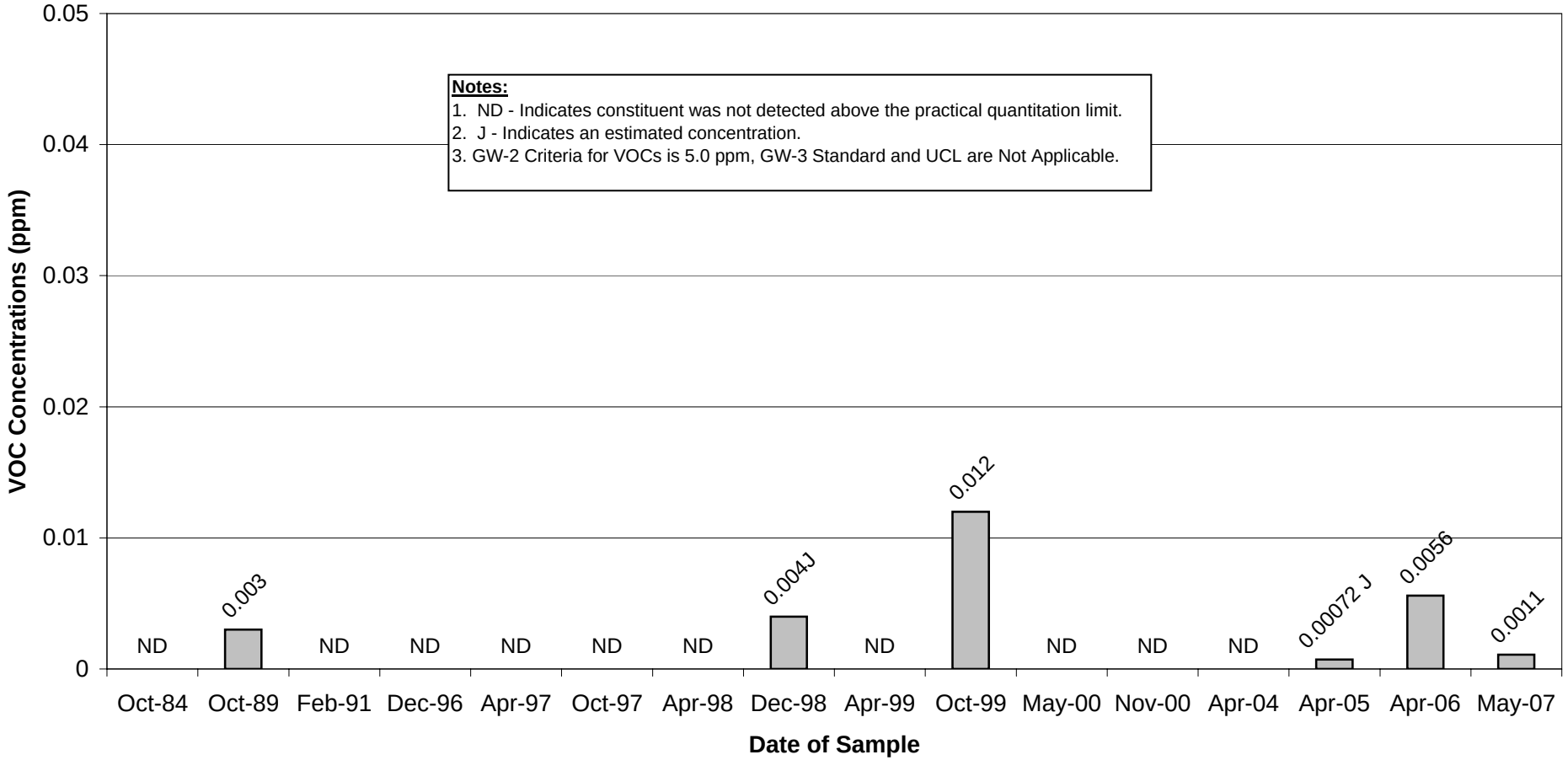
Well 89D/89D-R Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

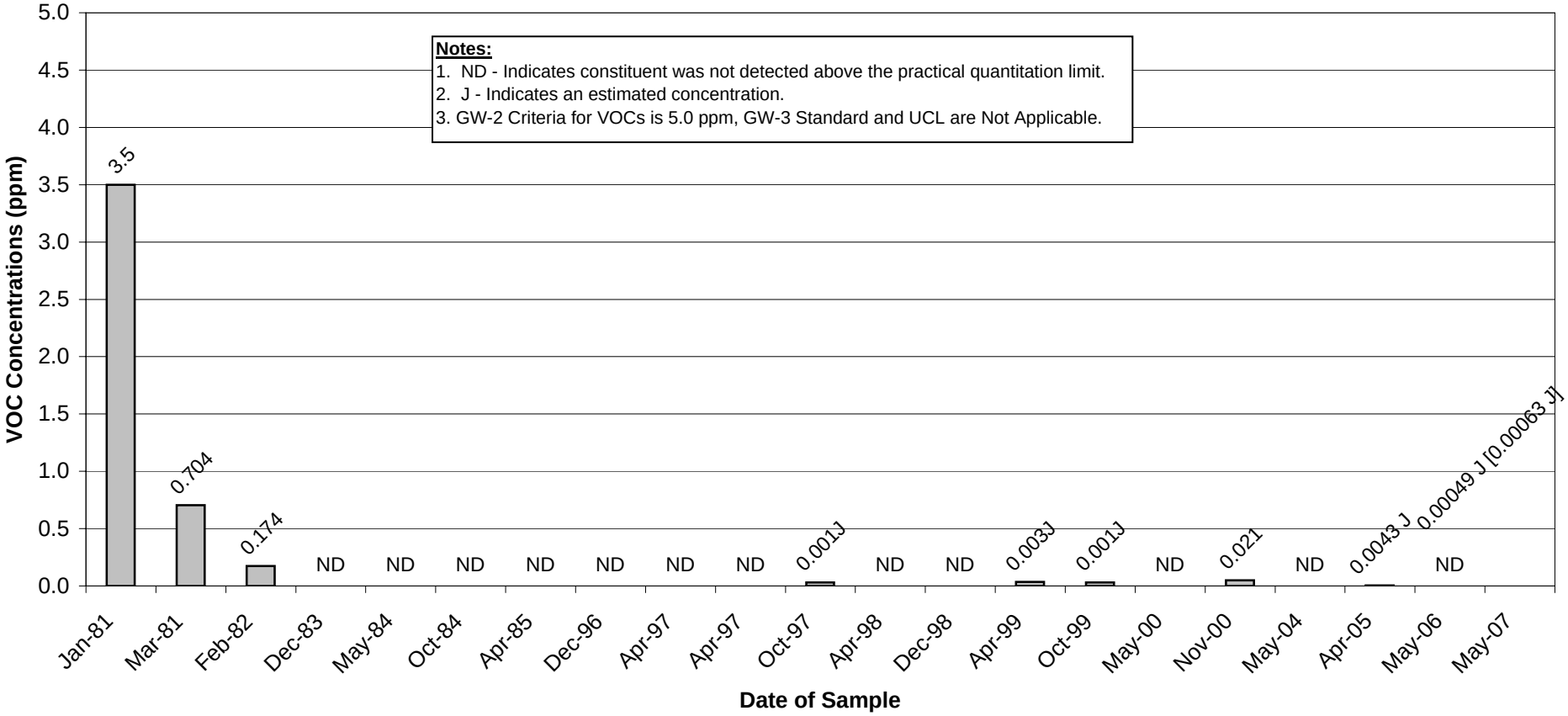
Well 90A Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

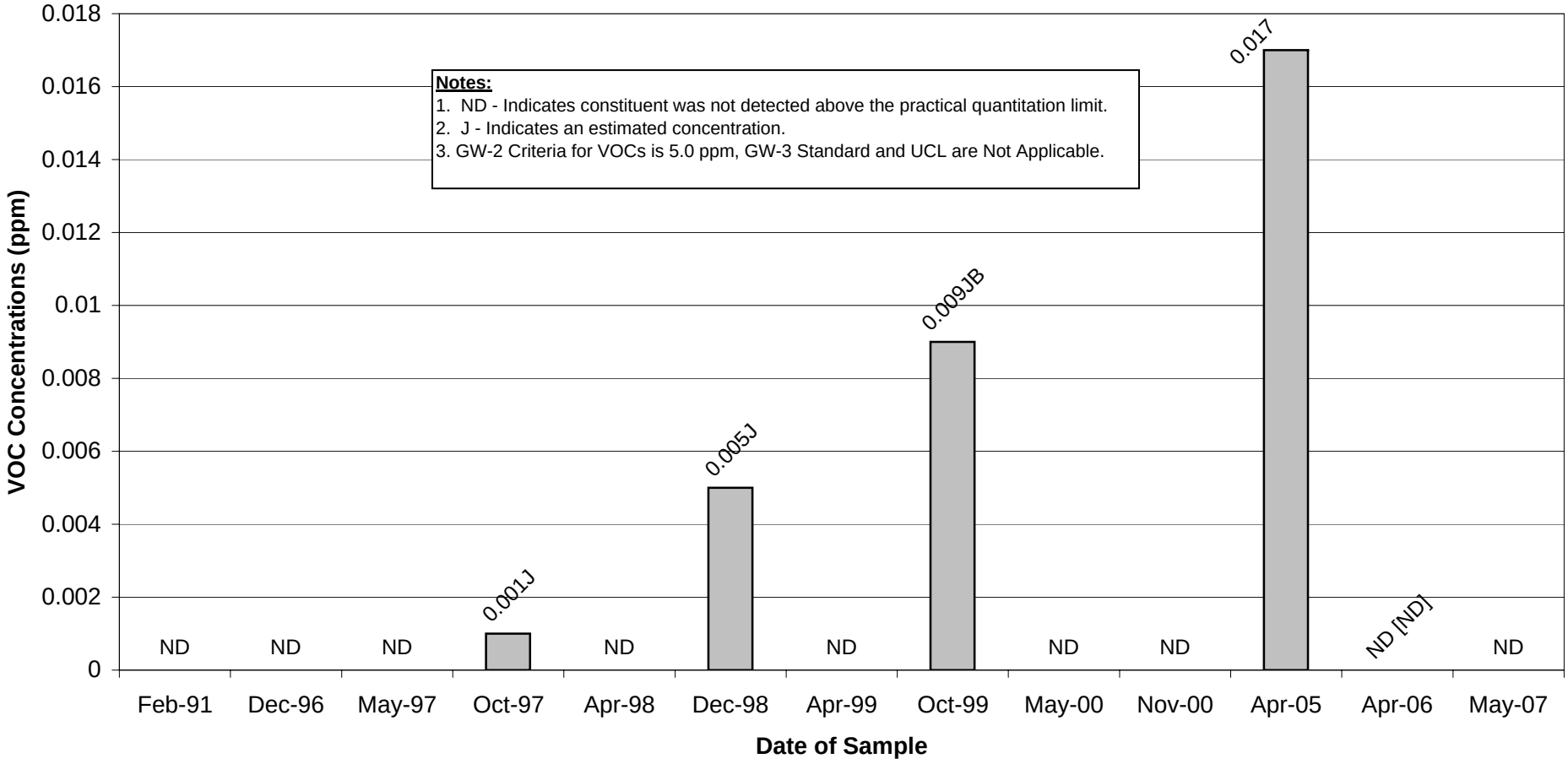
Well 95A Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Well 111A/111A-R Historical Total VOC Concentrations



ARCADIS BBL

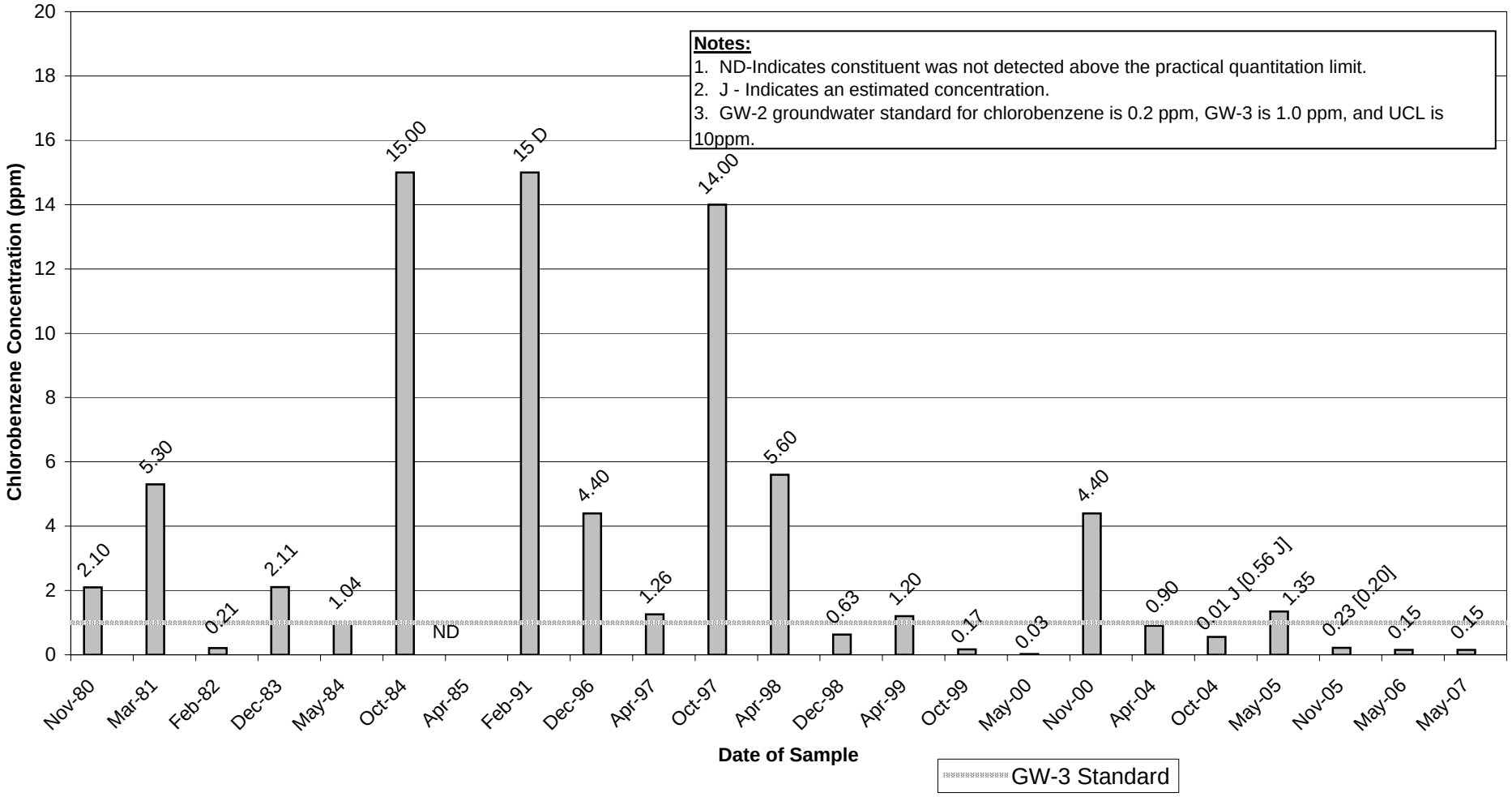
Historical Groundwater Data

Total Chlorobenzene
Concentrations – Select Wells
Sampled in Spring 2007

Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield Massachusetts

Well 89B Historical Chlorobenzene Concentrations



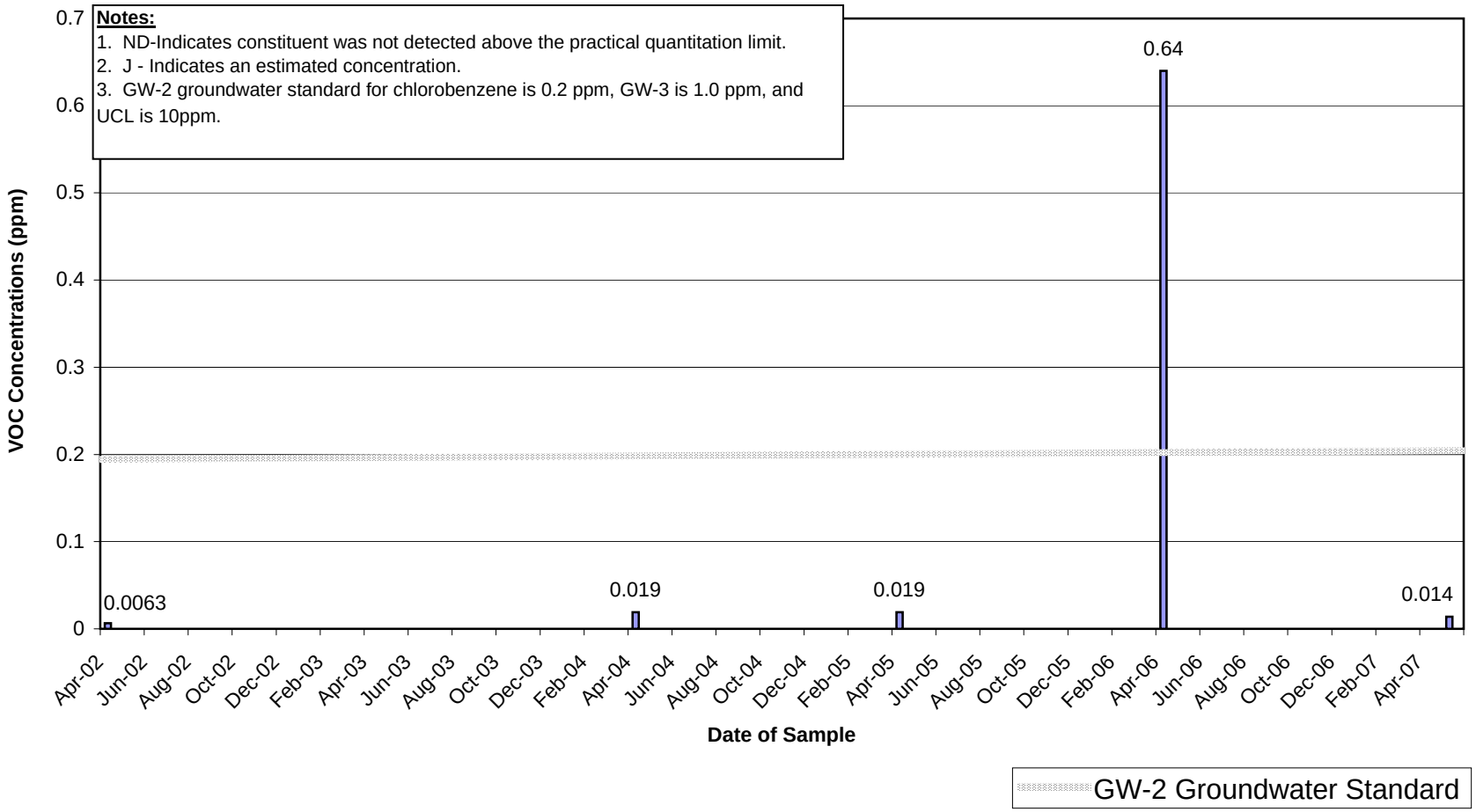
G:\GE\GE_Pittsfield_CD_GMA_3\Reports and Presentations\Spring 2007 Monitoring Report\
410711324AppE_Chbenz.xls - 89B

9/4/2007

Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield Massachusetts

Well 39D/D-R Historical Chlorobenzene Concentrations



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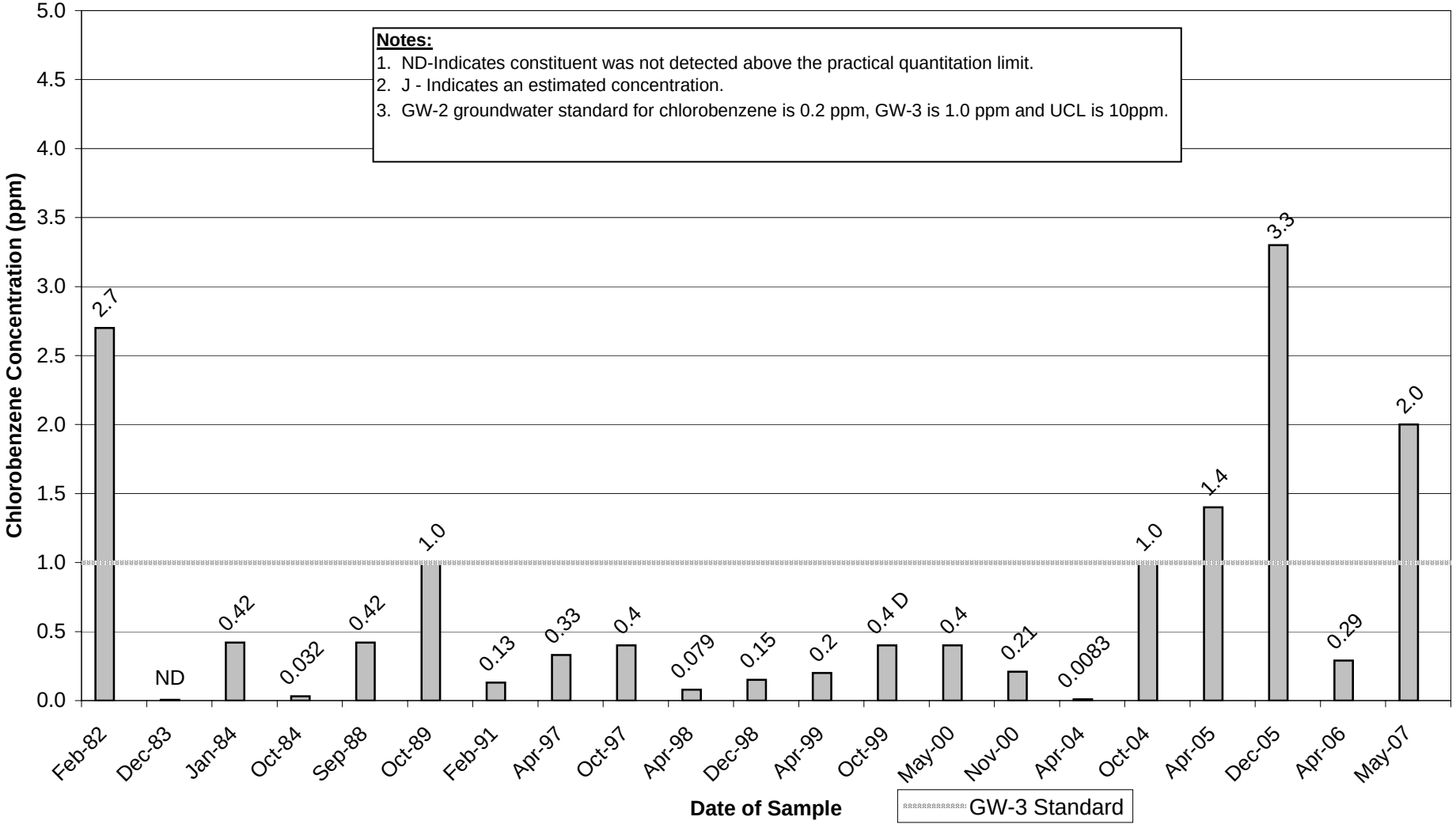
410711324AppE_Chbenz.xls - 39D and D-R

9/4/2007

Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield Massachusetts

Well 114B/114B-R Historical Chlorobenzene Concentrations



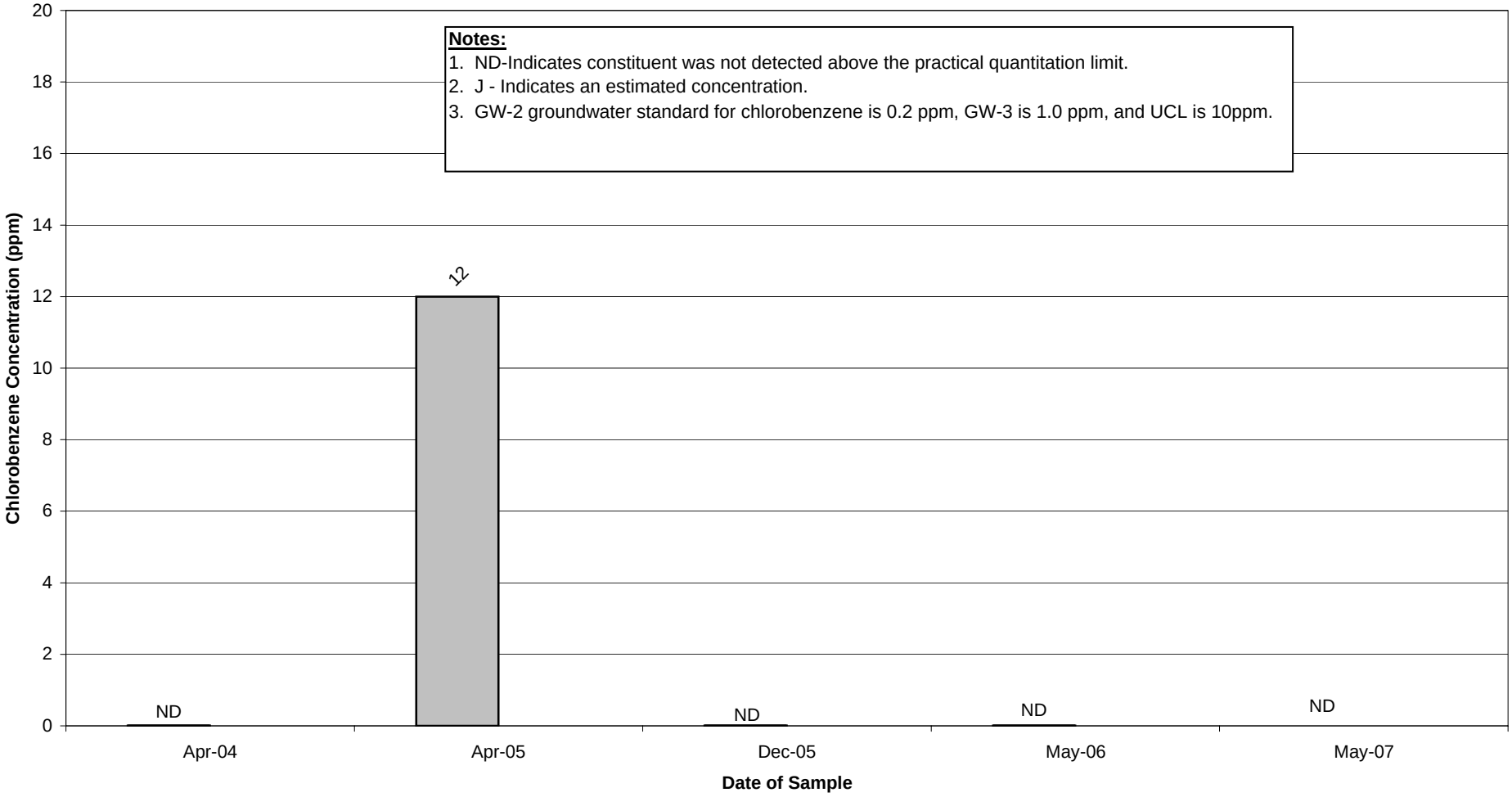
G:\GE\GE_Pittsfield_CD_GMA_3\Reports and Presentations\Spring 2007 Monitoring Report\
410711324AppE_Chbenz.xls - 114B and 114B-R

9/4/2007

Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield Massachusetts

Well 114A Historical Chlorobenzene Concentrations



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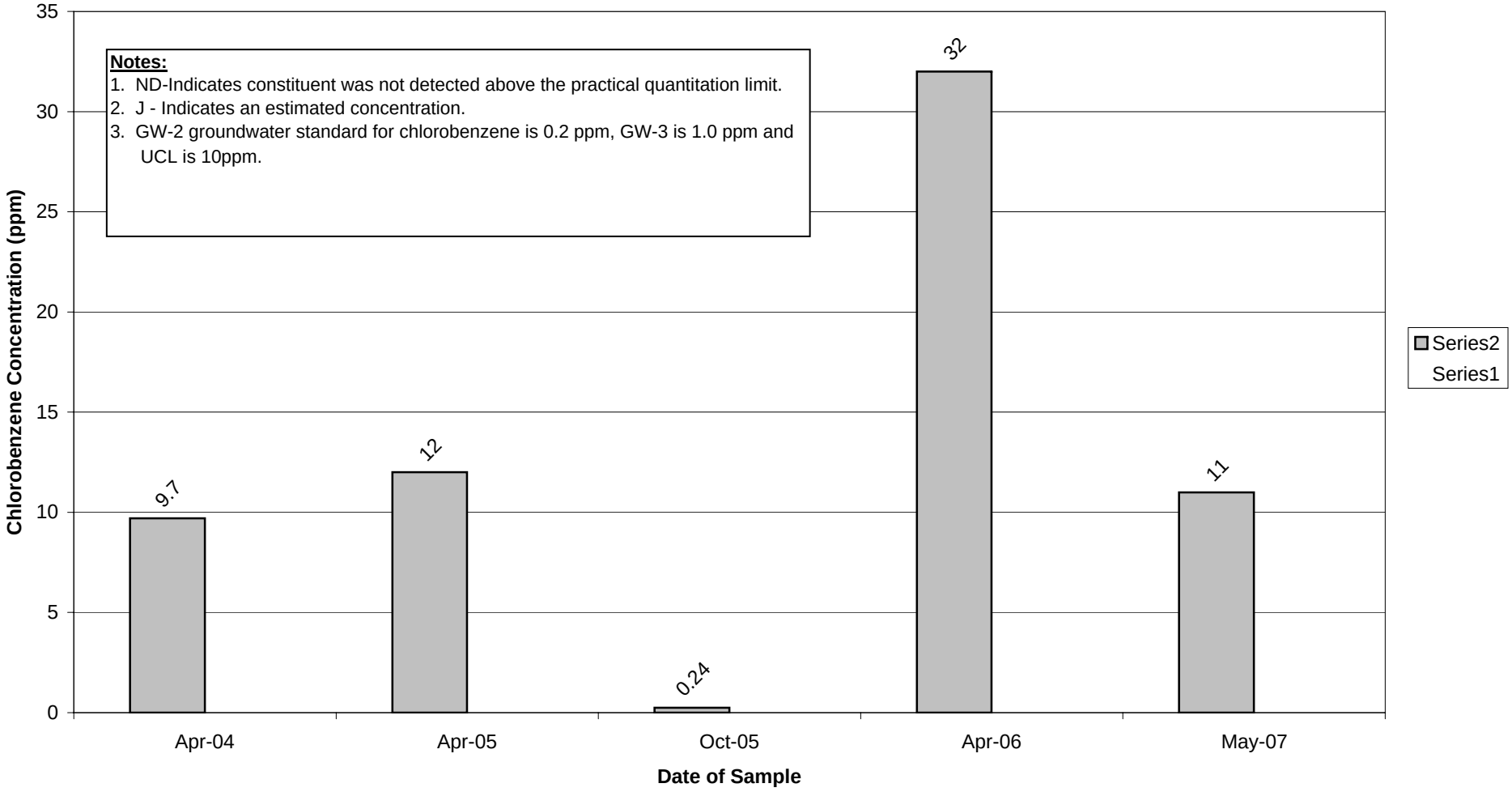
410711324AppE_Chbenz.xls - 114A

9/4/2007

Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield Massachusetts

Well 39B-R Historical Chlorobenzene Concentrations



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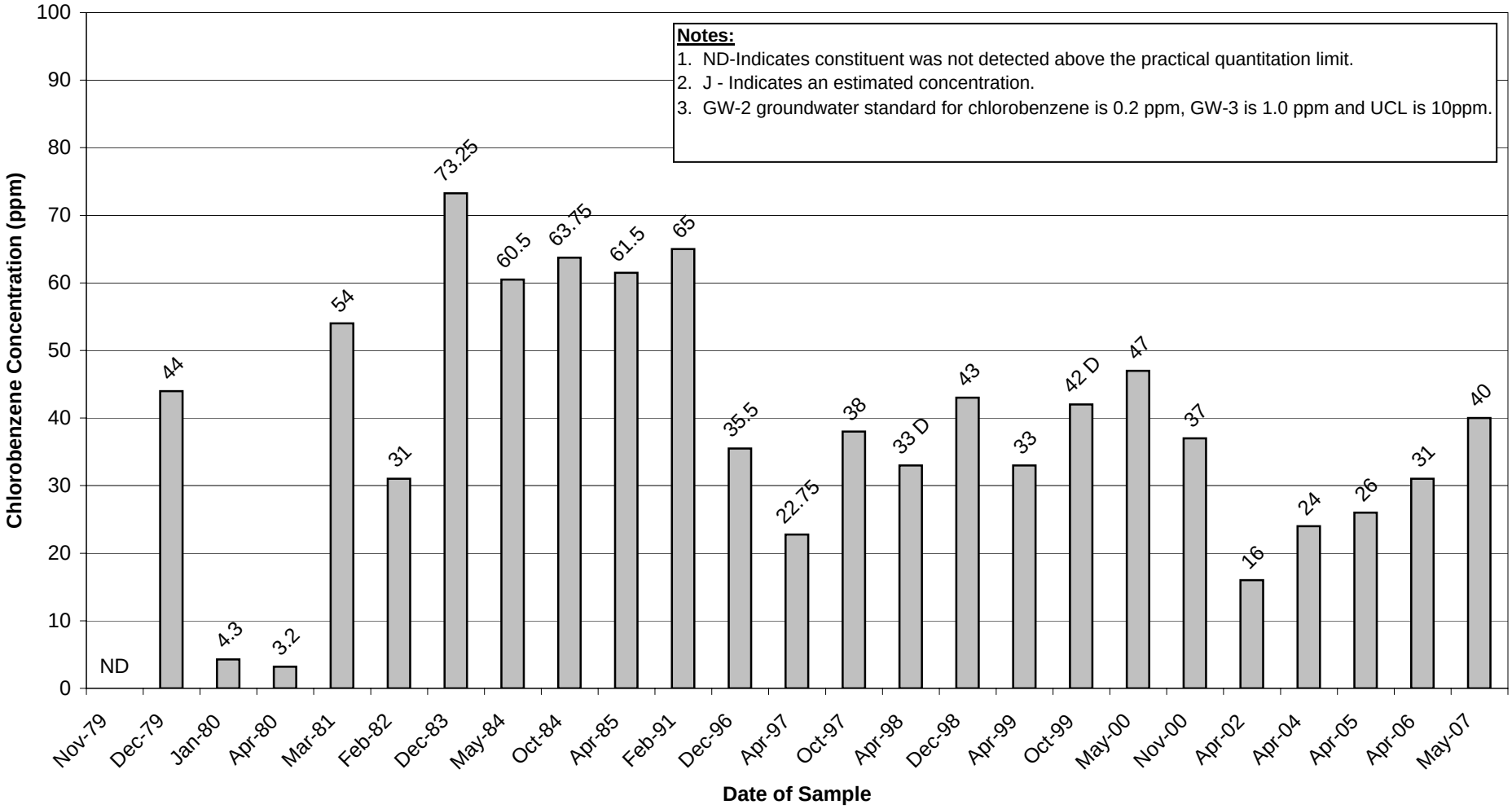
410711324AppE_Chbenz.xls - 39B-R

9/4/2007

Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield Massachusetts

Well 16A Historical Chlorobenzene Concentrations



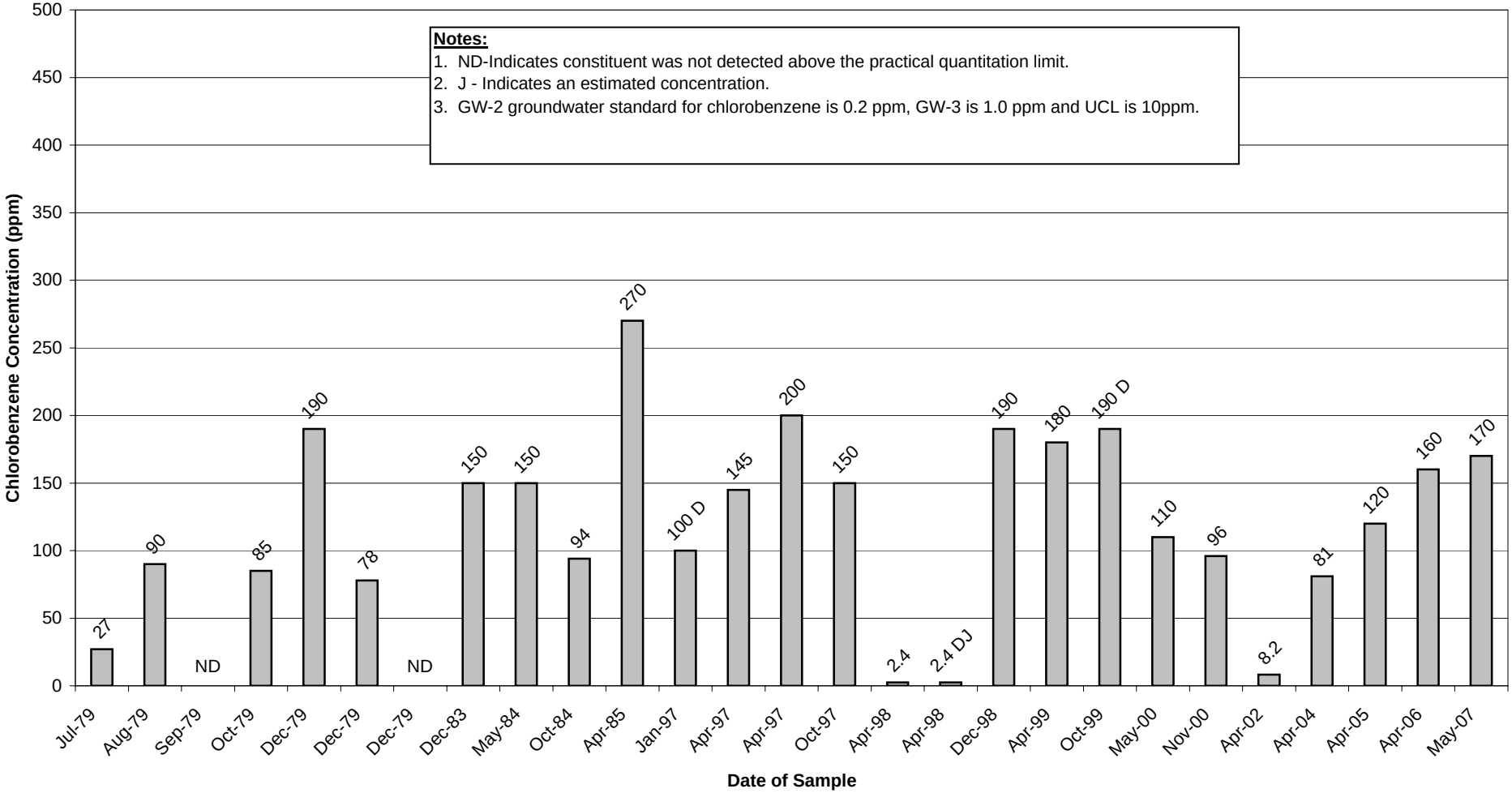
G:\GE\GE_Pittsfield_CD_GMA_3\Reports and Presentations\Spring 2007 Monitoring Report\
[File] - 16A

9/4/2007

Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield Massachusetts

Well 2A Historical Chlorobenzene Concentrations



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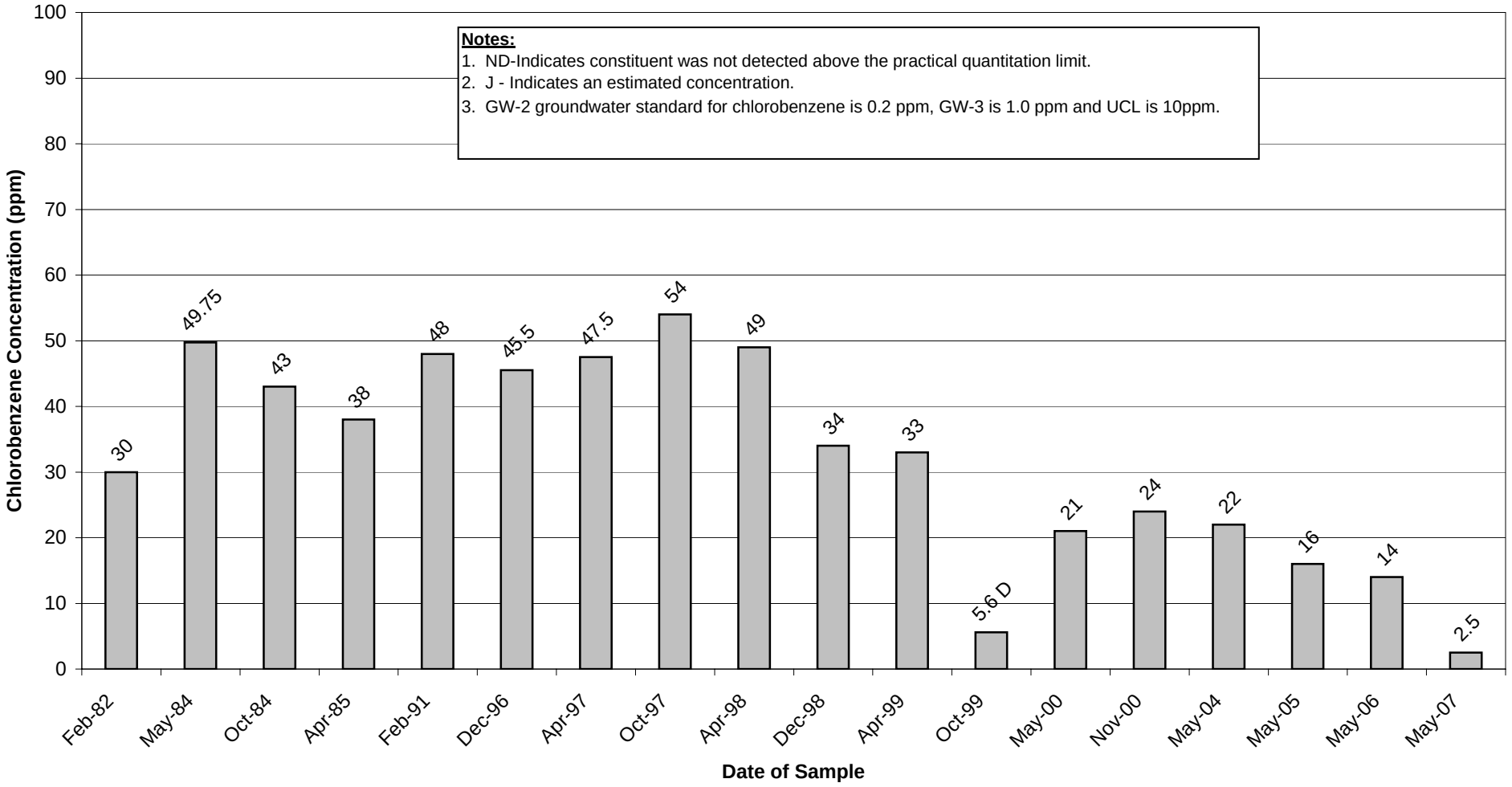
410711324AppE_Chbenz.xls - 2A

9/4/2007

Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield Massachusetts

Well 89A Historical Chlorobenzene Concentrations



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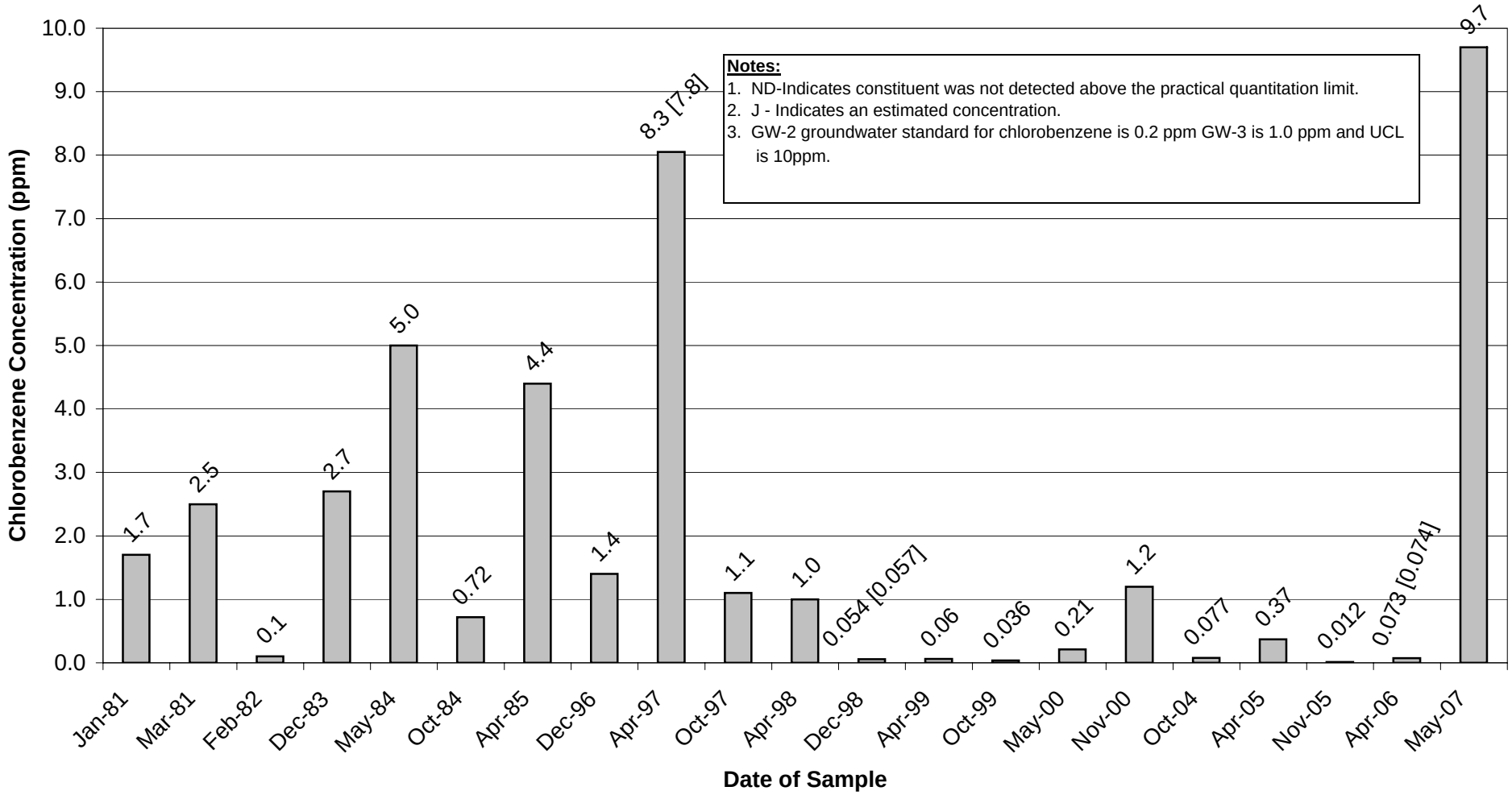
410711324AppE_Chbenz.xls - 89A

9/4/2007

Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield Massachusetts

Well 95B/95B-R Historical Chlorobenzene Concentrations



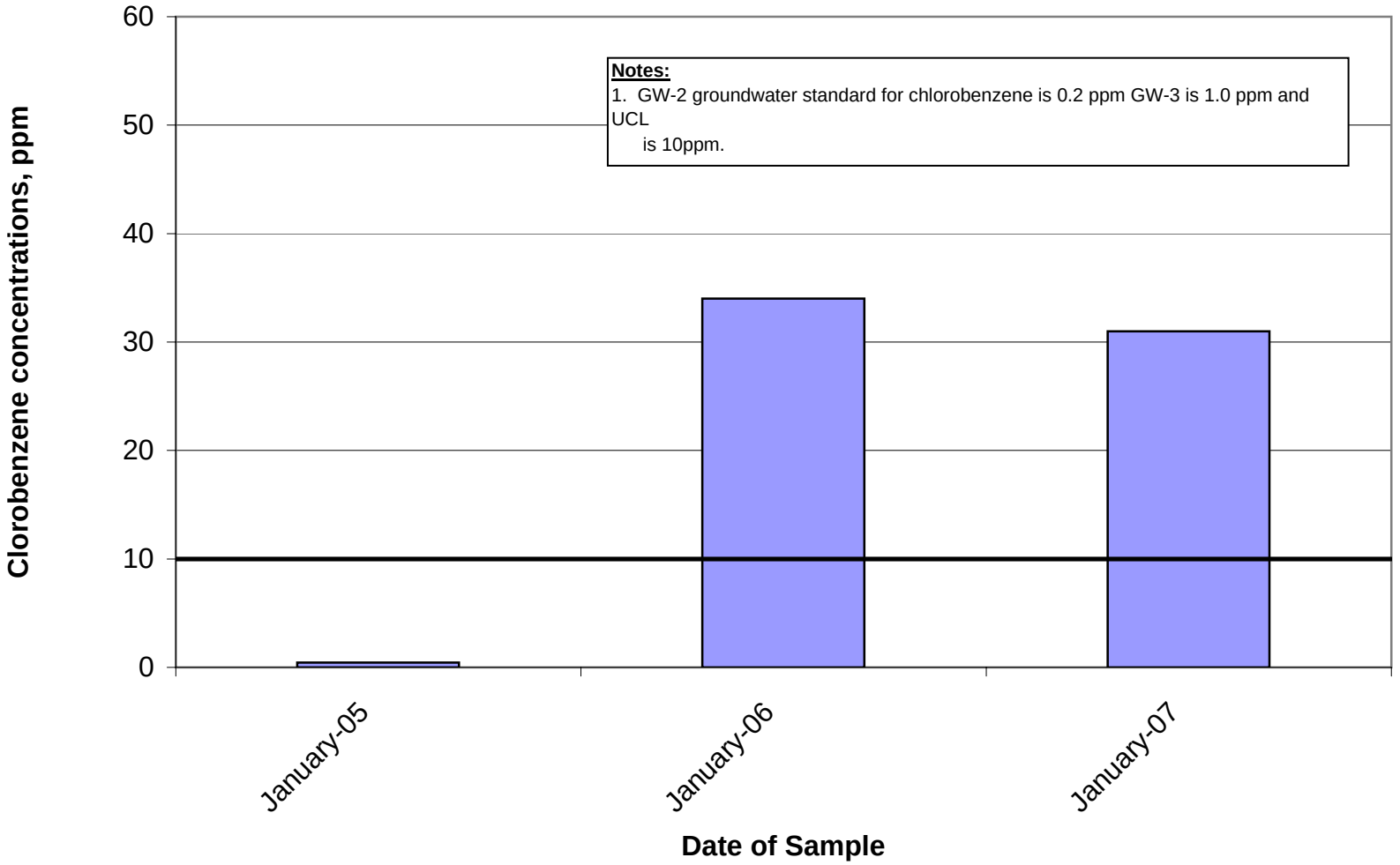
G:\GE\GE_Pittsfield_CD_GMA_3\Reports and Presentations\Spring 2007 Monitoring Report\
410711324AppE_Chbenz.xls - 95B and 95B-R

9/4/2007

Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield Massachusetts

Well 89D-R Historical Chlorobenzene Concentrations



ARCADIS BBL

Appendix F

Data Validation Report

Appendix F
Groundwater Sampling Data Validation Report
Groundwater Management Area 3 - Spring 2007

General Electric Company
Pittsfield, Massachusetts

1.0 General

This attachment summarizes the data validation review performed on behalf of the General Electric Company (GE) for groundwater samples collected in May 2007 as part of sampling activities conducted at the Plant Site 2 Groundwater Management Area (also referred to as GMA 3), located at the GE-Pittsfield/Housatonic River Site in Pittsfield, Massachusetts. The sampling was conducted by ARCADIS of New York (ARCADIS BBL), and the samples were analyzed for various other 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 Paradigm Analytical Labs, Inc.) of Wilmington, North Carolina. Data review was performed for 27 volatile organic compound (VOC) samples, eight semi-volatile organic compound (SVOC) samples, 25 metal samples, and 25 miscellaneous analyses.

2.0 Data Evaluation Procedures

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

- *Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts,* ARCADIS BBL (submitted by GE on March 30, 2007 and approved by EPA on June 13, 2007)*;*

- *Region I Tiered Organic and Inorganic Data Validation Guidelines*, EPA Region I (July 1, 1993);

- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, EPA Region I (Draft, December 1996); and

- *National Functional Guidelines for Dioxin/Furan Data Validation,* EPA (Draft, January 1996).

The data were validated to either a Tier I or Tier II level, as described below. Any deviations from the applicable quality control criteria utilized during the data review process are identified below. A tabulated summary of the Tier I/Tier II data review is presented in Table F-1. Each sample subject to evaluation is listed in Table F-1 to document that data review was performed. Samples that required data qualification are listed separately.

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. Non-detect sample results are presented as ND(PQL) within this report for consistency with documents previously prepared for investigations conducted at the GE-Pittsfield/Housatonic River Site.

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 for consistency with documents previously prepared for investigations conducted at the GE-Pittsfield/Housatonic River Site.

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

Section 7.5 of the FSP/QAPP states that 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* (EPA guidelines). All groundwater sampling analytical data collected in May 2007 were subjected to Tier I review. The Tier I review consisted of a completeness evidence audit, as outlined in the *EPA Region I CSF Completeness Evidence Audit Program* (EPA Region I, July 31, 1991), to ensure that laboratory data and documentation were present. 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 the EPA Region I Tier I data completeness requirements.

The Tier II data review consisted of a review of 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. Additionally, field duplicates were examined for relative percent difference (RPD) compliance with the criteria specified in the FSP/QAPP.

A tabulated summary of the samples subject to Tier I and Tier II data review 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	
VOCs	0	0	0	22	2	3	27
SVOCs	0	0	0	7	1	0	8
Metals	0	0	0	22	2	1	25
Miscellaneous	0	0	0	22	2	1	25
Total	**0**	**0**	**0**	**73**	**7**	**5**	**85**

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 EPA 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 in Section 4 below.

4.0 Data Review

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	Compound	Number of Affected Samples	Qualification
VOCs	1,2-Dibromo-3-chloropropane	27	J
	1,4-Dioxane	27	J
	2-Butanone	7	J
	2-Chloroethylvinylether	27	J
	Acetone	27	J
	Acetonitrile	27	J
	Acrolein	27	J
	Acrylonitrile	27	J
	Ethyl Methacrylate	1	J
	Isobutanol	27	J
	Methacrylonitrile	1	J
	Methyl Methacrylate	1	J
	Propionitrile	26	J

Several of the organic compounds (including the compounds presented in the above tables detailing RRF deviations) exhibit instrument response factors (RFs) below the EPA 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 EPA Region I minimum value of 0.05 in an effort to demonstrate acceptable response. EPA 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 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	Compound	Number of Affected Samples	Qualification
VOCs	1,2-Dibromo-3-chloropropane	5	J
	1,2-Dichloroethane	6	J
	1,4-Dioxane	6	J
	Acetone	11	J
	Bromomethane	3	J
	Chloroethane	5	J
	4-Chlorophenol	8	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 outside the 80% to 120% control limits, the affected samples with detected results at or near the PQL concentration (i.e., 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	Analyte	Number of Affected Samples	Qualification
Inorganics	Iron	16	J

Matrix spike/Matrix spike duplicate (MS/MSD) sample analysis recovery criteria for organic analysis require that the MS/MSD recoveries be within the laboratory-generated QC acceptance limits specified on the MS reporting form. Organic sample results associated with MS/MSD recoveries less than the specified control limit, but greater than 10%, were qualified as estimated (J). The compound that did not meet MS/MSD recovery criteria and the number of samples qualified due to those deviations are presented in the following table.

Compound Qualified Due to MS/MSD Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	Chlorobenzene	1	J

Analysis holding timing criterion for nitrite require that water samples are analyzed within 48 hours. The analyte that exceeded analysis 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	Compound	Number of Affected Samples	Qualification
Miscellaneous	Nitrite	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.

Compound Qualified Due to Field Duplicate Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	Chlorobenzene	2	J

5.0 Overall Data Usability

This section summarizes the analytical data in terms of its completeness and usability. 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/II data validation reviews. The percent usability calculation also includes quality control samples (i.e., field/equipment blanks, trip blanks, and field duplicates) to aid in the evaluation of data usability. Data usability is summarized in the following table.

Data Usability

Parameter	Percent Usability	Rejected Data
VOCs	100	None
SVOCs	100	None
Metals	100	None
Miscellaneous	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 laboratory duplicates, field duplicates, LCS/LCSD, MS/MSD, and ICP serial dilution analyses. For this analytical program, 0.12% of the data required qualification due to field duplicate RPD deviations. None of the data required qualification due to MS/MSD, LCS/LCSD, or laboratory duplicate RPD deviations or ICP serial dilution 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, LCS/LCSDs, MS/MSD samples, CRDL samples, and surrogate compound recoveries. For this analytical program, 19.1% of the data required qualification due to instrument calibration deviations, 1.0% of the data required qualification due to CRDL recovery deviations, and 0.06% of the data required qualification due to MS/MSD recovery deviations. None of the data required qualification due to internal standard, LCS/LCSD, or surrogate compound 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 the EPA-approved work plan, and by following the procedures for sample collection/analyses that were described in the FSP/QAPP. Additionally, the analytical program used procedures consistent with EPA-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 data set, none of the data required qualification due to holding time deviations.

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. Specifically, all the groundwater samples collected in May 2007 were analyzed by EPA method 8260 for VOCs, 8270 for SVOCs, 6000 for metals, and various methods for the miscellaneous parameters.

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. This analytical data set had an overall usability of 100%.

Table F-1
Analytical Data Validation Summary

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
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											
G135-406	111A-R (Filtered)	5/7/2007	Water	Tier II	No						
G135-406	111B-R (Filtered)	5/8/2007	Water	Tier II	No						
G135-406	16A (Filtered)	5/7/2007	Water	Tier II	No						
G135-406	16B-R (Filtered)	5/8/2007	Water	Tier II	No						
G135-406	16C-R (Filtered)	5/7/2007	Water	Tier II	No						
G135-406	39B-R (Filtered)	5/7/2007	Water	Tier II	No						
G135-406	90A (Filtered)	5/8/2007	Water	Tier II	No						
G135-406	90B (Filtered)	5/8/2007	Water	Tier II	No						
G135-406	DUP#1 (Filtered)	5/8/2007	Water	Tier II	No						Parent Sample 16B-R (Filtered)
G135-409	114A (Filtered)	5/10/2007	Water	Tier II	Yes	Iron	CRDL Standard %R	146.0%	80% to 120%	0.0434 J	
G135-409	114B-R (Filtered)	5/10/2007	Water	Tier II	Yes	Iron	CRDL Standard %R	146.0%	80% to 120%	ND(0.100) J	
G135-409	43A (Filtered)	5/9/2007	Water	Tier II	Yes	Iron	CRDL Standard %R	121.0%	80% to 120%	ND(0.100) J	
G135-409	43B (Filtered)	5/9/2007	Water	Tier II	Yes	Iron	CRDL Standard %R	121.0%	80% to 120%	ND(0.100) J	
G135-409	89A (Filtered)	5/9/2007	Water	Tier II	Yes	Iron	CRDL Standard %R	121.0%	80% to 120%	ND(0.100) J	
G135-409	89B (Filtered)	5/9/2007	Water	Tier II	Yes	Iron	CRDL Standard %R	121.0%	80% to 120%	ND(0.100) J	
G135-409	89D-R (Filtered)	5/9/2007	Water	Tier II	Yes	Iron	CRDL Standard %R	121.0%	80% to 120%	ND(0.100) J	
G135-409	95A (Filtered)	5/10/2007	Water	Tier II	Yes	Iron	CRDL Standard %R	121.0%	80% to 120%	ND(0.100) J	
G135-409	95B-R (Filtered)	5/10/2007	Water	Tier II	Yes	Iron	CRDL Standard %R	146.0%	80% to 120%	ND(0.100) J	
G135-409	DUP#2 (Filtered)	5/10/2007	Water	Tier II	Yes	Iron	CRDL Standard %R	146.0%	80% to 120%	ND(0.100) J	Parent Sample 95A (Filtered)
G135-413	115A (Filtered)	5/14/2007	Water	Tier II	Yes	Iron	CRDL Standard %R	126.00%	80% to 120%	ND(0.100) J	
G135-413	115B (Filtered)	5/14/2007	Water	Tier II	Yes	Iron	CRDL Standard %R	126.00%	80% to 120%	ND(0.100) J	
G135-413	2A (Filtered)	5/14/2007	Water	Tier II	Yes	Iron	CRDL Standard %R	126.00%	80% to 120%	ND(0.100) J	
G135-413	39D-R (Filtered)	5/14/2007	Water	Tier II	Yes	Iron	CRDL Standard %R	126.00%	80% to 120%	ND(0.100) J	
G135-413	39E (Filtered)	5/14/2007	Water	Tier II	Yes	Iron	CRDL Standard %R	126.00%	80% to 120%	0.0364 J	
G135-413	GMA3-RB-1 (Filtered)	5/14/2007	Water	Tier II	Yes	Iron	CRDL Standard %R	126.00%	80% to 120%	ND(0.100) J	
VOCs											
G135-406	111A-R	5/7/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.023	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.026	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.047	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.003	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.024	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Bromomethane	CCAL %D	36.6%	<25%	ND(0.0010) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
G135-406	111B-R	5/8/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.023	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						1,4-Dioxane	CCAL %D	132.0%	<25%	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.026	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.047	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.003	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.024	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Chlorobenzene	MS/MSD %R	70.6%, 65.4%	77.2% to 118%	0.0020 J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
G135-406	16A	5/7/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.023	>0.05	ND(4.0) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(80) J	
						2-Chloroethylvinylether	ICAL RRF	0.026	>0.05	ND(10) J	
						Acetone	ICAL RRF	0.047	>0.05	ND(4.0) J	
						Acetonitrile	ICAL RRF	0.003	>0.05	ND(16) J	
						Acrolein	ICAL RRF	0.024	>0.05	ND(20) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(20) J	
						Bromomethane	CCAL %D	36.6%	<25%	ND(0.80) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(40) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(16) J	
G135-406	16B-R	5/8/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.023	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						1,4-Dioxane	CCAL %D	132.0%	<25%	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.026	>0.05	ND(0.013) J	
						Chlorobenzene	Field Duplicate RPD (Water)	73.1%	<30%	0.0051 J	
						Acetone	ICAL RRF	0.047	>0.05	0.0072 J	
						Acetonitrile	ICAL RRF	0.003	>0.05	ND(0.020) J	

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Groundwater Management Area 3
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Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
G135-406	16B-R	5/8/2007	Water	Tier II	Yes	Acrolein	ICAL RRF	0.024	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
G135-406	16C-R	5/7/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.023	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						1,4-Dioxane	CCAL %D	132.0%	<25%	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.026	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.047	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.003	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.024	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
G135-406	39B-R	5/7/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.023	>0.05	ND(2.0) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(40) J	
						2-Chloroethylvinylether	ICAL RRF	0.026	>0.05	ND(5.0) J	
						Acetone	ICAL RRF	0.047	>0.05	ND(2.0) J	
						Acetonitrile	ICAL RRF	0.003	>0.05	ND(8.0) J	
						Acrolein	ICAL RRF	0.024	>0.05	ND(10) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(10) J	
						Bromomethane	CCAL %D	31.8%	<25%	ND(0.40) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(20) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(8.0) J	
G135-406	90A	5/8/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.023	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						1,4-Dioxane	CCAL %D	132.0%	<25%	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.026	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.047	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.003	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.024	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
G135-406	90B	5/8/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.023	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						1,4-Dioxane	CCAL %D	132.0%	<25%	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.026	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.047	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.003	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.024	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
G135-406	DUP#1	5/8/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.023	>0.05	ND(0.0050) J	Parent Sample 16B-R
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						1,4-Dioxane	CCAL %D	132.0%	<25%	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.026	>0.05	ND(0.013) J	
						Chlorobenzene	Field Duplicate RPD (Water)	73.1%	<30%	0.0024 J	
						Acetone	ICAL RRF	0.047	>0.05	0.0035 J	
						Acetonitrile	ICAL RRF	0.003	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.024	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
G135-409	114A	5/10/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.022	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.023	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.048	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.005	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.02	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	

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Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
G135-409	114B-R	5/10/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.030	>0.05	ND(0.40) J	
						1,2-Dibromo-3-chloropropane	CCAL %D	25.3%	<25%	ND(0.40) J	
						1,4-Dioxane	ICAL RRF	0.000	>0.05	ND(8.0) J	
						2-Butanone	ICAL RRF	0.045	>0.05	ND(0.40) J	
						2-Chloroethylvinylether	ICAL RRF	0.020	>0.05	ND(1.0) J	
						Acetone	ICAL RRF	0.039	>0.05	ND(0.40) J	
						Acetone	CCAL %D	38.3%	<25%	ND(0.40) J	
						Acetonitrile	ICAL RRF	0.003	>0.05	ND(1.6) J	
						Acrolein	ICAL RRF	0.014	>0.05	ND(2.0) J	
						Acrylonitrile	ICAL RRF	0.026	>0.05	ND(2.0) J	
						Chloroethane	CCAL %D	28.3%	<25%	ND(0.080) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(4.0) J	
						Propionitrile	ICAL RRF	0.004	>0.05	ND(1.6) J	
G135-409	43A	5/9/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.030	>0.05	ND(0.0050) J	
						1,2-Dibromo-3-chloropropane	CCAL %D	25.3%	<25%	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.000	>0.05	0.19 J	
						2-Butanone	ICAL RRF	0.045	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.020	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.039	>0.05	ND(0.0050) J	
						Acetone	CCAL %D	38.3%	<25%	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.003	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.014	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.026	>0.05	ND(0.025) J	
						Chloroethane	CCAL %D	28.3%	<25%	ND(0.0010) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.004	>0.05	ND(0.020) J	
G135-409	43B	5/9/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.022	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.023	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.048	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.005	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.020	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
G135-409	89A	5/9/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.030	>0.05	ND(0.40) J	
						1,2-Dibromo-3-chloropropane	CCAL %D	25.3%	<25%	ND(0.40) J	
						1,4-Dioxane	ICAL RRF	0.000	>0.05	ND(8.0) J	
						2-Butanone	ICAL RRF	0.045	>0.05	ND(0.40) J	
						2-Chloroethylvinylether	ICAL RRF	0.020	>0.05	ND(1.0) J	
						Acetone	ICAL RRF	0.039	>0.05	ND(0.40) J	
						Acetone	CCAL %D	38.3%	<25%	ND(0.40) J	
						Acetonitrile	ICAL RRF	0.003	>0.05	ND(1.6) J	
						Acrolein	ICAL RRF	0.014	>0.05	ND(2.0) J	
						Acrylonitrile	ICAL RRF	0.026	>0.05	ND(2.0) J	
						Chloroethane	CCAL %D	28.3%	<25%	ND(0.080) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(4.0) J	
						Propionitrile	ICAL RRF	0.004	>0.05	ND(1.6) J	
G135-409	89B	5/9/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.030	>0.05	ND(0.025) J	
						1,2-Dibromo-3-chloropropane	CCAL %D	25.3%	<25%	ND(0.025) J	
						1,4-Dioxane	ICAL RRF	0.000	>0.05	ND(0.50) J	
						2-Butanone	ICAL RRF	0.045	>0.05	ND(0.025) J	
						2-Chloroethylvinylether	ICAL RRF	0.020	>0.05	ND(0.063) J	
						Acetone	ICAL RRF	0.039	>0.05	ND(0.025) J	
						Acetone	CCAL %D	38.3%	<25%	ND(0.025) J	
						Acetonitrile	ICAL RRF	0.003	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.014	>0.05	ND(0.13) J	
						Acrylonitrile	ICAL RRF	0.026	>0.05	ND(0.13) J	
						Chloroethane	CCAL %D	28.3%	<25%	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.25) J	
						Propionitrile	ICAL RRF	0.004	>0.05	ND(0.10) J	
G135-409	89D-R	5/9/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.030	>0.05	ND(4.0) J	
						1,2-Dibromo-3-chloropropane	CCAL %D	25.3%	<25%	ND(4.0) J	
						1,4-Dioxane	ICAL RRF	0.000	>0.05	ND(80) J	

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Analytical Data Validation Summary

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
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)											
G135-409	89D-R	5/9/2007	Water	Tier II	Yes	2-Butanone	ICAL RRF	0.045	>0.05	ND(4.0) J	
						2-Chloroethylvinylether	ICAL RRF	0.020	>0.05	ND(10) J	
						Acetone	ICAL RRF	0.039	>0.05	ND(4.0) J	
						Acetone	CCAL %D	38.3%	<25%	ND(4.0) J	
						Acetonitrile	ICAL RRF	0.003	>0.05	ND(16) J	
						Acrolein	ICAL RRF	0.014	>0.05	ND(20) J	
						Acrylonitrile	ICAL RRF	0.026	>0.05	ND(20) J	
						Chloroethane	CCAL %D	28.3%	<25%	ND(0.80) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(40) J	
						Propionitrile	ICAL RRF	0.004	>0.05	ND(16) J	
G135-409	95A	5/10/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.022	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.023	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.048	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.005	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.020	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
G135-409	95B-R	5/10/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.030	>0.05	ND(2.0) J	
						1,4-Dioxane	ICAL RRF	0.000	>0.05	ND(40) J	
						2-Butanone	ICAL RRF	0.045	>0.05	ND(2.0) J	
						2-Chloroethylvinylether	ICAL RRF	0.020	>0.05	ND(5.0) J	
						Acetone	ICAL RRF	0.039	>0.05	ND(2.0) J	
						Acetonitrile	ICAL RRF	0.003	>0.05	ND(8.0) J	
						Acrolein	ICAL RRF	0.014	>0.05	ND(10) J	
						Acrylonitrile	ICAL RRF	0.026	>0.05	ND(10) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(20) J	
						Propionitrile	ICAL RRF	0.004	>0.05	ND(8.0) J	
G135-409	DUP#2	5/10/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.022	>0.05	ND(0.0050) J	Parent Sample 95A
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.023	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.048	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.005	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.020	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
G135-409	Trip Blank	5/10/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.022	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.023	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.048	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.005	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.020	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
G135-413	115A	5/14/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.022	>0.05	ND(0.0050) J	
						1,2-Dichloroethane	CCAL %D	27.3%	<25%	ND(0.0010) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.023	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.048	>0.05	ND(0.0050) J	
						Acetone	CCAL %D	30.6%	<25%	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.005	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.020	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
G135-413	115B	5/14/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.022	>0.05	ND(0.0050) J	
						1,2-Dichloroethane	CCAL %D	27.3%	<25%	ND(0.0010) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.023	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.048	>0.05	ND(0.0050) J	
						Acetone	CCAL %D	30.6%	<25%	ND(0.0050) J	

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Analytical Data Validation Summary

Groundwater Quality and NAPL Monitoring Interim Report for Spring 2007
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)											
G135-413	115B	5/14/2007	Water	Tier II	Yes	Acetonitrile	ICAL RRF	0.005	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.020	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
G135-413	2A	5/14/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.023	>0.05	ND(40) J	
						1,4-Dioxane	ICAL RRF	0.000	>0.05	ND(800) J	
						2-Butanone	ICAL RRF	0.003	>0.05	ND(40) J	
						2-Chloroethylvinylether	ICAL RRF	0.014	>0.05	ND(100) J	
						Acetone	ICAL RRF	0.026	>0.05	ND(40) J	
						Acetonitrile	ICAL RRF	0.002	>0.05	ND(160) J	
						Acrolein	ICAL RRF	0.008	>0.05	ND(200) J	
						Acrylonitrile	ICAL RRF	0.017	>0.05	ND(200) J	
						Ethyl Methacrylate	ICAL RRF	0.043	>0.05	ND(8.0) J	
						Isobutanol	ICAL RRF	0.002	>0.05	ND(400) J	
						Methacrylonitrile	ICAL RRF	0.046	>0.05	ND(80) J	
						Methyl Methacrylate	ICAL RRF	0.037	>0.05	ND(8.0) J	
G135-413	39D-R	5/14/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.022	>0.05	ND(0.0050) J	
						1,2-Dichloroethane	CCAL %D	27.3%	<25%	ND(0.0010) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.023	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.048	>0.05	ND(0.0050) J	
						Acetone	CCAL %D	30.6%	<25%	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.005	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.020	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
G135-413	39E	5/14/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.022	>0.05	ND(0.0050) J	
						1,2-Dichloroethane	CCAL %D	27.3%	<25%	ND(0.0010) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.023	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.048	>0.05	ND(0.0050) J	
						Acetone	CCAL %D	30.6%	<25%	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.005	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.020	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
G135-413	GMA3-RB-1	5/14/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.022	>0.05	ND(0.0050) J	
						1,2-Dichloroethane	CCAL %D	27.3%	<25%	ND(0.0010) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.023	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.048	>0.05	ND(0.0050) J	
						Acetone	CCAL %D	30.6%	<25%	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.005	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.020	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
G135-413	Trip Blank	5/15/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.022	>0.05	ND(0.0050) J	
						1,2-Dichloroethane	CCAL %D	27.3%	<25%	ND(0.0010) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.023	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.048	>0.05	ND(0.0050) J	
						Acetone	CCAL %D	30.6%	<25%	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.005	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.020	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.040	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	

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Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs											
G135-406	16A	5/7/2007	Water	Tier II	Yes	4-Chlorophenol	CCAL %D	112.9%	<25%	ND(0.050) J	
G135-406	39B-R	5/7/2007	Water	Tier II	Yes	4-Chlorophenol	CCAL %D	112.9%	<25%	ND(0.050) J	
G135-409	89A	5/9/2007	Water	Tier II	Yes	4-Chlorophenol	CCAL %D	112.9%	<25%	ND(0.010) J	
G135-409	89B	5/9/2007	Water	Tier II	Yes	4-Chlorophenol	CCAL %D	112.9%	<25%	ND(0.010) J	
G135-409	95A	5/10/2007	Water	Tier II	Yes	4-Chlorophenol	CCAL %D	112.9%	<25%	ND(0.010) J	
G135-409	95B-R	5/10/2007	Water	Tier II	Yes	4-Chlorophenol	CCAL %D	112.9%	<25%	0.020 J	
G135-409	DUP#2	5/10/2007	Water	Tier II	Yes	4-Chlorophenol	CCAL %D	112.9%	<25%	ND(0.010) J	Parent Sample 95A
G135-413	2A	5/14/2007	Water	Tier II	Yes	4-Chlorophenol	CCAL %D	106.5%	<25%	ND(0.010) J	
Miscellaneous											
G135-406	111A-R	5/7/2007	Water	Tier II	No						
G135-406	111B-R	5/8/2007	Water	Tier II	No						
G135-406	16A	5/7/2007	Water	Tier II	No						
G135-406	16B-R	5/8/2007	Water	Tier II	No						
G135-406	16C-R	5/7/2007	Water	Tier II	No						
G135-406	39B-R	5/7/2007	Water	Tier II	No						
G135-406	90A	5/8/2007	Water	Tier II	No						
G135-406	90B	5/8/2007	Water	Tier II	No						
G135-406	DUP#1	5/8/2007	Water	Tier II	Yes	Nitrite	Holdtimes (analysis)	72 hrs	<48 hrs	ND(0.10) J	Parent Sample 16B-R
G135-409	114A	5/10/2007	Water	Tier II	No						
G135-409	114B-R	5/10/2007	Water	Tier II	No						
G135-409	43A	5/9/2007	Water	Tier II	No						
G135-409	43B	5/9/2007	Water	Tier II	No						
G135-409	89A	5/9/2007	Water	Tier II	No						
G135-409	89B	5/9/2007	Water	Tier II	No						
G135-409	89D-R	5/9/2007	Water	Tier II	No						
G135-409	95A	5/10/2007	Water	Tier II	No						
G135-409	95B-R	5/10/2007	Water	Tier II	No						
G135-409	DUP#2	5/10/2007	Water	Tier II	No						Parent Sample 95A
G135-413	115A	5/14/2007	Water	Tier II	No						
G135-413	115B	5/14/2007	Water	Tier II	No						
G135-413	2A	5/14/2007	Water	Tier II	No						
G135-413	39D-R	5/14/2007	Water	Tier II	No						
G135-413	39E	5/14/2007	Water	Tier II	No						
G135-413	GMA3-RB-1	5/14/2007	Water	Tier II	No						