Baseline Monitoring Program Proposal for Plant Site 1 Groundwater Management Area

General Electric Company
Pittsfield, Massachusetts

April 2000

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BLASLAND, BOUCK & LEE, INC.
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01-0334

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

April 3, 2000

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

Re: GE-Pittsfield/Housatonic River Site
Baseline Monitoring Program Proposal for Plant Site 1 Groundwater Management Area

Dear Mr. Olson:

Enclosed, pursuant to Paragraph 16.a(4) of the Consent Decree for the GE-Pittsfield/Housatonic River Site, which was lodged in U.S. District Court on October 7, 1999, is GE's *Baseline Monitoring Program Proposal for Plant Site 1 Groundwater Management Area.* In accordance with the Consent Decree, GE will begin the baseline groundwater monitoring program described in this Proposal following EPA's approval of this Proposal or entry of the Consent Decree by the court, whichever is later.

Please call me if you have any questions or wish to discuss this Proposal.

Sincerely yours,

Andrew T. Silfer/jvc

Andrew T. Silfer, P.E.
GE Project Coordinator

Enclosures

cc: Tim Conway, EPA
Michael Nalipinski, EPA
Holly Inglis, EPA
K.C. Mitkevicius, USACE
Dawn Veilleux, WESTON (Manchester, NH)
J. Lyn Cutler, MDEP (2 copies)
Alan Weinberg, MDEP
Robert Bell, MDEP
John Ziegler, MDEP
James Milkey, MA AG
Thomas La Rosa, MA EOEA
Charles Fredette, CDEP
Mayor Gerald Doyle, City of Pittsfield
Jeffrey Bernstein, Bernstein, Cushner & Kimmel
Anton Giedt, NOAA
Mark Barash, DOI
Jane Gardner, GE (w/o enclosure)
Andrew Thomas, GE
Randy McAllister, GE
Michael Carroll, GE
John Ciampa, GE
James Bieke, Shea & Gardner
Samuel Gutter, Sidley & Austin
Robert Goldman, Blasland, Bouck & Lee
James Nuss, Blasland, Bouck & Lee
Public Information Repositories
GE Internal Repositories

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6723 Towpath Road, P.O. Box 66
Syracuse, New York, 13214-0066
(315) 446-9120

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1. Introduction

1.1 General

On October 7, 1999, a Consent Decree (CD) executed 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 lodged in the United States District Court for the District of Massachusetts (U.S. District Court). The CD requires (among other things) the performance of response actions to address polychlorinated biphenyls (PCBs) and other hazardous constituents in soils, sediment, and groundwater in several areas at and near Pittsfield, Massachusetts that collectively comprise the GE-Pittsfield/Housatonic River Site (the Site). The CD is required to undergo a period of public comment (with responses by the United States to such comments) before it is entered by the U.S. District Court as a binding court judgment. The public comment period ended on February 23, 2000, and the United States is currently preparing its responses to the comments.

The CD provides for the performance of numerous Removal Actions at the Site in areas located outside the Housatonic River. Some of those Removal Actions relate to the soils in various Removal Action Areas (RAAs) designated in the CD and an accompanying *Statement of Work for Removal Actions Outside the River* (SOW) (which is Appendix E to the CD). Other Removal Actions relate to the groundwater, as well as non-aqueous-phase liquid (NAPL) (if any), in a number of these areas. For purposes of the latter, the areas at and near the GE Pittsfield facility have been divided into five Groundwater Management Areas (GMAs), some of which include multiple RAAs, based on the geographical proximity of such RAAs and similarities in hydrogeologic conditions. These GMAs are described, together with the Performance Standards established for the Removal Actions at and related to them, in Section 2.7 of the SOW, with further details presented in Attachment H to the SOW (Groundwater/ NAPL Monitoring, Assessment, and Response Programs).

In the CD, GE agreed to conduct certain activities at the Site prior to entry of the CD by the U.S. District Court. One of these activities involves the development and submission (but not implementation) of a Baseline Monitoring Program Proposal for the Plant Site 1 GMA. As shown on Figure 1, the Plant Site 1 GMA (referred to herein as GMA 1) occupies an area of approximately 215 acres encompassing a large part of the GE facility as well as certain adjacent areas, and includes 11 RAAs (also identified on Figure 1).

In accordance with GE's agreement in the CD, this *Baseline Monitoring Program Proposal for Plant Site 1 Groundwater Management Area* (GMA 1 Baseline Monitoring Proposal) has been prepared to summarize the currently available hydrogeologic information for GMA 1 and, based on that information, to propose baseline

groundwater monitoring activities that will be used to support further response actions as part of the Plant Site 1 GMA Removal Action. This proposal has been developed to meet the requirements for baseline monitoring program proposals for GMAs, as set forth in Attachment H to the SOW. As specified in Attachment H, each such proposal must include (where applicable) the following items:

- Summary of historical groundwater data;
- Results of updated monitoring well inventory;
- A proposal to conduct baseline monitoring at the wells identified in Attachment H to the SOW, with any additions or modifications proposed by GE;
- A proposal regarding the groundwater constituents to be subject to baseline monitoring, considering initially all compounds listed in Appendix IX of 40 CFR Part 264 plus 2-chloroethylvinyl ether, benzidine, and 1,2-diphenylhydrazine (Appendix IX+3), as applicable to the monitoring objective, with any proposed well-specific limitations based on prior data from such well(s);
- Identification of existing and proposed wells to be monitored for the presence and thickness of NAPL;
- An assessment of existing NAPL recovery systems and/or programs, including proposals to optimize NAPL recovery, if appropriate;
- Proposals regarding other groundwater quality parameters to evaluate intrinsic/natural processes that may mitigate groundwater impacts (if applicable), and regarding wells (if any) to be subject to hydraulic conductivity testing;
- Identification of other potential sources, as well as an evaluation of the need for additional monitoring for potential preferential pathways near occupied buildings;
- Proposed frequency and duration of baseline monitoring activities (including quarterly water level monitoring and semi-annual groundwater quality monitoring for at least two years); and

- A schedule for baseline field activities, assessments, and reporting.

The baseline activities proposed to address the above requirements in this GMA 1 Baseline Monitoring Proposal have been based on information obtained from prior hydrogeologic investigations and prior/ongoing remedial actions. Groundwater conditions within GMA 1 have been studied for approximately 20 years, during which time over 500 monitoring wells have been installed and over 350 groundwater samples have been collected and analyzed. In addition, within this GMA, GE has installed and continues to operate twelve recovery wells which have automated groundwater/NAPL collection pumps and five other wells which have automated NAPL recovery pumps, and also conducts NAPL monitoring and manual recovery on a routine basis at numerous other wells in this GMA. Further, GE has previously performed several assessments of overall hydrogeologic conditions and potential source areas to satisfy its prior obligations under various state and federal environmental programs. The results of these efforts have also been considered in the preparation of this baseline monitoring proposal.

Since lodging of the CD, and as part of the preparation of this GMA 1 Baseline Monitoring Proposal, GE has further reviewed the available hydrogeologic data and groundwater/NAPL conditions within GMA 1. The results of this review (summarized herein) generally confirm that the baseline monitoring activities identified in the SOW are sufficient to assess current conditions and support future groundwater-related response actions within GMA 1. However, as described herein, some modifications to the baseline monitoring program described in Attachment H to the SOW have been identified and are proposed.

1.2 Format of Document

The remainder of this GMA 1 Baseline Monitoring Proposal is presented in four sections. Section 2 provides a summary of background information concerning GMA 1, including a brief description of the RAAs that comprise GMA 1, and a summary of the historical groundwater analytical data. Section 3 discusses the applicable Performance Standards identified in the CD related to groundwater and NAPL within GMA 1. Section 4 identifies additional baseline data needs and describes the baseline monitoring program proposed by GE to satisfy those data needs. Finally, Section 5 presents the proposed schedule for the baseline field and reporting activities.

2. Background Information

2.1 General

As discussed above, the CD and the SOW provide for the performance of groundwater-related Removal Actions at a number of GMAs. Some of these GMAs include multiple RAAs to reflect the fact that groundwater may flow across several RAAs. The GMAs within the Site and the associated RAAs are detailed in the following table and shown on Figure 1:

Groundwater Management Area (GMA)	GMA Name	Removal Action Area (RAA)
1	Plant Site 1	40s Complex 30s Complex 20s Complex East Street Area 2 - South East Street Area 2 - North East Street Area 1 - South East Street Area 1 - North Lyman Street Area Newell Street Area II Newell Street Area I Silver Lake Area
2	Former Oxbows J and K	Former Oxbow Areas J and K
3	Plant Site 2	Unkamet Brook Area (east of Plastics Ave.)
4	Plant Site 3	Hill 78 Consolidation Area Building 71 Consolidation Area Hill 78 Area - Remainder Unkamet Brook Area (west of Plastics Ave.)
5	Former Oxbows A and C	Former Oxbow Areas A and C

The remainder of this section discusses pertinent background information concerning GMA 1, including general descriptions of the RAAs which comprise the GMA, the general hydrogeologic setting, the principal sources of groundwater contamination in the area, ongoing groundwater and NAPL-related monitoring programs, prior groundwater analytical results, and the most recent inventories of the condition of monitoring wells in the GMA.

2.2 Description of Plant Site 1 Groundwater Management Area

GMA 1 encompasses several RAAs, as summarized in Section 2.1 and shown on Figure 1. These areas are briefly described below.

40s Complex (RAA 1)

This approximately 10-acre area is located within the western portion of GE's Pittsfield facility and is generally bounded by Kellogg Street to the north, other areas of the GE facility to the south and east, and non-GE owned commercial/industrial areas to the west. Currently, Buildings 42, 43, 43-A, and 44 comprise nearly one-half of this area (eastern portion) while the remainder is mostly paved (asphalt/concrete). Previously, Buildings 40-B, 41, and 41-A comprised much of the western portion of this area; these buildings were demolished in the early 1990s, although the subgrade portions of these buildings remain within this area.

30s Complex (RAA 2)

This approximately 20-acre area is located south of the 40s Complex, and is generally bounded by Silver Lake Boulevard to the west, East Street to the south, and other areas of the GE facility to the south and east. The surface of this area generally consists of asphalt/concrete, some unpaved areas, and several existing buildings.

20s Complex (RAA 3)

This approximately 15-acre area is located immediately east of the 30s Complex within the western portion of the GE facility, and is generally bounded by East Street to the south and other areas of the GE facility to the north and east. Current conditions within this area are predominantly characterized by the existing asphalt parking areas. The main parking lot located in this area covers the existing 20s Complex vault, which was used in the late 1980s to consolidate building debris generated during the demolition of the above-grade portions of several former buildings in this area, as well as some equipment housed within the former buildings. At this time, only two buildings remain in this area.

East Street Area 2 - South (RAA 4)

This area comprises approximately 50 acres of the western portion of the GE facility. It is generally bounded by East Street to the north, Newell Street to the east, the Housatonic River to the south, and the Lyman Street Area to the west. The central portion of East Street Area 2 - South contains one of the former Housatonic River oxbows (Oxbow Area H). This area is mostly open, with a relatively small wooded area located south of the former oxbow. The western portion of this area is composed mostly of the 60s Complex, and is otherwise mostly paved. An area southeast of the 60s Complex contains a scrap yard, which has been used as a scrap metal crushing, sorting, and storage area.

East Street Area 2 - North (RAA 5)

This approximately 50-acre area is also located within the western portion of the GE facility. It is currently covered mostly with buildings and pavement. However, several relatively small grassy areas are present within the eastern portion of this area. This area is generally bounded by Tyler Street to the north; New York Avenue to the east; Woodlawn Avenue and the 40s Complex to the west; and Merrill Road, the 20s Complex, and East Street to the south.

East Street Area 1 - South (RAA 18)

This area consists primarily of residential properties and a few commercial businesses located between East Street Area 1 - North, Newell Street, Fasce Street, and the Housatonic River. Groundwater in this area will be addressed in accordance with the CD and SOW. However, soil-related issues in the East Street Area 1-South RAA will not be addressed pursuant to the CD and SOW, but rather pursuant to a revised Administrative Consent Order to be executed by GE and MDEP.

East Street Area 1 - North (RAA 6)

This approximately 5-acre area is mostly unpaved, and is generally bounded by Merrill Road to the north and west, East Street to the south, and a non-GE owned commercial area to the east. This area also includes the area currently occupied by a commercial-use building (of which GE owns a portion), and a relatively small unpaved GE-owned property south of East Street.

Lyman Street Area (RAA 12)

This approximately 9-acre area is located immediately west of East Street Area 2 - South and is generally bounded by the Housatonic River to the south, East Street and several commercial/residential properties to the north, and Cove Street to the west. Approximately 3 acres of this area are composed of the GE-owned Lyman Street Parking Lot, which is paved. The remaining GE-owned portions of this area are partially paved and undeveloped. The non-GE-owned portions of this area consist of an undeveloped right of way for high tension electricity transmission lines (containing Former Oxbow Area E) and Former Oxbow Area B. Former Oxbow Area B is approximately 3 acres in size and located north of and across the Housatonic River from Former Oxbow Area C, west of Lyman Street, and immediately east of Cove Street. Nearly all of this former oxbow area is used for parking in support of local commercial businesses, although a commercial use building occupies a small portion of this area. The remaining portions are undeveloped.

Newell Street Area II (RAA 13)

This approximately 8-acre area is located immediately west of the Newell Street Area I RAA and is generally bounded by the Housatonic River to the north, Newell Street and residential property to the south, and Sackett Street to the west. Approximately 3 acres of this area is composed of the GE-owned Newell Street Parking Lot, which is paved. The remaining GE-owned portions of this area are wooded. The non-GE-owned portions of this area consist of an undeveloped right of way for high tension electricity transmission lines, and undeveloped private, non-residential property. Former Oxbow Area G is located within this RAA.

Newell Street Area I (RAA 14)

This approximately 11-acre area includes Former Oxbow Area I, and is generally composed of 10 commercial/industrial properties and three recreational properties located along Newell Street. This area is bounded by the Housatonic River to the north, Newell Street to the south, the Hibbard School playground to the east (including the northwest corner of that playground within this RAA), and Ontario Street Extension and the GE-owned Newell Street Parking Lot to the west.

Silver Lake Area (RAA 17)

The Silver Lake Area is located immediately to the west of and across Silver Lake Boulevard from the 30s Complex and includes the lake and its banks. Silver Lake has a surface area of approximately 26 acres and a maximum water depth of about 30 feet. It receives stormwater contributions from several municipal outfalls, a portion of the GE Plant Area (via NPDES-permitted outfalls), and a number of non-GE-owned properties (both commercial and residential). Silver Lake is hydraulically connected to the Housatonic River by a 48-inch diameter concrete conduit located near the intersection of Fenn Street and East Street. This conduit conveys intermittent flow from Silver Lake and stormwater runoff from Fenn Street and East Street to the Housatonic River.

2.3 Hydrogeologic Setting

2.3.1 General

Over 500 monitoring wells and associated soil borings have been installed across GMA 1. Data collected at the time of soil boring/monitoring well installation (e.g., lithologic descriptions of the subsurface materials) and subsequent groundwater monitoring at many of these locations have produced an extensive database of hydrogeologic information from which this GMA 1 Baseline Monitoring Proposal has been prepared. Although variations to the hydrogeologic setting within GMA 1 exist depending on the specific location and RAA, the available data support a general assessment of subsurface conditions and groundwater hydraulics within GMA 1 and are sufficient for the purposes of this GMA 1 Baseline Monitoring Proposal. In general, three hydrogeologic, water-bearing units are present within GMA 1. These units are briefly described below:

Surficial Deposits

This unit generally consists of heterogenous fill materials overlying alluvial sands and gravels. These well-sorted sands and sandy gravels were deposited as glacial outwash and/or in association with recent depositional processes within the Housatonic River. Isolated peat deposits are also present, typically at depths corresponding to the bottom elevations of the river and the former oxbows. At certain locations within GMA 1, non-native fill materials are present above the alluvial deposits. The fill materials, where present, consist of sand, gravel, cinders, brick, glass, and other similar material.

The alluvial unit extends from ground surface to depths ranging from less than 5 feet in the northern portion of GMA 1 to over 40 feet in the southeastern corner of the GMA. The majority of the existing monitoring wells within GMA

1 are screened within this unit, as it is the upper and primary water-bearing unit within the GMA. Groundwater is encountered under unconfined conditions within this unit at depths between less than 3 feet to over 25 feet below ground surface.

Glacial Till

The till unit underlies the alluvial deposits and consists of approximately 20 to 40 feet of dense silt containing varying amounts of clay, sand, and gravel. Discontinuous sandy lenses also have been identified in the till at the Lyman Street Area RAA in the southwestern portion of GMA 1. Till is encountered relatively close to the ground surface at the higher elevation areas in the East Street Area 2 - North RAA, but otherwise generally encountered at depths beginning at approximately 20 feet beneath the remainder of GMA 1.

The glacial till unit is generally much less permeable than the alluvial deposits and serves as a hydraulic barrier to downward groundwater flow and potential constituent migration. Wells installed within the till are generally located in the East Street Area 2 - North RAA, where the till serves as the uppermost water-bearing unit. Additionally, numerous monitoring wells throughout GMA 1 have also been installed to intercept the alluvial deposit/till interface to monitor for the potential presence of dense non-aqueous liquid (DNAPL) along this hydrogeologic interface.

Bedrock

Bedrock beneath GMA 1 consists of white coarse-grained marble associated with the Stockbridge Formation. Bedrock occurs within this GMA at depths up to approximately 50 to 60 feet. Generally, bedrock occurs at shallower depths in the upland portions of the plant site and dips downward to greater depths near the Housatonic River. An industrial water supply well in bedrock was formerly utilized at Building 31 and a series of currently active production wells are present at the U.S. Generating Company located immediately to the east of GMA 1 within GMA 4.

2.3.2 Groundwater Flow

Groundwater at GMA 1 generally flows toward the Housatonic River and is primarily influenced by the existing topography. However, several ongoing groundwater extraction systems related to NAPL recovery operations and a groundwater recharge pond produce relatively localized variations in the flow direction. Figures 2 and 3 illustrate

generalized high and low water table conditions, respectively. These figures were prepared, to the extent possible, using actual groundwater data from historical and representative periods of high (Spring 1994) and low (Fall 1998) groundwater elevations. At locations where groundwater elevation data were not available for these time periods, equivalent high and low groundwater elevations were calculated based on area-specific average changes in groundwater elevations during similar timeframes.

As can be seen on Figures 2 and 3, in general, the hydraulic gradients are variable within GMA 1. The horizontal component of the hydraulic gradient generally decreases toward the Housatonic River, corresponding to a flattening in the surface topography. Monitoring of well pairs or closely-spaced shallow and deep well clusters at GMA 1 indicate that the vertical component of the hydraulic gradient is primarily upward, particularly near the river.

2.4 Principal Sources of Groundwater Contamination

There are several identified sources of constituents potentially affecting groundwater quality within GMA 1. Based on current information, the principal sources appears to include the following:

- Light non-aqueous phase liquid (LNAPL) and DNAPL in 20s Complex, and East Street Area 2 - North and South;
- LNAPL in East Street Area 1 - North and South;
- Scrap Yard and former drum storage area in East Street Area 2 - South; and
- Former Oxbows.

Each of these sources of potential groundwater contamination is described below.

LNAPL and DNAPL in 20s Complex and East Street Area 2 - North and South - In the past, GE used these areas of the facility in various manufacturing operations, primarily the manufacture of electrical transformers and associated components. These areas contained GE's primary transformer oil storage and distribution facilities (e.g., Building 12G Pyranol Unloading Station and Storage Area and Building 3C oil storage area), and spills and leaks periodically occurred during those operations. As a result, various oils, some containing PCBs, and other materials were released to the environment.

In addition, the Berkshire Gas Company (Berkshire Gas) operated a coal gas manufacturing and storage facility in portions of these areas. Following a decommissioning process performed by Berkshire Gas (which reportedly

included the hauling of waste sludges and tars off site, deposition of materials in the former oxbow in East Street Area 2 - South, and in-place abandonment of waste tars, sludges, and related equipment), the property was sold to GE in 1973.

The LNAPL in these areas is present as a plume occupying portions of the 20s Complex, East Street Area 2 - North, and East Street Area 2 - South. This LNAPL plume measures several acres in size, and is currently subject to various monitoring and recovery operations being conducted by GE. Section 2.5.2 further describes these programs. The presence of DNAPL within these areas is limited to several pockets located mainly in East Street Area 2 - South. These DNAPL occurrences are also subject to current monitoring and/or recovery programs being conducted by GE (see Section 2.5.2).

LNAPL in East Street Area 1 - North and South (RAAs 6 and 18) - Prior to 1964, a portion of the GE facility, referred to as the Building 12F Tank Farm, located within East Street Area 1 - North, was used for the storage of mineral oil dielectric fluid. A total of 14 underground storage tanks, ranging in size from 20,000 gallons to 25,000 gallons, and one 100,000-gallon capacity aboveground storage tank were located in this area. The LNAPL currently present in the subsurface of this area is believed to have originated from this former tank farm area. However, while these tanks were not used for storage of pyranol, some residual PCBs have been detected during prior sampling of the LNAPL. The presence of PCBs in LNAPL in this area may have resulted from limited interconnections between PCB and mineral oil distribution systems. Section 2.5.1 further describes the current LNAPL monitoring and recovery operations being conducted by GE in this area.

Scrap Yard and Drum Storage Area in East Street Area 2 - South - The former Scrap Yard area was situated south of Building 64 in East Street Area 2 - South. This area has also been referred to as the Materials Reclamation Area, and was used as a scrap metal crushing and storage area. Scrap metals generated throughout the GE facility were delivered to this area, compacted using a pressure crusher located within building 61-R, and shipped off site for disposal/salvage. The former Drum Storage Area was located east of the former Scrap Yard area and north of the former Thermal Oxidizer. The area was used as a "less than 90-day" drum storage area and transfer facility for hazardous wastes generated throughout the plant. Waste materials managed at this location were subsequently transferred to the Building 68 Drum Storage Area, incinerated in the former Thermal Oxidizer, or shipped off-site.

Former Oxbows - In an effort to reduce flooding potential of the Housatonic River, the City of Pittsfield, in a joint program with the United States Army Corps of Engineers in the late 1930s and early 1940s, altered the natural course

of the river through the urban areas of Pittsfield to form a relatively straight channel. A total of 11 oxbows or low-lying areas, which had previously conveyed river flows, were isolated from the newly formed channel of the river. These oxbows were subsequently filled with materials originating from the GE facility as well as other sources. Seven of these former oxbows areas are located within GMA 1; these include Former Oxbows B, D, and E within the Lyman Street Area, Former Oxbows F and G within Newell Street Area II, Former Oxbow H within East Street Area 2 - South, and Former Oxbow Area I within Newell Street Area I. NAPL has been detected in the subsurface at portions of the Lyman Street and Newell Street Area II RAAs.

2.5 Current NAPL Monitoring Programs

GE has conducted, and continues to conduct, various monitoring, assessment, and response action activities related to NAPL in GMA 1. Under the CD and SOW, GE is required to continue these monitoring, assessment, and response action activities, including the submission of periodic summary reports, until applicable Performance Standards (described in Section 3 of this report) are achieved. Currently, GE conducts monitoring and recovery operations for light non-aqueous phase liquid (LNAPL) and/or DNAPL (along with aqueous phase recovery and treatment as a byproduct of NAPL recovery) at the following RAAs within GMA 1:

- East Street Area 1 - South;
- East Street Area 1 - North;
- East Street Area 2 - South;
- 20s, 30s, and 40s Complexes;
- East Street Area 2 - North;
- Lyman Street Area; and
- Newell Street Area II;

The scope of current NAPL monitoring and recovery programs within GMA 1 are described below. The locations of the existing recovery systems and the current extent of NAPL are illustrated on Figure 4, while Table 1 identifies the wells that are monitored as part of the ongoing programs. The historical data on recovery of NAPL in these areas, as well as the existing analytical data for the NAPL, are summarized in Appendix A.

2.5.1 East Street Area 1 - North and South (RAAs 6 and 18)

As illustrated on Figure 5, approximately 70 wells in this area are currently monitored on a semi-annual basis for the presence of LNAPL. Additionally, six wells (34, 52, 72, 105, 106, 131) are monitored monthly, with any LNAPL accumulations (if present) removed manually. These monitoring and manual recovery activities are conducted to supplement active groundwater pumping/LNAPL recovery operations which are provided by two systems in this area (northside and southside collection systems) which are composed of caissons equipped with automated groundwater extraction pumps and oil skimmers. The northside collection system, installed in 1979, consists of a perforated steel caisson and perforated collection laterals. The laterals start at a depth of 7.5 feet below grade, and extend to a depth of 18.5 feet. The southside collection system, installed in 1987, consists of a perforated precast concrete caisson that extends to a depth of approximately 16 feet below grade. Both NAPL recovery systems include mechanisms to recover and remove LNAPL that enters into the collection caissons. Since 1980, the systems have collected over 1,300 gallons of LNAPL from this area. A more detailed summary of NAPL recovery data related to these systems is included in Appendix A to this document.

As shown on Figure 6, active pumping and manual oil recovery efforts for this area have reduced the extent of LNAPL to a few relatively small pockets located along East Street. In the recent semi-annual report for this area (Fall 1999 monitoring period - BBL, January 2000), GE proposed to conduct further assessment activities at two monitoring wells (34 and 72) located between the active recovery caissons to assess the feasibility of providing additional hydraulic control in this area. Specifically, GE proposed groundwater pumping test in wells 34 and 72 (see Figure 6) to determine the removal rate at which a constant drawdown can be maintained in the wells. The data obtained during this tests will be used to evaluate the feasibility of installing an automated pumping/recovery system in one or both of these wells. GE received Agency approval of this proposal in February 2000 and conducted the assessment activities during the week of March 20, 2000. In the near future, GE will submit a report which evaluates the results and provides recommendations for future activities.

2.5.2 20s, 30s, and 40s Complexes and East Street Area 2 - South and North (RAAs 1, 2, 3, 4, and 5)

As illustrated on Figure 7, approximately 145 wells in this combined area (formerly known as East Street Area - 2) are currently monitored for the presence of LNAPL on a semi-annual basis, while numerous additional wells are monitored for LNAPL and/or DNAPL on a weekly and monthly basis. Manual NAPL recovery is also conducted, as appropriate, when various program-specific NAPL thicknesses are detected. Table 1 presents a summary of these wells and associated monitoring frequencies. Historical NAPL recovery data are presented in Appendix A.

In addition to the monitoring/manual recovery activities described above, several active groundwater/NAPL recovery operations are also conducted by GE in this area. These active operations include the following pumping systems: RW-1(S), RW-1(X), RW-2(X), 64R/40R, 64S, 64V, and 64X (west). Three of these recovery systems (64R, 64S, and 64X) are composed of 7- to 8-foot diameter caissons from which a series of collection laterals extends. The remaining systems consist of recovery wells with diameters ranging from 8 inches to 2 feet. These systems actively pump groundwater and recover NAPL which enters the caisson/well. An automated oil skimming system is also installed in well 40R.

In addition to these active recovery systems, a 380 feet long by 30 feet deep slurry wall and a groundwater recharge pond provide further physical and hydraulic containment of LNAPL (see Figures 2 and 3). Also, a sheetpile containment barrier has been constructed along the riverbank near the 64X recovery system to minimize the potential for NAPL to migrate toward the Housatonic River.

The historic ongoing LNAPL removal programs are effectively reducing the LNAPL thickness across this area and preventing lateral expansion/migration of LNAPL. Since 1975, over 820,000 gallons of LNAPL have been removed by the recovery systems. Figure 8 presents a comparison of past and recent configurations of LNAPL extent within this area. As shown on this figure, the lateral extent and thickness of the LNAPL plume has decreased over time. Particularly notable is the reduction of the area within the plume containing an LNAPL thickness greater than 0.8 feet.

In addition to the remediation efforts for the primary LNAPL oil plume in this area, GE is also performing recovery activities within a former elevator shaft located in Building 42. On March 5, 1997, GE provided oral notification to the MDEP that a release of approximately 220 gallons of hydraulic oil had occurred from a hydraulic component of the freight elevator located in Building 42. Since reporting the release, GE has identified and implemented an Immediate Response Action (IRA) to recover the hydraulic oils not immediately collected following the initial release, and has assessed the potential for further migration of the released oils within the environment. Collectively, these activities include the decommissioning of the freight elevator, initiation and performance of oil recovery operations from the Building 42 Elevator Shaft, and investigations (utilizing both existing and new monitoring wells in the area) to assess the potential for the subsurface migration of oils released from the elevator shaft.

As part of the decommissioning, dismantling, and cleaning of the freight elevator and its related components, GE removed an additional 135 gallons of oil. Once the freight elevator was removed, GE converted the abandoned

hydraulic cylinder into an oil recovery well by drilling several holes through the cylinder wall and installing an automatic LNAPL skimming device. To date, a total of approximately 190 gallons of the hydraulic oil have been recovered from the abandoned hydraulic cylinder associated with the former Building 42 freight elevator.

An IRA Completion Report was submitted to MDEP on July 24, 1998. GE demonstrated that the overall objectives of the IRA have been achieved, as a significant quantity of the released hydraulic oils were recovered (over 80% of the initial release volume), thus minimizing the potential for the remaining oils to migrate within the environment. Further activities have been performed as part of ongoing programs for the 40s Complex. Specifically, GE continues to operate the automated oil recovery system and collects weekly data concerning the depth to the water table and thickness of oil (if oils are present). All data associated with these efforts are provided in monthly status reports prepared by GE. In addition, GE monitors downgradient wells 95-16 and ES2-19 as part of the semi-annual monitoring program. No oil has been observed in these wells since their addition to the program.

In addition to the occurrences of LNAPL within this combined area, prior investigations in this area have defined several occurrences of DNAPL. These occurrences are illustrated on Figure 4, and generally involve the presence of DNAPL at the till confining layer at these locations. In addition to the periodic monitoring and manual recovery related to these occurrences (refer to Table 1), GE has implemented other measures designed to recover/control the migration of DNAPL in this area. These activities include the installation of a sheetpile containment barrier along the riverbank near Building 68 and the recent installation (in July 1999) of a DNAPL recovery well (RW-3X) along the riverbank near the 64X LNAPL recovery system. Well RW-3(X) was installed in September 1999 to recover DNAPL from the riverbank area. Following installation, DNAPL recovery testing was performed in this well. The results of this testing (submitted to EPA in October 1999) were utilized in the design of an automated recovery system for this well. Currently, this well is monitored weekly and DNAPL accumulations are manually pumped. This manual removal will continue until the construction of the automated pumping system is completed. Over 300 gallons of DNAPL have been removed from East Street Area 2 - South since 1997.

2.5.3 Lyman Street Area (RAA 12)

As shown on Figure 9, GE currently monitors 43 wells and well points for LNAPL and DNAPL on a regular basis (see Table 1). Generally, LNAPL accumulations greater than 0.25 feet in thickness and DNAPL accumulations greater than 1 foot are manually removed from any well. Exceptions to this are that: (a) LNAPL is not manually removed from monitoring wells located immediately adjacent to active recovery wells; and (b) DNAPL is manually

removed from wells LSSC-7 and LSSC-16I regardless of thickness. In addition to manual recovery activities, three automated NAPL/groundwater recovery systems are in operation: RW-1 and RW-2 were installed in 1992, and RW-3 first became operational in August 1996. Well RW-1 was replaced, because of apparent fouling, by a new recovery well [RW-1(R)], which became operational in September 1998. Since 1992, over 1,900 gallons of LNAPL and approximately 700 gallons of DNAPL have been removed from this area. Results of the ongoing monitoring and NAPL remediation activities are summarized in annual reports submitted to EPA and MDEP.

The extent of LNAPL and DNAPL in this area has been defined during several past investigations. Figure 9 shows locations where LNAPL and DNAPL are currently observed within the Lyman Street Area RAA. Given the relatively new NAPL recovery operations (relative to those related to the East Street Area 1 and 2 RAAs), the extent of NAPL within this area has not historically varied to a degree to produce a meaningful comparison between past and present configurations.

With respect to recent and future NAPL-related activities within this area, in July 1999 GE submitted to the EPA a technical plan for the installation of a 400 linear foot sheetpile containment barrier. Figure 9 identifies the approximate location of the proposed barrier along the southern edge of the Lyman Street parking lot. Similar to the barrier installed along the riverbank area within the East Street Area 2 - South RAA in 1999, the proposed barrier is intended to provide supplemental NAPL containment beyond what is already provided by the three pumping systems. The design of the Lyman Street sheetpile containment barrier was conditionally approved by EPA in August 1999 and construction is scheduled to be completed in Spring 2001. In addition, the feasibility of operating additional DNAPL recovery systems in this area were recently evaluated at three wells (LS-34, LSSC-07, and LSSC-16I). The results of this assessment (provided to the EPA in September 1999) concluded that installation of automated DNAPL recovery systems were not warranted, but an enhanced manual removal effort was proposed. This proposal was subsequently approved by EPA and GE is currently implementing that program.

2.5.4 Newell Street Area II Area (RAA 13)

The extent of LNAPL and DNAPL in this area has been defined during several past investigations, which have involved the installation of numerous monitoring wells to the till confining layer interface. Figure 5 shows locations where LNAPL and DNAPL are currently observed at Newell Street Area II. Since 1998, approximately 2 gallon of LNAPL and over 15,000 gallons of DNAPL have been removed from this area. Detailed NAPL recovery data is presented in Appendix A.

- *Supplemental Phase II/RCRA Facility Investigation Report for Housatonic River and Silver Lake*, BBL, January 1996;
- *MCP Phase I and Interim Phase II Report for Former Housatonic River Oxbow Areas A, B, C, J, and K*, BBL, February 1996;
- *Addendum to Phase II/RFI Proposal - East Street Area 2/ USEPA Area 4*, Golder Associates, May 1996;
- *Addendum to Supplemental Phase II SOW / RFI Proposal - East Street Area 1/ USEPA Area 3*, Golder Associates, November 1996;
- *Revisions to Addendum to Phase II/RFI Proposal - East Street Area 2/ USEPA Area 4*, Golder Associates, April 1997;
- *MCP Phase II/RCRA Facility Investigation Report for Lyman Street Parking Lot/USEPA Area 5A*, BBL, June 1997;
- *MCP Supplemental Phase II Report for the Newell Street I Site*, BBL, September 1997;
- *Addendum to MCP Supplemental Phase II/RCRA Facility Investigation Proposal for Lyman Street / USEPA Area 5A*, BBL, October 1997;
- *Pittsfield 1-1057, USEPA Area 5B GE/Newell Street Area II - Phase II/RFI Data and Boring Logs*, BBL, May 1996 (data verified July 1998);
- *Source Control Investigations and Preliminary Containment Barrier Design for East Street Area 2, GE Company, Pittsfield, Massachusetts*, GE, November 1998;
- *Proposal for Supplemental Source Control Containment/Recovery Measures*, BBL, January 1999;
- *DNAPL Assessment, East Street Area 2 Site, Pittsfield, Massachusetts*, HSI Geotrans, Inc., April 1999 ; and
- *Source Control Investigation Addendum Report, Upper Reach Housatonic River (First ½ Mile), Pittsfield, Massachusetts*, HSI Geotrans, Inc., June 1999.

The investigations described in the above reports have produced a substantial amount of groundwater analytical data for GMA 1, involving analytical data from over 350 groundwater samples. The groundwater analyses conducted during these investigations are summarized in Table 2, and pertinent groundwater analytical data are summarized in Appendix C. A broader review of the groundwater analytical data indicates that:

- approximately 90% of the samples were analyzed for PCBs (total and/or dissolved);
- approximately 80% of the samples were analyzed for VOCs and/or SVOCs;
- approximately 30% of the samples were analyzed for inorganics (total and/or dissolved);

3. Summary of Applicable Performance Standards

3.1 General

This section describes the Performance Standards that are applicable to response actions to address groundwater and NAPL for GMA 1. Those Performance Standards are set forth in Section 2.7 and Attachment H (Section 4.0) of the SOW. They relate primarily to the groundwater quality and NAPL-related conditions that must ultimately be achieved for GMA 1 and the long-term monitoring program that will be performed at this GMA, after completion of the baseline monitoring program, to assess achievement of those conditions. However, it is important to understand these Performance Standards in the context of the baseline monitoring program, since they provide the criteria for evaluating the results from that program and for conducting further response actions.

The following sections provide a summary of the applicable Performance Standards for groundwater quality and NAPL, respectively. As noted above, the Performance Standards are set forth in full in Section 2.7 and Attachment H of the SOW.

3.2 Groundwater Quality Performance Standards

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

- GW-2 Groundwater - Groundwater that is a potential source of hazardous 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 with an average annual depth to groundwater of 15 feet or less. Under the MCP, VOCs present within GW-2 groundwater represent a potential source of organic vapors to the indoor air of the overlying occupied structures.

- GW-3 Groundwater - Groundwater that discharges to surface water; by MCP definition, all groundwater at a site is classified as GW-3 since it is considered to be ultimately discharged to surface water. It should be noted that within GMA 1 some groundwater does not in fact discharge directly to surface water because of the operation of numerous groundwater pumping systems. Water extracted from these systems is transferred to an on-site treatment

plant for processing prior to discharge. Nevertheless, in accordance with the CD, all groundwater at GMA 1 will be considered as GW-3.

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

Based on consideration of the above points, the specific groundwater quality Performance Standards for GMA 1 consist of the following:

1. At monitoring wells designated as compliance points to assess GW-2 groundwater (i.e., groundwater located within 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 developed using procedures in the MCP or approved by EPA (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 upon 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 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 developed using procedures in the MCP or approved by EPA (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. As discussed in Section 4 of this GMA 1 Baseline Monitoring Proposal, several existing and proposed wells have been selected as the compliance points for attainment of the Performance Standards identified above.

3.3 NAPL Performance Standards

The NAPL Performance Standards applicable to GMA 1 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.

4. Proposed Baseline Monitoring Program

4.1 General

This section describes the baseline monitoring activities proposed by GE for groundwater and NAPL within GMA 1. This section has been developed based on a review of the available hydrogeologic information associated with GMA 1 (Section 2), as well as the applicable Performance Standards summarized in Section 3 of this document. As previously indicated, the anticipated baseline monitoring activities for GMA 1 were previously identified in Attachment H to the SOW, and were collectively developed between GE and the Agencies prior to lodging of the CD. Since lodging of the CD (on October 7, 1999), GE has conducted a further review of the available data related to the hydrogeologic setting and groundwater / NAPL conditions within GMA 1. The results of this review resulted in very few modifications to the baseline program identified for GMA 1.

This section describes GE's proposed baseline monitoring program for groundwater and NAPL at GMA 1, including the modifications to the baseline program identified in Attachment H to the SOW. Specifically, Section 4.2 presents GE's proposed baseline monitoring activities for groundwater at GMA 1, including the evaluations conducted to support those proposed activities, while Section 4.3 describes the NAPL monitoring and recovery activities proposed to be conducted during the baseline monitoring period. Section 4.4 outlines GE's proposed data assessment activities, and Section 4.5 describes the required notification and reporting activities associated with performance of the baseline monitoring activities, as well as the requirements relating to interim response actions, in accordance with Attachment H to the SOW.

The Data Quality Objectives (DQOs) for this proposed baseline monitoring program are: (a) to obtain the necessary data on groundwater conditions and NAPL in GMA 1 to meet the baseline monitoring requirements specified in Attachment H to the SOW; (b) to provide a baseline database for the subsequent development and implementation of a long-term monitoring program for this GMA and ultimately for evaluating the impact of soil-related response actions on groundwater quality and assessing achievement of the groundwater quality and NAPL Performance Standards described in Section 3; and (c) to determine the need for interim response actions to the extent required by Attachment H to the SOW.

The baseline monitoring activities and modifications to existing/previously proposed programs discussed in this section are intended to replace any such ongoing or previously proposed activities. Specifically, the baseline groundwater monitoring program outlined in Section 4.2 supersedes the preliminary program presented in Attachment H to the SOW, and the routine NAPL monitoring and recovery modifications proposed in Section 4.3 supersede

current activities and/or schedules, where applicable. Also, GE proposes to discontinue semi-annual groundwater sampling and analysis activities at the groundwater recharge pond area wells 22, 43, 44, and P-6 (discussed in Section 2.6), as the proposed baseline monitoring program will provide adequate groundwater analytical data for this area. Finally, regarding the replacement of monitoring wells which have been or will be removed in conjunction with Merrill Road reconstruction activities, GE proposes that only selected wells be replaced as described in Sections 4.3.1 and 4.3.2 below. GE further proposes that no laboratory analyses be conducted on soil samples collected during well installation. Although such soil sampling and analyses were previously specified in conditional approval letters from EPA and MDEP dated July 3, 1997 and August 21, 1997, these specifications were made prior to negotiation and execution of the CD and are considered to be superseded by the protocols for additional soil investigations described in Attachment D to the SOW (i.e., grid-based soil sampling).

4.2 Baseline Groundwater Monitoring

4.2.1 Evaluations and Overview

To develop the baseline groundwater monitoring program for GMA 1, GE reviewed and evaluated a number of factors. It began by reviewing the baseline groundwater monitoring program described in Attachment H to the SOW and considering the need for additions or modifications to that program. In this connection, GE considered appropriate locations for both sentinel wells and perimeter wells, as described in Attachment H to the SOW. According to Attachment H, sentinel wells for GMA 1 fall into two categories:

- GW-2 Sentinel Wells -- wells located within or close to areas where the GW-2 groundwater classification applies (i.e., shallow groundwater near occupied buildings); these wells are to be considered compliance points for the GW-2 standards; and

- General and Source Area Sentinel Wells -- wells located near known contaminant sources and spatially distributed across the GMA to monitor groundwater downgradient of known sources and to provide additional areal coverage to monitor for previously undetected source areas.

Sentinel wells will not be considered compliance points for the GW-3 standards. However, general/source area sentinel wells will be used to provide an early indication of groundwater conditions that could exceed GW-3 standards in the downgradient perimeter wells.

Perimeter wells are those intended to monitor groundwater quality along the outer boundary of the GMA. All downgradient perimeter wells are to be used as compliance points for the GW-3 standards. Upgradient perimeter wells are generally intended to assess the quality of groundwater entering the GMA. However, in some cases, perimeter wells may be located near or upgradient of existing occupies buildings where GW-2 classification criteria apply, and will be monitored for compliance with the GW-2 standards. The criteria for selecting locations for sentinel and perimeter monitoring wells are described in Section 5.1 of Attachment H to the SOW. (Attachment H also provides for the establishment, where applicable, of natural attenuation monitoring wells to assess intrinsic and natural processes that may mitigate groundwater impacts. However, as recognized in Attachment H, these types of wells are not currently applicable to GMA 1.)

In this context, GE evaluated the usability of existing monitoring wells to serve as sentinel wells (either GW-2 sentinel wells or general/source area sentinel wells) or perimeter wells for the baseline monitoring program. In doing so, GE considered the locations of these wells relative to occupied buildings, to known/suspected source areas, and to the GMA boundary; and for those wells that were appropriately located, GE considered the depth and length of their well screens to ensure that they would monitor the appropriate groundwater. Based on this evaluation, and taking into account the wells preliminarily identified in Attachment H to the SOW for the baseline monitoring program, GE selected the existing wells that could serve as sentinel or perimeter wells in this program and identified locations for the installation of additional wells to fill in any gaps.

In addition, GE evaluated the distribution of monitoring well pair clusters and the need for establishing additional such clusters to assess achievement of the GW-2 and GW-3 standards. While a few such paired clusters were selected, there is no need for widespread use of such clusters at GMA 1, because both the GW-2 and the GW-3 standards at this GMA apply to relatively shallow groundwater (i.e., groundwater within 15 feet of the ground surface near occupied buildings or groundwater that could discharge to surface water).

Based on the above-described evaluations, a baseline groundwater monitoring program consisting of 55 existing monitoring wells and 7 new monitoring wells was selected for GMA 1. The locations of these wells, along with their designation as GW-2 sentinel wells, general/source area sentinel wells, or perimeter wells, are depicted on Figure 10 and presented in Table 4. Prior to commencement of this baseline monitoring program, an additional well inventory/inspection will be conducted for each well included in the program to provide an update on the condition of the wells. Following completion of this inventory, GE will complete any repairs or resurveying that may be required. If necessary, GE may propose to abandon and replace certain wells or to substitute other wells into the

program, depending on observations made during this additional well inventory. Any such proposal will be submitted to EPA in an addendum to this GMA 1 Baseline Monitoring Proposal.

In accordance with Attachment H to the SOW, this baseline monitoring program will be conducted over a period of at least two years and will include water level monitoring on a quarterly basis and groundwater sampling and analysis on a semi-annual basis. A further and more specific discussion of the proposed baseline monitoring activities for GW-2 and GW-3 groundwater is presented below. All well installation activities for the new wells and all groundwater measurement, sampling, and analysis activities will be conducted in accordance with the procedures set out in GE's Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), as such plan is approved by EPA. (This plan was submitted by GE in January 2000 and is currently undergoing EPA review).

4.2.2 GW-2 Monitoring

To establish the GW-2 sentinel and perimeter wells, GE has evaluated the presence of relatively shallow groundwater (within 15 feet below the ground surface) in the vicinity (within 30 feet) of existing occupied buildings, and has selected representative locations within or close to such areas for the GW-2 wells. Twenty-two such wells have been selected, as identified in Table 4 and on Figure 10. It should be noted that some of these wells are in fact located more than 30 feet from an existing occupied building. Such wells will initially be used as compliance points for the GW-2 standards. However, if exceedances of GW-2 standards are observed in these wells, GE will consider installing new wells closer (i.e., within 30 feet of) the target building(s) in question, and if appropriate, will propose such new wells to EPA for approval. Upon EPA approval, any such newly installed wells will be utilized as GW-2 sentinel wells, in place of the former wells, for the remainder of the baseline monitoring program.

All GW-2 sentinel and perimeter wells will initially be subject to sampling and analysis for the VOCs listed in Appendix IX of 40 CFR Part 264 plus 2-chloroethylvinyl ether. As the baseline monitoring program proceeds, GE may propose to reduce this analyte list at certain well locations if appropriate.

As previously mentioned, the baseline monitoring activities proposed herein have been slightly modified relative to the scope of activities identified in Attachment H to the SOW. Specific to monitoring related to GW-2 groundwater, the following modifications have been incorporated into this GMA 1 Baseline Monitoring Proposal:

- Substitution of well ES1-11 for well ES1-27. This change is proposed because the average depth to water at well ES1-27 was determined to be greater than 15 feet below grade. (As discussed in Section 4.2.3, well ES1-27 has been abandoned due to Merrill Road reconstruction activities, but will be replaced with a new monitoring well, which will be monitored as a general/source area sentinel well.)

- Elimination of well RF-4 as a GW-2 sentinel well. This change is proposed because the average depth to water at well RF-4 was determined to be greater than 15 feet below grade. There are no suitable substitutes for this well, due to the general relatively deep (i.e., greater than 15 feet) depth to groundwater in this area (see Figure 10). As discussed in Section 4.2.3, well RF-4 will be monitored as a GW-3 perimeter well.

- Addition of wells for evaluation of potential preferential pathways. Based on an evaluation of potential preferential pathways at the GE facility near occupied buildings, some additional wells were proposed for GW-2 compliance monitoring. As discussed further in Section 4.2.5, three wells (ES1-23, RF-3, and PROP-18) previously designated as GW-3 sentinel/perimeter wells have also been designated for GW-2 compliance, as shown on Figure 10 and in Table 4.

In addition to the wells identified as GW-2 sentinel/perimeter wells on Table 4 and Figure 10, additional GW-2 sentinel wells may be proposed if, prior to or during the baseline monitoring program, additional buildings are constructed or now-vacant buildings are occupied at GMA 1.

4.2.3 GW-3 Monitoring

The existing and proposed wells established to monitor GW-3 groundwater fall into two categories:

- Perimeter Wells -- wells located near the boundary of the GMA. All downgradient perimeter wells will be considered compliance points for the GW-3 standards, while upgradient perimeter wells designated for GW-3 monitoring will be used to assess the quality of groundwater entering the GMA. (In addition, as noted above and shown in Table 4 and on Figure 10, a couple of upgradient perimeter wells located near existing buildings have been established for GW-2 compliance rather than GW-3 monitoring, and some downgradient perimeter wells will be used for both GW-2 and GW-3 compliance.)

- General/Source Area Sentinel Wells -- wells that are spatially distributed across the GMA to monitor groundwater downgradient of known/suspected sources and to provide areal coverage to monitor for potential unknown sources.

The baseline monitoring program for GW-3 monitoring will include 34 perimeter wells and 13 general/source area sentinel wells. The locations of these wells are identified in Table 4 and on Figure 10.

Initially, these wells will be monitored for all Appendix IX+3 constituents. However, as the baseline monitoring program proceeds, GE may propose to reduce the analyte list at certain well locations if appropriate. For example, depending on the results of the initial round of sampling, GE may propose to eliminate analysis for pesticides and herbicides from future sampling rounds at most of the monitoring wells in this GMA. The existing groundwater monitoring database indicates that such compounds have been detected only in relatively few wells at this GMA and, even when found, are generally present at low concentrations (see Tables C-4a and C-4b in Appendix C).

As previously mentioned, the baseline monitoring activities proposed herein has been slightly modified relative to the scope of activities identified in Attachment H to the SOW. Specific to monitoring related to GW-3 groundwater, the following modifications have been incorporated into this GMA 1 Baseline Monitoring Proposal:

- Replacement of well ES1-27. As previously mentioned, this well has been removed from consideration for GW-2 compliance monitoring and replaced by well ES1-11, but is still proposed for monitoring as a general/source area sentinel well. However, this well has recently been abandoned in conjunction with the Merrill Road reconstruction activities. As verbally discussed with EPA and MDEP on March 22, 2000, GE will install a replacement well, designated as ES1-27R on Figure 10. This well will be added to the baseline monitoring program as a general/source area sentinel well upon completion of the construction in this area.

- Substitution of well ES2-2A for well ES2-2 as a perimeter well to be monitored for compliance with GW-3 standards. This change is proposed because the well screen at well ES2-2 was determined to be significantly below the water table, while well ES2-2A is screened at the water table in the same well cluster.

4.2.4 Monitoring for Potential Future Vault Areas

The criteria for placement of sentinel wells, set forth in Attachment H to the SOW, include monitoring of areas downgradient of buildings where demolition debris may be placed in the building foundations. Under the CD and

the SOW, GE may place demolition debris in the foundations of Building 31 (in the 30s Complex) and/or Buildings 2, 3C, 12, 12X, and 12Y (in East Street Area 2-North) within this GMA. Review of the proposed baseline network of monitoring wells (Figure 10) indicates that network provides general coverage of areas downgradient of these buildings. However, if and when GE submits a specific work plan for use of one or more of these buildings for placement of demolition debris in the foundations, it will evaluate the need for more site-specific downgradient monitoring wells for such building(s) and, if appropriate, will include a proposal for such additional wells in that work plan.

4.2.5 Evaluation of Potential Preferential Pathways Near Buildings

GE has also evaluated whether additional GW-2 monitoring is necessary to address potential preferential pathways at the GE facility near occupied or potentially occupied buildings. This evaluation was conducted for potential preferential pathways which are situated below the high groundwater elevation water table and are located near buildings. These potential preferential pathways are depicted on Figure 10. Based on this evaluation, three wells (ES1-23, RF-3, and PROP-18) that were previously proposed for GW-3 monitoring have also been proposed for GW-2 compliance monitoring. A number of wells (17A, 52, ESI-8, and ESI-14) which were previously proposed for GW-2 compliance monitoring, due to their proximity to occupied or potentially occupied buildings are also well positioned to monitor along potential preferential pathways. As shown on Figure 10, the monitoring wells proposed for inclusion in this baseline monitoring program will provide adequate coverage of such potential preferential pathways.

4.2.6 Hydraulic Monitoring

In accordance with Attachment H to the SOW, during the baseline monitoring period, GE will perform comprehensive quarterly measurements of groundwater elevations at the wells proposed for groundwater quality monitoring in GMA 1 (listed in Table 4). In addition, GE will perform surface water elevation monitoring at a number of locations within the Housatonic River between the Newell Street and Lyman Street Bridges, as well as at Silver Lake. This surface water elevation monitoring will be performed at staff gauges located at:

- East Street Area 2 - South, near the 64X recovery system
- Lyman Street Area, south of the parking lot; and
- Silver Lake, west of the 30s Complex.

These groundwater and surface water elevation measurements will be made in accordance with the procedures in the FSP/QAPP, as approved by EPA.

Furthermore, groundwater elevation data from other ongoing monitoring programs -- i.e., the monitoring programs designed to address NAPL (discussed in Section 4.3 below) -- will be reviewed as appropriate to complement the groundwater elevation data from the baseline quarterly monitoring events. In particular, groundwater elevation data from piezometers located near the Housatonic River, active pumping wells, and shallow/deep well pairs will be examined.

Monitoring well pairs and clusters will be utilized to establish vertical hydraulic gradients. Although not all wells will be sampled and analyzed at every well cluster as part of the baseline monitoring program, many will be monitored for groundwater elevations to provide additional information on vertical gradients. These clusters include RF-3/PROP-18, ES2-2/ES2-2A, LSSC-16S/LSSC-16I, LSSC-34S/LSSC-34I, MW-1S/MW-1D, N2SC-9S/N2SC-9I, and ES2-1/ES2-6, among others. At locations where the applicable GW-2 or GW-3 standards are exceeded, vertical gradient data will be assessed as part of the process of determining whether to install and/or sample wells screened at other depths in a cluster.

An extensive amount of hydraulic conductivity data has already been collected at GMA 1, as shown on Figure 11. To provide more comprehensive coverage across GMA 1, GE proposes to conduct 13 additional hydraulic conductivity tests at the monitoring wells shown on Figure 11. Following initiation of the baseline monitoring program, additional hydraulic conductivity testing may be warranted at selected wells and/or well clusters if exceedances of the applicable GW-2 or GW-3 standards are detected and such hydraulic conductivity data have not already been collected. GE will propose additional hydraulic conductivity testing in future baseline monitoring program interim reports, if needed.

4.2.7 Proposed Assessment of Passive Diffusion Sampling Technique

Following the initial round of baseline monitoring, GE may propose to utilize the passive-diffusion bag sampling method at certain locations for the remaining portion of the baseline monitoring program where only VOC sampling and analysis is required. Passive-diffusion sampling of groundwater using a semipermeable membrane is a patented technology [U.S. Patent Number 5,804,743 held by Don A. Vroblesky (U.S. Geological Survey) and William T. Hyde (General Electric Company)]. The method is based on the principle that VOCs in groundwater will migrate via

molecular diffusion through a semipermeable membrane such as polyethylene until the concentrations on either side of the membrane reach equilibrium. Analyte-free water sealed within a semipermeable passive-diffusion bag serves as the sample medium, which is placed in the open interval of a monitoring well and removed after an equilibration period. Passive-diffusion bags have been successfully benchmarked for many common VOCs, including aromatics and chlorinated ethenes and ethanes. A detailed protocol for the passive-diffusion bag sampling method for VOCs in groundwater will be included in a revised FSP/QAPP or presented in any specific proposal to utilize this method.

4.3 Baseline NAPL Monitoring

This section presents GE's proposal for the continued monitoring and recovery of NAPL in the pertinent RAAs within GMA 1 during the baseline monitoring period. It includes an assessment of the existing NAPL monitoring/recovery systems and programs in these areas and proposes certain modifications to those programs. It should be noted that the modifications proposed in this section take into account the reconstruction of Merrill Road, which has resulted in the destruction or abandonment of a number of the existing monitoring wells in the 20s Complex, East Street Area 1 - North, and East Street Area 2 - North. Where appropriate for the purpose of this NAPL monitoring program, GE proposes to replace such wells with replacement wells, as described below. The proposals described herein supersede any prior proposals regarding replacement of the wells affected by the Merrill Road reconstruction, as discussed in Section 4.1.

In addition, GE has evaluated the presence of NAPL in relatively shallow groundwater (within 15 feet below the ground surface) in the vicinity (within 30 feet) of occupied buildings to determine the need for additional NAPL sampling for GW-2 constituents in those areas. Based on this evaluation, including consideration of current NAPL extent and depth, it is concluded that there is no need for additional NAPL sampling to evaluate GW-2 constituents in such areas at this time, since adequate analytical data exist from each such NAPL area.

4.3.1 LNAPL at East Street Area 1 - North and South

The extent of LNAPL in this area has been well defined as a result of the ongoing monitoring programs described previously in Section 2.5.1. The two operating LNAPL recovery systems (northside and southside collection systems) are positioned in this area to recover the majority of the LNAPL associated with this area (see Figure 2). GE proposes that these recovery operations be continued as part of the GMA 1 baseline monitoring program without

modification. However, as explained previously in Section 2.5.1, GE is currently evaluating the potential for additional hydraulic control in this area using wells 34 and 72.

In addition to maintaining the current recovery operations in this area, GE proposes that overall the number of monitoring wells included in the semi-annual monitoring program be reduced from 67 to 37 wells, with slight modifications being made to the list of wells subject to future monitoring. The wells proposed to be added or removed from the current semi-annual oil monitoring are listed in Table 5, along with the supporting rationale. Most of the wells proposed to be removed from the program were utilized primarily to generate groundwater elevation contour maps. However, the quarterly monitoring included in this proposed baseline monitoring program (which includes monitoring at nine wells in this area, three of which are not currently involved in the semi-annual program) will adequately support the preparation of groundwater elevation contour maps for the entirety of GMA 1 (including the former East Street Area 1). Additionally, wells in this area have been monitored regularly since the early 1980s and an extensive groundwater database exists for this area. Wells which are proposed to be retained in this program are generally located in the vicinity of the known extent of LNAPL, which is confined to small pockets located along the north and south sides of East Street.

Other modifications to the list of wells subject to future monitoring are based on elimination of duplicative monitoring (i.e., two or more proximate wells being monitored when less would suffice) and/or loss of wells due to the reconstruction of Merrill Road. These modifications are also summarized in Table 5.

In addition to the activities described above GE also proposes to continue the ongoing monthly LNAPL monitoring and removal (if present) at six wells (34, 52, 72, 105, 106, 131). Results of this monitoring will continue to be presented in monthly and semi-annual reports. Modifications to the monitoring conducted in the vicinity of wells 34 and 72 may be proposed following the evaluation of the results of the proposed hydrologic assessment at this location.

4.3.2 NAPL at East Street Area 2 - South and North, and 20s, 30s, and 40s Complexes

As described previously in Section 2.5.2, this combined area (formerly known as East Street Area 2) has been subject to regular monitoring for many years, and that monitoring is ongoing. As at East Street Area 1, the extent of NAPL in this area has been well defined as a result of these monitoring programs. The various recovery systems operating in this area are effectively containing and recovering the NAPL in this area. Therefore, GE proposes that these

activities be continued without modification. However, GE proposes to conduct NAPL removal/recovery testing at a small LNAPL area located to the south of Buildings 64 and 66, specifically at wells 13, 14, and 15R. This test will involve manual removal of LNAPL at the wells on a regular basis (initially hourly, with adjustments to be made as the test progresses), with subsequent monitoring of LNAPL recovery. The data obtained during this test will be used to evaluate the feasibility of installing an automated pumping system in this area and to determine the specifications for recovery equipment and approximate pumping rates (if appropriate). After completion of the field testing, GE will submit a report presenting the results and making recommendations for future activities, if appropriate.

In addition to maintaining the above-described recovery operations in this area, GE proposes that the total number of monitoring wells included in the semi-annual monitoring program be reduced, with slight modifications being made to the list of wells subject to future monitoring. The wells proposed to be added or removed from the current semi-annual oil monitoring are listed in Table 5, along with the supporting rationale. Most of the wells proposed to be removed from the program were utilized primarily in the generation of groundwater elevation contour maps. However, the quarterly monitoring included in this proposed baseline monitoring program will produce groundwater elevation contour maps for the entirety of GMA 1 (including the areas discussed in this section). Additionally, an extensive database exists since regular groundwater monitoring has been performed for this area since the early 1980s. This will adequately replace the site-specific water table maps previously prepared under the semi-annual program. Wells proposed to be retained in this program are generally located near the edges of the known NAPL areas or at areas where NAPL thicknesses have historically been the greatest.

Additionally, as at East Street Area 1, multiple wells are currently being monitored at areas where a single well would provide adequate coverage for the purposes of the semi-annual monitoring program. In these cases, well screen placement data and recent well inventories were examined to select the most suitable well to retain in the program. In other cases, multiple adjacent wells screened at variable depths will be monitored on a quarterly basis to provide vertical gradient data in conjunction with the quarterly groundwater elevation monitoring in the baseline program. These wells are also identified in Table 5.

GE also proposes several changes to the ongoing weekly and monthly monitoring programs at this combined area. As indicated in Table 5, a number of wells are proposed to be removed from monitoring programs due to a historical lack of observed NAPL presence or a screen placement that is inconsistent with the intended monitoring goal. The monitoring frequency is proposed to be modified at certain locations which are within known NAPL areas, but near existing NAPL recovery locations or otherwise actively contained (e.g., within sheetpile containment barrier areas,

hydraulically controlled by recharge pond activities, etc.), and also at locations where NAPL has rarely been detected. Monitoring is not proposed to be discontinued at most of these locations, but merely reduced (generally shifting from weekly to monthly monitoring, or from monthly to quarterly monitoring) based on the existing monitoring data and recent source control measures.

Several monitoring wells were removed from this area during the reconstruction of Merrill Road. Many of the wells were located near the edges of the known NAPL, but some of them were well outside the historic NAPL limits or located in areas which can be monitored by other wells. GE proposes the replacement of these wells only at locations which will provide significant information regarding the presence and extent of NAPL which cannot be obtained from other existing monitoring wells. These wells are identified in Table 5.

4.3.3 Lyman Street Area

The effectiveness of the NAPL recovery measures at the Lyman Street Area is evaluated on an annual basis. Based on the results of the most recent evaluation completed for the period between August 1998 and July 1999, as well as additional NAPL removal assessments conducted in this area as part of the source control activities being performed for the Upper ½-Mile Reach of the Housatonic River, no additions or modifications are recommended to the active NAPL recovery operations in this area.

Several changes are proposed to the ongoing weekly and monthly monitoring programs at the Lyman Street Area. However, only four wells are proposed to be removed from monitoring programs, while reduced monitoring frequencies are proposed at several other locations (as indicated in Table 5). These modifications are proposed at various locations which generally fall into the following categories:

- Wells which are within known NAPL areas but near existing active NAPL recovery wells, and within the area which will be actively contained by the installation of a future sheetpile containment barrier;

- Wells where limited NAPL quantities are typically observed or recovered during the current periodic monitoring events; and/or

- Wells located outside of the known extent of NAPL, where other wells exist between the subject well and the edge of NAPL.

In addition, monitoring at several well points located along the riverbank in this area (P-1 through P-7) will continue until the installation of the future sheetpile containment barrier. This installation, and possibly other response actions to be conducted along the riverbank in this area, will likely require the removal of some or all of these well points. Following the completion of these activities, GE will re-evaluate the riverbank monitoring program and propose new or replacement monitoring locations in this area, as appropriate.

4.3.4 Newell Street Area II

Automated NAPL recovery has been underway at Newell Street Area II for a relatively short time, and the installation of additional recovery wells has recently been proposed, as described in Section 2.5.4. Therefore, as part of the present proposal, no additions or modifications are recommended to the active NAPL recovery operations in this area. Any modifications will be proposed within the context of the ongoing source control activities at this area.

Minor changes are proposed to the ongoing weekly monitoring programs at this area, as indicated in Table 5. Two wells (NS-18 and NS-19) are proposed to be removed from the quarterly monitoring program. Reduced monitoring frequencies are also proposed at wells N2SC-8, NS-33, NS-34, NS-35, NS-36, and NS-37, based on recent monitoring results which indicate that weekly monitoring is not necessary at these locations. These wells are located outside the known extent of NAPL, which is adequately monitored by other wells.

4.4 Data Quality Assessment

As discussed in Section 2.7 above, the existing groundwater data from GMA 1 have not been fully reviewed for data quality because those data are not being considered at the present time for the purpose of achieving the groundwater quality Performance Standards or for proposals to limit the constituents to be analyzed for in the baseline groundwater monitoring program. In the future, GE may conduct a more thorough assessment of the quality of historical groundwater data at selected locations in support of modifications which may be proposed to the baseline or long-term monitoring programs. GE will present the results of any such data quality assessments in conjunction with the applicable proposals for modification.

All future groundwater analytical data collected during the baseline monitoring program will undergo data validation in accordance with the applicable procedures set forth in the FSP/QAPP, as that document is approved

by EPA. The results will be presented in the pertinent reports submitted on the baseline monitoring program, as described in the next section.

4.5 Notification, Reporting, and Interim Response Actions

Sections 6.2 and 6.3 of Attachment H to the SOW establish certain requirements relating to GE's notification to EPA and MDEP (the Agencies) of certain findings during the course of the baseline monitoring program and relating to GE's submittal of reports on the baseline monitoring program after each round of groundwater quality monitoring (Baseline Assessment Interim Reports) and at the conclusion of the baseline monitoring program (Baseline Assessment Final Report). As also specified in those sections, these notifications and reports are required, in some circumstances, to include proposals for interim response actions to address certain groundwater or NAPL-related issues. This section describes the requirements of Attachment H to the SOW for such notifications, reporting, and proposals for interim response actions. It should be noted that, although some of these notification and reporting requirements are consistent with the MCP's reporting requirements for releases to surface water or groundwater, the notification and reporting requirements described below are limited to those set forth in Attachment H to the SOW; they do not supersede or negate the MCP's reporting requirements or any other applicable reporting requirements under federal or state law.

4.5.1 NAPL-Related Notifications

During the baseline monitoring program, if NAPL is observed to be discharging to surface water and creating a sheen on the water in a location in which such NAPL discharge was not previously observed or measures are not in place to effectively contain the discharge, GE will notify EPA and MDEP within two hours of obtaining knowledge of such observation. This will be followed by written notice to EPA within seven days. The written notification will include a proposal to EPA for interim response actions to contain such discharge. Upon EPA approval, GE will conduct the approved interim response actions to contain the NAPL discharge.

If NAPL is observed to be discharging to surface water or creating a sheen on the water in a location in which such NAPL discharge was previously observed and reported to EPA and measures are in place to effectively contain the sheen, GE will notify EPA of the continued presence of such NAPL in the next monthly progress report for overall work at the Site.

If a NAPL thickness of greater than or equal to ½-inch is observed in any monitoring well, GE will notify EPA and MDEP within 72 hours of obtaining knowledge of such a condition, unless such conditions are consistent with the types, nature, and quantities of NAPL which were previously observed and reported to the Agencies. This notification will be followed by written notice to the EPA within 60 days. The written notification will include a proposal to EPA for interim response actions to be conducted, which may include NAPL sampling, additional assessment/monitoring, or NAPL removal activities. Upon EPA approval, GE will conduct the approved interim response actions. If a NAPL thickness of greater than or equal to 1/8-inch, but less than ½-inch is observed in a monitoring well, GE will notify EPA and MDEP in the next monthly progress report, unless the results are consistent with the types, nature, and quantities of NAPL which have previously been observed and reported to the Agencies.

4.5.2 Groundwater-Related Notifications

Upon obtaining knowledge of sampling data from a well containing category GW-2 groundwater within 30 feet of a school or occupied residential structure and having a total VOC concentration equal to or greater than 5 parts per million, GE will notify EPA and MDEP within 72 hours unless such exceedance was previously observed and reported to EPA. GE will provide the data from each such event in the next monthly progress report for overall work at the Site. Subsequent exceedances for a given well will also be indicated in the next monthly progress report for the Site.

If an exceedance of a groundwater Upper Concentration Limit (UCL), as set forth in the MCP (310 CMR 40.0996(5)), is indicated in a groundwater sample from any monitoring well, and such an exceedance was not previously observed and reported to EPA, GE will notify EPA and MDEP within 14 days of obtaining knowledge of such results. (For convenience, the UCLs are listed, along with the Method 1 GW-2 and GW-3 standards, in Appendix D.) GE will also provide the data and identify specifically each such exceedance in the next monthly progress report for overall work at the Site. Subsequent exceedances of a UCL for a given well will be identified in the next monthly report. The monthly progress report for overall work at the Site will also identify any wells which were sampled and provide the sampling results for all constituents which exceeded the applicable GW-2 or GW-3 standards.

4.5.3 Baseline Assessment Interim Reports

Within 60 days of the receipt of data from each semi-annual round of groundwater quality monitoring at GMA 1, GE will prepare and submit a summary report describing the field activities and presenting the monitoring results from that round and the prior water level monitoring round. GE will also provide an electronic submittal of the analytical and locational (e.g., X-Y-Z coordinates) data for the round being reported in a format compatible for entry into an ArcInfo GIS System.

Each such summary report will compare the results from that event to the prior data from the GMA and also to the Method 1 (or 2) GW-2 or GW-3 standards at applicable well locations. If the sampling results for GW-2 compliance wells indicate: (1) an exceedance of the Method 1 (or 2) GW-2 standards in a well in which such exceedance had not previously been found; or (2) the GW-2 standard has previously been exceeded and groundwater concentration is greater than or equal to 5 ppm total VOCs (if such an exceedance was not previously addressed), GE will propose appropriate interim response actions. These response actions may include: resampling of the groundwater; increasing the sampling frequency to quarterly intervals; additional well installation (including sampling and analysis); soil gas sampling; modeling of potential volatilization of chemicals from the groundwater to the indoor air of the nearby occupied buildings; sampling of the indoor air of such buildings; an evaluation of the potential risks related to volatilization to such indoor air; the development of a risk-based alternative GW-2 standard; and/or active response actions, including, but not limited to, containment, recovery, or treatment of impacted groundwater and/or NAPL.

For sampling results that indicate an exceedance of Method 1 (or 2) GW-3 standards at downgradient perimeter monitoring wells in a well in which: (1) such exceedance had not previously been found; or (2) the GW-3 standard (Method 1 or 2) has previously been exceeded and the groundwater concentration is greater than or equal to 100 times the GW-3 standard (if such exceedance was not previously addressed), GE will propose interim response actions, which may include: further assessment activities such as resampling, increasing the sampling frequency to quarterly intervals, additional well installation (including sampling and analysis), and/or continuing the baseline monitoring program; active response actions, including, but not limited to, containment, recovery, or treatment of impacted groundwater; and/or the conduct of a site-specific risk evaluation (taking into account the impacts on adjacent surface water, sediments, or biota) and the proposal of alternative risk-based GW-3 Performance Standards. Upon EPA approval, GE will implement the approved interim response actions.

In addition, in any interim summary report, GE may propose, consistent with the requirements of Attachment H to the SOW, modifications to the monitoring frequency and specific wells to be monitored and/or the constituents to be analyzed for during the remaining sampling rounds in the baseline program, as well as any modifications to NAPL recovery systems. Upon EPA approval, GE will implement such modifications for the remaining rounds.

If the two-year "baseline" period ends prior to the completion of soil-related response actions at all the RAAs in GMA 1, GE may submit a proposal to EPA for approval 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.

4.5.4 Baseline Assessment Final Report and Long-Term Monitoring Program Proposal

Within 75 days of conclusion of the GMA 1 baseline field investigation program, GE will submit a Baseline Assessment Final Report for this GMA to EPA for review and approval. This report will also include a proposal to EPA for a Long-Term Monitoring Program for GMA 1.

The final report on the GMA 1 baseline monitoring program will include:

- An update of the current understanding of hydrogeologic conditions and the extent of contamination, including a statistical assessment of the "baseline" data and other historical data, if appropriate, and a comparison to the Performance Standards;
- An evaluation of the spatial distribution of constituents within the GMA and the actual migration or potential for migration of such constituents outside the GMA, including an evaluation of groundwater travel time to any receptor (e.g. surface water body/building);
- Identification of the presence or potential presence of previously unidentified sources of groundwater contamination;
- An assessment of the adequacy of the selected monitoring locations;
- A re-assessment of the constituents, locations, and frequencies to be subject to future monitoring;
- Identification of areas where the GW-2 Performance Standards apply in addition to the GW-3 Performance Standards;
- Identification of the specific wells to be used to measure compliance with the NAPL, GW-2 and GW-3 Performance Standards;

- An evaluation of variations in groundwater quality from event to event to identify and assess sampling data variability and potential causes for the variability, including seasonal influences;
- An evaluation of the need for follow-up investigations or assessments, interim response actions, or NAPL recovery modifications/additions; and
- A statement of the basis for GE's proposal to EPA for approval of a Long-Term Monitoring Program and/or additional response actions.

The Long-Term Monitoring Program Proposal for GMA 1 will include:

- The specific soil RAAs to be subject to the monitoring (if different from these currently included in GMA 1), along with the supporting rationale;
- The monitoring locations, along with the supporting rationale;
- A schedule for plan implementation, including reporting;
- The frequency of future monitoring events;
- The constituents to be subject to analysis;
- Descriptions of statistical techniques to be employed to evaluate data trends;
- Proposal for any additional investigations or assessments, interim response actions, or NAPL recovery modifications/additions;
- Any proposal for risk-based alternative GW-2 or GW-3 Performance Standards; and
- An outline of the Monitoring Event Evaluation Reports to be submitted under the long-term monitoring program.

5. Schedule

5.1 General

Schedule requirements related to the baseline monitoring programs were generally identified in Attachment H to the SOW. This section provides a schedule specifically for conducting the GMA 1 baseline monitoring program.

5.2 Field Activities Schedule

The baseline monitoring program for GMA 1 will begin following EPA's approval of this Baseline Monitoring Proposal or entry of the CD by the U.S. District Court, whichever is later. During the baseline monitoring period, GE proposes to continue to conduct all ongoing NAPL-related monitoring programs within this GMA according to their previously approved schedules (as described in Section 2.5), with the modifications proposed herein. Any approved modifications to these monitoring programs will be initiated during the next scheduled monitoring event(s) following the later of EPA's approval of this Baseline Monitoring Proposal or the entry of the CD.

GE proposes to complete the inventory of wells proposed for sampling and installation of the additional new monitoring wells described in this Baseline Monitoring Proposal within the later of (a) 60 days after EPA's approval of this Proposal or (b) 60 days after entry of the CD by the U.S. District Court, subject to obtaining the necessary Access Agreements with the property owners in a timely manner. If GE is unable to obtain Access Agreements from particular property owners after using "best efforts" (as defined in the CD) to do so, it will so advise EPA and MDEP and seek their assistance in obtaining such agreements pursuant to Paragraph 60.f(i) of the CD. If delays in obtaining Access Agreements will cause a delay in the schedule proposed above, GE will notify the Agencies and propose for EPA approval a revised schedule for completing the additional monitoring well installations and initiating the baseline monitoring program. It should be noted that installation of replacement wells located within the Merrill Road reconstruction area will be contingent upon the completion of road construction activities in that area. Following installation and development of the proposed new baseline monitoring program wells, GE will conduct hydraulic conductivity testing at the selected new and existing wells illustrated on Figure 11.

GE proposes to conduct quarterly groundwater level monitoring at the baseline program wells described herein during periods representing winter, spring, summer, and fall conditions for a two-year period beginning with the first of these time periods following the installation of all approved additional baseline monitoring wells, as discussed above. GE will attempt to obtain the quarterly groundwater elevation data during the months of January, April, July, and

October, but may, on occasion, collect these measurements at the end of the prior month or the beginning of the next month from the target date if scheduling issues or other unforseen factors necessitate alterations to the schedule.

GE proposes to conduct semi-annual groundwater quality monitoring at the baseline program wells described herein during periods representing spring and fall conditions for a two-year period, coinciding with the spring and fall groundwater elevation monitoring events discussed in the previous paragraph. The time periods for semi-annual water quality sampling were chosen to adequately assess seasonal variation which may occur during the baseline sampling period. This schedule was selected to obtain data during presumed annual high and low water table conditions. GE will attempt to collect groundwater analytical samples during the months of April and October, but may, on occasion, conduct these sampling events at the end of the prior month or the beginning of the next month from the target date if scheduling issues or other unforseen factors necessitate alterations to the schedule. GE will make best efforts to avoid scheduling groundwater monitoring at times and locations at which the baseline data could be impacted by ongoing soil/sediment response actions within GMA 1. In addition, GE may propose a modified sampling schedule for selected wells following evaluation of the analytical data as the baseline monitoring program progresses.

5.3 Monthly CD Reporting

In the monthly progress reports for overall work at the Site, GE will continue to provide the results from ongoing NAPL and groundwater monitoring and recovery programs for GMA 1. In addition, observations and results of the GMA 1 baseline monitoring program will be incorporated into the monthly progress reports as follows:

Following a quarterly groundwater elevation monitoring event, the following information will be added to the next monthly progress report for the Site:

- A listing of the wells which were monitored, and the depths from the well measuring point to groundwater and groundwater/NAPL interfaces (if present);

- A listing of the wells where a NAPL thickness of greater than or equal to 1/8-inch, but less than ½-inch was observed, unless the results are consistent with the types, nature, and quantities of NAPL which have previously been observed and reported to the Agencies; and

- A listing of locations where NAPL was observed to be discharging to any surface water and creating a sheen on the water in a location in which such NAPL discharge was previously observed and reported to EPA and measures are in place to effectively contain the sheen.

Following a semi-annual groundwater sampling event, the following information will be added to the next monthly progress report for the Site:

- Each of the items listed above for the associated quarterly groundwater elevation monitoring event; and

- A listing of the wells which were sampled during the event and the analyses to be conducted.

Following receipt of preliminary analytical results from a semi-annual groundwater sampling event, the following information will be added to the next monthly progress report for the Site:

- The analytical results from that monitoring event;

- An identification of any wells containing GW-2 groundwater in which the analytical results indicate an exceedance of an applicable GW-2 standard;

- An identification of any wells where the analytical data indicate an exceedance of a groundwater UCL; and

- An identification of any wells monitored for GW-3 groundwater in which the analytical data indicate an exceedance of an applicable GW-3 standard. These include not only the perimeter wells, but also, as an early warning mechanism, any of the general/source area sentinel wells.

5.4 Schedule for Submission of Baseline Assessment Reports

GE will submit a Baseline Assessment Interim Report on each semi-annual groundwater quality monitoring event within 60 days after the conclusion of that event. These reports will include the information described in Section 4.5.3 above. In addition, within 75 days after completion of the baseline monitoring program for GMA 1, GE will submit a Baseline Assessment Final Report and Long-Term Monitoring Program Proposal, which will contain the information described in Section 4.5.4 above. For purposes of the schedules for these submissions, GE believes that

a particular monitoring event will be concluded when GE has received the analytical data from that event, and that the overall baseline monitoring program for GMA 1 will be complete when GE has received the analytical data from the last groundwater monitoring event and such data have been validated.

Tables

TABLE 1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

SUMMARY OF EXISTING GROUNDWATER MONITORING PROGRAMS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS				
		SEMI-ANNUAL SAMPLING	SEMI-ANNUAL MONITORING	QUARTERLY MONITORING	MONTHLY MONITORING	WEEKLY MONITORING
95-17	40s Complex		X			
RF-04	40s Complex		X			
95-15	30s Complex		X			
95-16	30s Complex		X			
ES2-19	30s Complex		X			
RF-02	30s Complex		X			
RF-03	30s Complex		X			
RF-16	30s Complex		X			
60	20s Complex		X			
95-23	20s Complex		X			
CC	20s Complex		X			
EE	20s Complex		X			
FF	20s Complex		X			
GG	20s Complex		X			
HH	20s Complex		X			
II	20s Complex		X			
J	20s Complex		X			
JJ	20s Complex		X			
K	20s Complex		X			
KK	20s Complex		X			
LL	20s Complex		X			
MM	20s Complex		X			
N-R	20s Complex		X			
NN	20s Complex		X			
O-R	20s Complex		X			
OO	20s Complex		X			
PP	20s Complex		X			
QQ	20s Complex		X			
R	20s Complex		X			
U	20s Complex		X			
UU-R	20s Complex		X			
Y	20s Complex		X			
01R	East Street Area 2 - South		X			
2	East Street Area 2 - South		X		X	
5	East Street Area 2 - South				X	
05A	East Street Area 2 - South		X			
6	East Street Area 2 - South		X		X	
8	East Street Area 2 - South		X		X	
09R	East Street Area 2 - South		X			
10	East Street Area 2 - South		X			
11R	East Street Area 2 - South		X			
13	East Street Area 2 - South		X			X
14	East Street Area 2 - South		X			X
15R	East Street Area 2 - South		X			X
16R	East Street Area 2 - South		X			
17R	East Street Area 2 - South		X			
18	East Street Area 2 - South		X			

TABLE 1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

SUMMARY OF EXISTING GROUNDWATER MONITORING PROGRAMS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS				
		SEMI-ANNUAL SAMPLING	SEMI-ANNUAL MONITORING	QUARTERLY MONITORING	MONTHLY MONITORING	WEEKLY MONITORING
19	East Street Area 2 - South		X			
21	East Street Area 2 - South		X			
22	East Street Area 2 - South	X	X			
25	East Street Area 2 - South		X			
26	East Street Area 2 - South		X			
27	East Street Area 2 - South		X			
28	East Street Area 2 - South		X		X	
29	East Street Area 2 - South		X		X	
31	East Street Area 2 - South		X			
32	East Street Area 2 - South		X		X	
34	East Street Area 2 - South		X			
35	East Street Area 2 - South		X		X	
36	East Street Area 2 - South		X		X	
37	East Street Area 2 - South		X		X	
38	East Street Area 2 - South		X		X	
39	East Street Area 2 - South		X			
40R	East Street Area 2 - South		X		X (active pumping)	
42	East Street Area 2 - South		X			X
43	East Street Area 2 - South	X	X		X	
44	East Street Area 2 - South	X	X		X	
47	East Street Area 2 - South				X	
48	East Street Area 2 - South		X			X
49R	East Street Area 2 - South		X			X
49RR	East Street Area 2 - South		X			X
50	East Street Area 2 - South		X			X
51	East Street Area 2 - South		X		X	
52	East Street Area 2 - South		X			
53	East Street Area 2 - South		X			X
54	East Street Area 2 - South		X			X
55	East Street Area 2 - South		X			X
56	East Street Area 2 - South		X			X
57	East Street Area 2 - South		X			X
58	East Street Area 2 - South		X			X
59	East Street Area 2 - South		X			X
60	East Street Area 2 - South		X			
61	East Street Area 2 - South		X			
62	East Street Area 2 - South		X			
63	East Street Area 2 - South		X			X
64	East Street Area 2 - South		X		X	
64S2	East Street Area 2 - South		X			
64X (N)	East Street Area 2 - South		X			X
64X (S)	East Street Area 2 - South		X			X
64X (W)	East Street Area 2 - South					X
65	East Street Area 2 - South		X			
66	East Street Area 2 - South		X			X
95-01	East Street Area 2 - South		X			
95-02	East Street Area 2 - South		X			

TABLE 1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

SUMMARY OF EXISTING GROUNDWATER MONITORING PROGRAMS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS				
		SEMI-ANNUAL SAMPLING	SEMI-ANNUAL MONITORING	QUARTERLY MONITORING	MONTHLY MONITORING	WEEKLY MONITORING
95-04	East Street Area 2 - South		X			
95-05	East Street Area 2 - South		X			
95-06	East Street Area 2 - South		X			
95-07	East Street Area 2 - South		X			
95-09	East Street Area 2 - South		X			
95-19	East Street Area 2 - South		X			
95-25	East Street Area 2 - South		X			
C60	East Street Area 2 - South		X			
E2SC-03I	East Street Area 2 - South					X
E2SC-17	East Street Area 2 - South					X
E2SC-21	East Street Area 2 - South		X			
E2SC-22	East Street Area 2 - South		X			
E2SC-23	East Street Area 2 - South					X
E2SC-24	East Street Area 2 - South					X
E2SC-25	East Street Area 2 - South				X	
Eastern Caisson	East Street Area 2 - South		X			
3-6C-EB-25	East Street Area 2 - South					X
3-6C-EB-26	East Street Area 2 - South				X	
3-6C-EB-28	East Street Area 2 - South					X
3-6C-EB-29	East Street Area 2 - South				X	
ES2-01	East Street Area 2 - South				X	
ES2-02A	East Street Area 2 - South		X		X	
ES2-04	East Street Area 2 - South		X			
ES2-05	East Street Area 2 - South		X			
ES2-06	East Street Area 2 - South		X		X	
ES2-07	East Street Area 2 - South				X	
ES2-08	East Street Area 2 - South		X			
ES2-09	East Street Area 2 - South		X			
ES2-10	East Street Area 2 - South		X			
ES2-11	East Street Area 2 - South		X			
ES2-12	East Street Area 2 - South		X			
ES2-14	East Street Area 2 - South		X			
ES2-15	East Street Area 2 - South		X			
ES2-16	East Street Area 2 - South		X			
ES2-17	East Street Area 2 - South		X			X
ES2-18	East Street Area 2 - South		X			
P1	East Street Area 2 - South		X			
P2	East Street Area 2 - South		X			
P3	East Street Area 2 - South		X		X	
P3D	East Street Area 2 - South		X		X	
P4	East Street Area 2 - South		X			
P5	East Street Area 2 - South		X			
P6	East Street Area 2 - South	X	X			
P7	East Street Area 2 - South		X		X	
PZ-1S	East Street Area 2 - South					X
PZ-2S	East Street Area 2 - South				X	
PZ-4S	East Street Area 2 - South				X	

TABLE 1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

SUMMARY OF EXISTING GROUNDWATER MONITORING PROGRAMS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS				
		SEMI-ANNUAL SAMPLING	SEMI-ANNUAL MONITORING	QUARTERLY MONITORING	MONTHLY MONITORING	WEEKLY MONITORING
PZ-6S	East Street Area 2 - South					X
RB-01	East Street Area 2 - South				X	
RF-01	East Street Area 2 - South		X			
RW-3(X)	East Street Area 2 - South					X
TMP-1	East Street Area 2 - South					X
WP-01	East Street Area 2 - South					X
WP-06	East Street Area 2 - South					X
02-N	East Street Area 2 - North		X			
05-N	East Street Area 2 - North		X			X
06-N	East Street Area 2 - North		X			
09-N	East Street Area 2 - North		X			
11-N	East Street Area 2 - North		X			
13-N	East Street Area 2 - North		X			
14-N	East Street Area 2 - North		X			
16-N	East Street Area 2 - North		X			
17-N	East Street Area 2 - North		X			
17A	East Street Area 2 - North		X			
17C	East Street Area 2 - North		X			
19-N	East Street Area 2 - North		X			
20-N	East Street Area 2 - North		X			
21-N	East Street Area 2 - North		X			
22-N	East Street Area 2 - North		X			
23-N	East Street Area 2 - North		X			
24-N	East Street Area 2 - North		X			
27-N	East Street Area 2 - North		X			
31-N	East Street Area 2 - North		X			
95-12	East Street Area 2 - North		X			
95-20	East Street Area 2 - North		X			
A7	East Street Area 2 - North		X			
C1	East Street Area 2 - North		X			
ES1-01	East Street Area 2 - North		X			
ES1-04	East Street Area 2 - North		X			
ES1-05	East Street Area 2 - North		X			
ES1-06	East Street Area 2 - North		X			
ES1-10	East Street Area 2 - North		X			
ES1-11	East Street Area 2 - North		X			
ES1-18	East Street Area 2 - North		X			
ES1-19	East Street Area 2 - North		X			
ES1-20	East Street Area 2 - North		X			
ES1-21	East Street Area 2 - North		X			
ES1-22	East Street Area 2 - North		X			
ES1-25	East Street Area 2 - North		X			
ES1-27	East Street Area 2 - North		X			
ES1-29	East Street Area 2 - North		X			
RF-15	East Street Area 2 - North		X			
6	East Street Area 1 - North		X			
8	East Street Area 1 - North		X			

TABLE 1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

SUMMARY OF EXISTING GROUNDWATER MONITORING PROGRAMS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS				
		SEMI-ANNUAL SAMPLING	SEMI-ANNUAL MONITORING	QUARTERLY MONITORING	MONTHLY MONITORING	WEEKLY MONITORING
25	East Street Area 1 - North		X			
30	East Street Area 1 - North		X			
52	East Street Area 1 - North		X		X	
103	East Street Area 1 - North		X			
105	East Street Area 1 - North		X		X	
106	East Street Area 1 - North		X		X	
107	East Street Area 1 - North		X			
108A	East Street Area 1 - North		X			
109A	East Street Area 1 - North		X			
118	East Street Area 1 - North		X			
119	East Street Area 1 - North		X			
120	East Street Area 1 - North		X			
127	East Street Area 1 - North		X			
128	East Street Area 1 - North		X			
130	East Street Area 1 - North		X			
131	East Street Area 1 - North		X		X	
140	East Street Area 1 - North		X			
141	East Street Area 1 - North		X			
ES1-07	East Street Area 1 - North		X			
ES1-08	East Street Area 1 - North		X			
ES1-09	East Street Area 1 - North		X			
ES1-14	East Street Area 1 - North		X			
E-01	Lyman Street Area			X		
E-03	Lyman Street Area			X		
E-04	Lyman Street Area			X		
E-07	Lyman Street Area			X		
LS-02	Lyman Street Area					X
LS-04	Lyman Street Area					X
LS-10	Lyman Street Area			X		
LS-11	Lyman Street Area				X	
LS-12	Lyman Street Area					X
LS-13	Lyman Street Area			X		
LS-20	Lyman Street Area				X	
LS-21	Lyman Street Area					X
LS-24	Lyman Street Area				X	
LS-25	Lyman Street Area			X		
LS-28	Lyman Street Area			X		
LS-29	Lyman Street Area			X		
LS-30	Lyman Street Area					X
LS-31	Lyman Street Area					X
LS-32	Lyman Street Area					X
LS-33	Lyman Street Area					X
LS-34	Lyman Street Area					X
LS-35	Lyman Street Area				X	
LS-36	Lyman Street Area			X		
LS-37	Lyman Street Area			X		
LS-38	Lyman Street Area					X

TABLE 1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

SUMMARY OF EXISTING GROUNDWATER MONITORING PROGRAMS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS				
		SEMI-ANNUAL SAMPLING	SEMI-ANNUAL MONITORING	QUARTERLY MONITORING	MONTHLY MONITORING	WEEKLY MONITORING
LS-41	Lyman Street Area					X
LS-43	Lyman Street Area					X
LS-44	Lyman Street Area					X
LS-45	Lyman Street Area					X
LSSC-06	Lyman Street Area					X
LSSC-07	Lyman Street Area					3 times per week
LSSC-08S	Lyman Street Area					X
LSSC-16I	Lyman Street Area					X
LSSC-18	Lyman Street Area					X
LSSC-32	Lyman Street Area					X
LSSC-33	Lyman Street Area					X
LSSC-34I	Lyman Street Area					X
LSSC-34S	Lyman Street Area					X
P-1	Lyman Street Area					X
P-2	Lyman Street Area				X	
P-3	Lyman Street Area					X
P-4	Lyman Street Area					X
P-5	Lyman Street Area				X	
P-6	Lyman Street Area					X
P-7	Lyman Street Area					X
MW-1D	Newell Street Area II					X
MW-1S	Newell Street Area II					X
N2SC-01I	Newell Street Area II					X (active pumping)
N2SC-02	Newell Street Area II					X
N2SC-03I	Newell Street Area II					X
N2SC-03S	Newell Street Area II					X
N2SC-07	Newell Street Area II				X	
N2SC-08	Newell Street Area II					X
N2SC-09I	Newell Street Area II					X
N2SC-09S	Newell Street Area II					X
N2SC-11	Newell Street Area II				X	
N2SC-12	Newell Street Area II				X	
NS-01	Newell Street Area II			X		
NS-09	Newell Street Area II			X		
NS-10	Newell Street Area II					X
NS-11	Newell Street Area II			X		
NS-15	Newell Street Area II					X (active pumping)
NS-16	Newell Street Area II			X		
NS-17	Newell Street Area II			X		
NS-18	Newell Street Area II			X		
NS-19	Newell Street Area II			X		
NS-20	Newell Street Area II			X		
NS-21	Newell Street Area II			X		
NS-23	Newell Street Area II			X		
NS-30	Newell Street Area II					X (active pumping)
NS-31	Newell Street Area II					X
NS-32	Newell Street Area II					X (active pumping)

TABLE 1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

SUMMARY OF EXISTING GROUNDWATER MONITORING PROGRAMS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS				
		SEMI-ANNUAL SAMPLING	SEMI-ANNUAL MONITORING	QUARTERLY MONITORING	MONTHLY MONITORING	WEEKLY MONITORING
NS-33	Newell Street Area II					X
NS-34	Newell Street Area II					X
NS-35	Newell Street Area II					X
NS-36	Newell Street Area II					X
NS-37	Newell Street Area II					X
31	East Street Area 1 - South		X			
32	East Street Area 1 - South		X			
33	East Street Area 1 - South		X			
34	East Street Area 1 - South		X		X	
35	East Street Area 1 - South		X			
45	East Street Area 1 - South		X			
46	East Street Area 1 - South		X			
47	East Street Area 1 - South		X			
48	East Street Area 1 - South		X			
49	East Street Area 1 - South		X			
53	East Street Area 1 - South		X			
56	East Street Area 1 - South		X			
57	East Street Area 1 - South		X			
72	East Street Area 1 - South		X		X	
74	East Street Area 1 - South		X			
75	East Street Area 1 - South		X			
76	East Street Area 1 - South		X			
77	East Street Area 1 - South		X			
78	East Street Area 1 - South		X			
79	East Street Area 1 - South		X			
80	East Street Area 1 - South		X			
81	East Street Area 1 - South		X			
89	East Street Area 1 - South		X			
97	East Street Area 1 - South		X			
100	East Street Area 1 - South		X			
125	East Street Area 1 - South		X			
138	East Street Area 1 - South		X			
ES1-12	East Street Area 1 - South		X			
ES1-13	East Street Area 1 - South		X			
ES1-23	East Street Area 1 - South		X			
ES1-24	East Street Area 1 - South		X			

Notes:

1. Monitoring is defined as collection of groundwater elevation and NAPL thickness (if present) measurements. Manual NAPL removal is also conducted if certain well-specific minimum NAPL thicknesses are observed during a monitoring event.
2. Sampling is defined as collection of groundwater samples for laboratory analysis.
3. Several active groundwater/NAPL recovery wells are also inspected in conjunction with the weekly-monthly monitoring programs listed above.

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

GROUNDWATER SAMPLING HISTORY

RAA	Reference Document	Well ID	Date Collected	Analyses Performed												
				PCBs	Filtered PCBs	Metals	Filtered Metals	PCDDs/ PCDFs	SVOCs	VOCs	Pest	Pest/ Herb	TOC	TOX	Phenol	Sulfide
1	L	RF-4	12/4/91	X		X			X	X		X				X
2	L	RF-2	12/4/91	X		X		X	X	X		X				X
2	Q	RF-2	3/21/96	X	X	X	X		X	X						
2	L	RF-3	12/4/91	X		X		X	X	X		X				X
2	Q	RF-3	3/21/96	X	X	X	X		X	X						
2	L	RF-16	12/4/91	X		X		X	X	X		X				X
2	Q	RF-16	3/21/96	X	X	X	X		X	X						
4	L	22	2/4-8/92	X					X	X						
4	L	22	2/11-15/92	X					X	X						
4	L	22	2/18-22/92	X					X	X						
4	L	22	2/25-29/92	X					X	X						
4	AK	22	4/23/96	X					X	X			X	X		
4	AK	22	4/30/96	X					X	X			X	X		
4	AK	22	5/7/96	X					X	X			X	X		
4	AK	22	5/14/96	X					X	X			X	X		
4	AK	22	11/5/96	X					X	X			X	X		
4	AK	22	11/13/96	X					X	X			X	X		
4	AK	22	11/20/96	X					X	X			X	X		
4	AK	22	12/2/96	X					X	X			X	X		
4	AK	22	5/7/97	X					X	X			X	X		
4	AK	22	5/14/97	X					X	X			X	X		
4	AK	22	5/21/97	X					X	X			X	X		
4	AK	22	5/28/97	X					X	X			X	X		
4	AK	22	10/27/97	X					X	X			X	X		
4	AK	22	11/3/97	X					X	X			X	X		
4	AK	22	11/10/97	X					X	X			X	X		
4	AK	22	11/17/97	X					X	X			X	X		
4	AK	22	6/2/98	X					X	X			X	X		
4	AK	22	6/11/98	X					X	X			X	X		

(See notes on Page 14)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

GROUNDWATER SAMPLING HISTORY

RAA	Reference Document	Well ID	Date Collected	Analyses Performed												
				PCBs	Filtered PCBs	Metals	Filtered Metals	PCDDs/ PCDFs	SVOCs	VOCs	Pest	Pest/ Herb	TOC	TOX	Phenol	Sulfide
4	AK	22	6/18/98	X					X	X			X	X		
4	AK	22	6/25/98	X					X	X			X	X		
4	AK	22	11/9/98	X					X	X			X	X		
4	AK	22	11/16/98	X					X	X			X	X		
4	AK	22	11/23/98	X					X	X			X	X		
4	AK	22	12/1/98	X					X	X			X	X		
4	AK	22	5/5/99	X					X	X			X	X		
4	AK	22	5/12/99	X					X	X			X	X		
4	AK	22	5/20/99	X					X	X			X	X		
4	AK	22	5/20/99	X					X	X			X	X		
4	AK	22	5/26/99	X					X	X			X	X		
4	AK	22	11/30/99	X					X	X			X	X		
4	AK	22	12/7/99	X					X	X			X	X		
4	AK	22	12/14/99	X					X	X			X	X		
4	AK	22	12/21/99	X					X	X			X	X		
4	L	43	2/4-6/91			X		X	X	X						X
4	L	43	2/4-8/92	X					X	X						
4	L	43	2/11-15/92	X					X	X						
4	L	43	2/18-22/92	X					X	X						
4	L	43	2/25-29/92	X					X	X						
4	AK	43	4/23/96	X					X	X			X	X		
4	AK	43	4/30/96	X					X	X			X	X		
4	AK	43	5/7/96	X					X	X			X	X		
4	AK	43	5/14/96	X					X	X			X	X		
4	AK	43	11/5/96	X					X	X			X	X		
4	AK	43	11/13/96	X					X	X			X	X		
4	AK	43	11/20/96	X					X	X			X	X		
4	AK	43	12/2/96	X					X	X			X	X		
4	AK	43	5/7/97	X					X	X			X	X		

(See notes on Page 14)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

GROUNDWATER SAMPLING HISTORY

RAA	Reference Document	Well ID	Date Collected	Analyses Performed												
				PCBs	Filtered PCBs	Metals	Filtered Metals	PCDDs/ PCDFs	SVOCs	VOCs	Pest	Pest/ Herb	TOC	TOX	Phenol	Sulfide
4	AK	43	5/14/97	X					X	X			X	X		
4	AK	43	5/21/97	X					X	X			X	X		
4	AK	43	5/28/97	X					X	X			X	X		
4	AK	43	10/27/97	X					X	X			X	X		
4	AK	43	11/3/97	X					X	X			X	X		
4	AK	43	11/10/97	X					X	X			X	X		
4	AK	43	11/17/97	X					X	X			X	X		
4	AK	43	6/2/98	X					X	X			X	X		
4	AK	43	6/11/98	X					X	X			X	X		
4	AK	43	6/18/98	X					X	X			X	X		
4	AK	43	6/25/98	X					X	X			X	X		
4	AK	43	11/9/98	X					X	X			X	X		
4	AK	43	11/16/98	X					X	X			X	X		
4	AK	43	11/23/98	X					X	X			X	X		
4	AK	43	12/1/98	X					X	X			X	X		
4	AK	43	5/5/99	X					X	X			X	X		
4	AK	43	5/12/99	X					X	X			X	X		
4	AK	43	5/20/99	X					X	X			X	X		
4	AK	43	5/20/99	X					X	X			X	X		
4	AK	43	5/26/99	X					X	X			X	X		
4	AK	43	11/30/99	X					X	X			X	X		
4	AK	43	12/7/99	X					X	X			X	X		
4	AK	43	12/14/99	X					X	X			X	X		
4	AK	43	12/21/99	X					X	X			X	X		
4	L	44	2/4-8/92	X					X	X						
4	L	44	2/11-15/92	X					X	X						
4	L	44	2/18-22/92	X					X	X						
4	L	44	2/25-29/92	X					X	X						
4	AK	44	4/23/96	X					X	X			X	X		

(See notes on Page 14)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

GROUNDWATER SAMPLING HISTORY

RAA	Reference Document	Well ID	Date Collected	Analyses Performed												
				PCBs	Filtered PCBs	Metals	Filtered Metals	PCDDs/ PCDFs	SVOCs	VOCs	Pest	Pest/ Herb	TOC	TOX	Phenol	Sulfide
4	AK	44	4/30/96	X					X	X			X	X		
4	AK	44	5/7/96	X					X	X			X	X		
4	AK	44	5/14/96	X					X	X			X	X		
4	AK	44	11/5/96	X					X	X			X	X		
4	AK	44	11/13/96	X					X	X			X	X		
4	AK	44	11/20/96	X					X	X			X	X		
4	AK	44	12/2/96	X					X	X			X	X		
4	AK	44	5/7/97	X					X	X			X	X		
4	AK	44	5/14/97	X					X	X			X	X		
4	AK	44	5/21/97	X					X	X			X	X		
4	AK	44	5/28/97	X					X	X			X	X		
4	AK	44	10/27/97	X					X	X			X	X		
4	AK	44	11/3/97	X					X	X			X	X		
4	AK	44	11/10/97	X					X	X			X	X		
4	AK	44	11/17/97	X					X	X			X	X		
4	AK	44	6/2/98	X					X	X			X	X		
4	AK	44	6/11/98	X					X	X			X	X		
4	AK	44	6/18/98	X					X	X			X	X		
4	AK	44	6/25/98	X					X	X			X	X		
4	AK	44	11/9/98	X					X	X			X	X		
4	AK	44	11/16/98	X					X	X			X	X		
4	AK	44	11/23/98	X					X	X			X	X		
4	AK	44	12/1/98	X					X	X			X	X		
4	AK	44	5/5/99	X					X	X			X	X		
4	AK	44	5/12/99	X					X	X			X	X		
4	AK	44	5/20/99	X					X	X			X	X		
4	AK	44	5/20/99	X					X	X			X	X		
4	AK	44	5/26/99	X					X	X			X	X		
4	AK	44	11/30/99	X					X	X			X	X		

(See notes on Page 14)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

GROUNDWATER SAMPLING HISTORY

RAA	Reference Document	Well ID	Date Collected	Analyses Performed												
				PCBs	Filtered PCBs	Metals	Filtered Metals	PCDDs/ PCDFs	SVOCs	VOCs	Pest	Pest/ Herb	TOC	TOX	Phenol	Sulfide
4	AK	44	12/7/99	X					X	X			X	X		
4	AK	44	12/14/99	X					X	X			X	X		
4	AK	44	12/21/99	X					X	X			X	X		
4	L	54	2/4-6/91			X		X	X	X						X
4	L	61	2/4-6/91			X		X	X	X						X
4	L	63	2/4-6/91			X		X	X	X						X
4	L	64	2/4-6/91			X		X	X	X						X
4	L	ES2-1	2/4-6/91			X		X	X	X						X
4	L	ES2-2	2/4-6/91			X		X	X	X						X
4	L	ES2-3	2/4-6/91			X		X	X	X						X
4	L	ES2-4	2/4-6/91			X		X	X	X						X
4	L	ES2-5	2/4-6/91			X		X	X	X						X
4	L	ES2-6	2/4-6/91			X		X	X	X						X
4	L	ES2-7	2/4-6/91			X		X	X	X						X
4	L	P-6	2/4-8/92	X					X	X						
4	L	P-6	2/11-15/92	X					X	X						
4	L	P-6	2/18-22/92	X					X	X						
4	L	P-6	2/25-29/92	X					X	X						
4	AK	P-6	4/23/96	X					X	X			X	X		
4	AK	P-6	4/30/96	X					X	X			X	X		
4	AK	P-6	5/7/96	X					X	X			X	X		
4	AK	P-6	5/14/96	X					X	X			X	X		
4	AK	P-6	11/5/96	X					X	X			X	X		
4	AK	P-6	11/13/96	X					X	X			X	X		
4	AK	P-6	11/20/96	X					X	X			X	X		
4	AK	P-6	12/2/96	X					X	X			X	X		
4	AK	P-6	5/7/97	X					X	X			X	X		
4	AK	P-6	5/14/97	X					X	X			X	X		
4	AK	P-6	5/21/97	X					X	X			X	X		

(See notes on Page 14)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

GROUNDWATER SAMPLING HISTORY

RAA	Reference Document	Well ID	Date Collected	Analyses Performed												
				PCBs	Filtered PCBs	Metals	Filtered Metals	PCDDs/ PCDFs	SVOCs	VOCs	Pest	Pest/ Herb	TOC	TOX	Phenol	Sulfide
4	AK	P-6	5/28/97	X					X	X			X	X		
4	AK	P-6	10/27/97	X					X	X			X	X		
4	AK	P-6	11/3/97	X					X	X			X	X		
4	AK	P-6	11/10/97	X					X	X			X	X		
4	AK	P-6	11/17/97	X					X	X			X	X		
4	AK	P-6	6/2/98	X					X	X			X	X		
4	AK	P-6	6/11/98	X					X	X			X	X		
4	AK	P-6	6/18/98	X					X	X			X	X		
4	AK	P-6	6/25/98	X					X	X			X	X		
4	AK	P-6	11/9/98	X					X	X			X	X		
4	AK	P-6	11/16/98	X					X	X			X	X		
4	AK	P-6	11/23/98	X					X	X			X	X		
4	AK	P-6	12/1/98	X					X	X			X	X		
4	AK	P-6	5/5/99	X					X	X			X	X		
4	AK	P-6	5/12/99	X					X	X			X	X		
4	AK	P-6	5/20/99	X					X	X			X	X		
4	AK	P-6	5/20/99	X					X	X			X	X		
4	AK	P-6	5/26/99	X					X	X			X	X		
4	AK	P-6	11/30/99	X					X	X			X	X		
4	AK	P-6	12/7/99	X					X	X			X	X		
4	AK	P-6	12/14/99	X					X	X			X	X		
4	AK	P-6	12/21/99	X					X	X			X	X		
4	L	RF-1	12/4/91	X		X			X	X						X
5	L	4-N	3/2/89	X		X			X	X	X				X	
5	L	4-N	2/4-6/91			X			X	X						
5	L,S	17-A	3/26/90	X		X			X	X	X				X	
5	L,S	17-C	3/22/90	X		X			X	X	X				X	
5	L	17-N	3/3/89	X		X			X	X	X				X	
5	L	24-N	2/4-6/91			X			X	X						

(See notes on Page 14)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

GROUNDWATER SAMPLING HISTORY

RAA	Reference Document	Well ID	Date Collected	Analyses Performed												
				PCBs	Filtered PCBs	Metals	Filtered Metals	PCDDs/ PCDFs	SVOCs	VOCs	Pest	Pest/ Herb	TOC	TOX	Phenol	Sulfide
5	L	27-N	3/2/89	X		X			X	X	X				X	
5	L	32-N	3/3/89	X		X			X	X	X				X	
5	L,R	A-7	3/22/90	X		X			X	X	X				X	
5	L,R	C-1	3/22/90	X		X			X	X	X				X	
5	R	E-1	3/22/90	X		X			X	X	X				X	
5	A	ES1-01	2/13/91	X		X			X	X	X					
5	A	ES1-02	2/13/91	X		X			X	X	X					
5	A	ES1-03	2/12/91	X		X			X	X	X					
5	A	ES1-04	2/12/91	X		X			X	X	X					
5	P	ES1-18	6/18/96			X			X	X						
5	P	ES1-19	6/18/96			X			X	X						
5	P	ES1-20	6/18/96			X	X		X	X						
5	R	F-1	3/22/90	X		X			X	X	X				X	
5	A	RF-13	12/4/91	X		X			X	X	X					
6	A	6	2/13/80	X												
6	A	6	3/4/80	X												
6	A	6	4/25/80	X												
6	A	29	2/13/80	X												
6	A	29	4/25/80	X												
6	A	46	2/13/80	X												
6	A	46	3/4/80	X												
6	A	46	4/25/80	X												
6	A	48	10/12/79	X												
6	A	48	10/18/79	X												
6	A	48	2/13/80	X												
6	A	48	2/13/80	X												
6	A	48	3/4/80	X												
6	A	48	3/4/80	X												
6	A	48	4/25/80	X												

(See notes on Page 14)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

GROUNDWATER SAMPLING HISTORY

RAA	Reference Document	Well ID	Date Collected	Analyses Performed												
				PCBs	Filtered PCBs	Metals	Filtered Metals	PCDDs/ PCDFs	SVOCs	VOCs	Pest	Pest/ Herb	TOC	TOX	Phenol	Sulfide
6	A	48	4/80	X												
6	A	51	10/18/79	X												
6	A	52	10/18/79	X												
6	A	53	10/18/79	X												
6	A	55	10/28/79	X												
6	A	56	10/18/79	X												
6	A	100	12/28/79	X												
6	A	100	2/13/80	X												
6	A	100	3/4/80	X												
6	A	100	4/18/80	X												
12	F	B-2 (Lot 1)	9/86							X						
12	F	B-2 (Lot 2)	11/86							X						
12	F	B-3 (Lot 1)	9/86							X						
12	F	B-5 (Lot 2)	11/86							X						
12	F	E-1	12/7/91	X		X			X	X						
12	F	E-1	12/1/95	X	X	X	X	X	X	X		X				
12	F	E-3	11/30/95	X	X	X	X	X	X	X		X				
12	F	E-4	12/1/95	X	X	X	X	X	X	X		X				
12	F	E-7	12/1/95	X	X	X	X	X	X	X		X				
12	F	LS-02	8/89		X				X	X						
12	F	LS-02	9-10/90	X		X		X	X	X		X				
12	F	LS-04	8/89		X				X	X						
12	F	LS-04	9-10/90	X		X		X	X	X		X				
12	F	LS-10	9-10/90	X		X		X	X	X		X				
12	F	LS-10	10/20/94	X					X	X						
12	F	LS-10	11/30/95	X	X	X	X	X	X	X		X				
12	F	LS-11	9-10/90	X		X		X	X	X		X				
12	F	LS-11	10/20-21/94	X					X	X						
12	F	LS-11	11/29/95	X	X	X	X	X	X	X		X				

(See notes on Page 14)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

GROUNDWATER SAMPLING HISTORY

RAA	Reference Document	Well ID	Date Collected	Analyses Performed												
				PCBs	Filtered PCBs	Metals	Filtered Metals	PCDDs/ PCDFs	SVOCs	VOCs	Pest	Pest/ Herb	TOC	TOX	Phenol	Sulfide
12	F	LS-12	9-10/90	X		X			X	X		X				
12	F	LS-12	10/20-21/94	X					X	X						
12	F	LS-12	11/29/95	X	X	X	X	X	X	X		X				
12	AB	LS-12	8/28/97	X	X	X	X	X	X	X	X	X				X
12	F	LS-13	9-10/90	X		X			X	X		X				
12	F	LS-20	10/20-21/94	X					X	X						
12	F	LS-20	11/29/95	X	X	X	X	X	X	X		X				
12	F	LS-22	10/20-21/94	X					X	X						
12	F	LS-24	10/20-21/94	X					X	X						
12	F	LS-24	11/29/95	X	X	X	X	X	X	X		X				
12	F	LS-25	10/20-21/94	X					X	X						
12	F	LS-25	11/30/95	X	X	X	X	X	X	X		X				
12	F	LS-28	11/28/95	X	X	X	X	X	X	X		X				
12	F	LS-29	11/30/95	X	X	X	X	X	X	X		X				
12	F	LS-32	10/20-21/94	X					X	X						
12	F	LS-33	10/20-21/94	X					X	X						
12	F	LS-34	12/28/95	X	X		X	X	X	X		X				
12	F	LS-36	11/29/95	X	X	X	X	X	X	X		X				
12	F	LS-37	11/28/95	X	X	X	X	X	X	X		X				
12	AB	LS-38	8/28/97	X	X	X	X	X	X	X	X	X				X
12	AB	LS-43	8/27/97	X	X	X	X	X	X	X	X	X				X
12	AB	LS-44	8/27/97	X	X	X	X	X	X	X	X	X				X
12	AB	LS-45	8/27/97	X	X	X	X	X	X	X	X	X				X
12	AI	LSSC-16S	3/13/99	X		X		X	X	X						
12	AL	MW-1 (10 Lyman)	1/13/88	X			X			X	X					
12	AM	MW-1 (10 Lyman)	2/3/93							X						
12	AN	MW-1 (727 East)	6/9/92	X						X						
12	AL	MW-2 (10 Lyman)	1/13/88	X			X			X	X					
12	AM	MW-2 (10 Lyman)	2/3/93							X						

(See notes on Page 14)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

GROUNDWATER SAMPLING HISTORY

RAA	Reference Document	Well ID	Date Collected	Analyses Performed												
				PCBs	Filtered PCBs	Metals	Filtered Metals	PCDDs/ PCDFs	SVOCs	VOCs	Pest	Pest/ Herb	TOC	TOX	Phenol	Sulfide
13	Y	NS-23	12/4/96							X						
13	Y	NS-24	8/2/95	X	X	X	X	X	X	X					X	X
13	Y	NS-33	2/28/96	X	X	X	X	X	X	X						X
13	Y	NS-34	12/4/96	X	X	X	X	X	X	X					X	X
13	Y	NS-35	12/4/96	X	X	X	X	X	X	X					X	X
13	Y	NS-36	12/4/96	X	X	X	X	X	X	X					X	X
13	Y	NS-37	12/3/96	X	X	X	X	X	X	X					X	X
14	T,G	FW-16	5/11/88	X						X						
14	U	FW-16	2/21/89		X				X	X						
14	G	FW-16R	4/1/97	X	X	X	X	X	X	X						
14	T,G	IA-9	5/11/88	X						X						
14	U	IA-9	2/14/89		X				X	X						
14	G	IA-9R	4/1/97	X	X	X	X	X	X	X						
14	G	MM-1	8/30/93	X												
14	V	MM-1	7/6/94	X	X											
14	G	MM-1	3/31/97	X	X	X	X	X	X	X						
14	G	MM-2	8/30/93	X												
14	V	MM-2	7/6/94	X	X											
14	G	MM-3	8/30/93	X												
14	V	MM-3	7/6/94	X	X											
14	G	MW-1	5/88							X						
14	U	MW-1	2/15/89		X				X	X						
14	G	MW-2	5/88							X						
14	U	MW-2	2/15/89		X				X	X						
14	G	MW-2R	3/31/97	X	X	X	X	X	X	X						
14	G	MW-3	5/88							X						
14	U	MW-3	2/15/89		X				X	X						
14	X	MW-3	1/31/92	X		X										
14	G	MW3R	3/31/97	X	X	X	X	X	X	X						

(See notes on Page 14)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

GROUNDWATER SAMPLING HISTORY

RAA	Reference Document	Well ID	Date Collected	Analyses Performed												
				PCBs	Filtered PCBs	Metals	Filtered Metals	PCDDs/ PCDFs	SVOCs	VOCs	Pest	Pest/ Herb	TOC	TOX	Phenol	Sulfide
14	G	QP-27	3/31/97	X	X	X	X	X	X	X						
14	G	RV-10	9/20/91							X						
14	T,G	SZ-1	5/11/88	X						X						
14	U	SZ-1	2/14/89		X				X	X						
14	G	SZ-1	4/1/97	X	X	X	X	X	X	X						
14	T,G	SZ-3	5/11/88	X						X						
14	U	SZ-3	2/11/89		X				X	X						
14	G	SZ-3R	4/2/97	X	X	X	X	X	X	X						
18	A	63	2/13/80	X												
18	A	63	3/4/80	X												
18	A	69	12/19/79	X												
18	A	69	4/18/80	X												
18	A	74	2/13/80	X												
18	A	74	3/4/80	X												
18	A	74	4/25/80	X												
18	A	77	12/19/79	X												
18	A	77	4/18/80	X												
18	A	79	12/19/79	X												
18	A	80	12/19/79	X												
18	AO	85	6/25/98	X	X	X	X	X	X	X		X				X
18	A	91	12/19/79	X												
18	A	91	4/18/80	X												
18	A	94	2/13/80	X												
18	A	94	3/4/80	X												
18	A	94	4/25/80	X												
18	A	115	3/26/80	X												
18	A	115	4/18/80	X												
18	A	116	3/26/80	X												
18	A	117	3/26/80	X												

(See notes on Page 14)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

GROUNDWATER SAMPLING HISTORY

RAA	Reference Document	Well ID	Date Collected	Analyses Performed												
				PCBs	Filtered PCBs	Metals	Filtered Metals	PCDDs/ PCDFs	SVOCs	VOCs	Pest	Pest/ Herb	TOC	TOX	Phenol	Sulfide
18	A	117	4/18/80	X												
18	A	125	3/26/80	X												
18	A	133	3/26/80	X												
18	A	134	3/26/80	X												
18	A	134	4/18/80	X												
18	A	135	3/26/80	X												
18	A	135	4/18/80	X												
18	A	137	4/18/80	X												
18	A	139	4/18/80	X												

(See notes on Page 14)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

GROUNDWATER SAMPLING HISTORY

References for Groundwater Appendix IX+3 Data:

Ref.	Author	Date	Area	Title
A	BBL	Oct. 1994	East Street 1	MCP Interim Phase II Report and Current Assessment Summary for East Street Area 1/USEPA Area 3
B	Golder	May 1996	East Street 2	Addendum to Phase II/RFI Proposal - East Street Area 2/ USEPA Area 4
E	BBL	Feb. 1996	Oxbows	MCP Phase I and Interim Phase II Report for Former Housatonic River Oxbow Areas A, B, C, J, and K
F	BBL	June 1997	Lyman St	MCP Phase II/RCRA Facility Investigation Report for Lyman Street Parking Lot/USEPA Area 5A
G	BBL	Sept. 1997	Newell I	MCP Supplemental Phase II Report for the Newell Street I Site
J	BBL	Mar. 1997	Newell II	Data tables sent from BBL to GE on March 7, 1997
K	BBL	Jan. 1996	Housatonic River	Supplemental Phase II/RCRA Facility Investigation Report for Housatonic River and Silver Lake
L	BBL	Aug. 1994	East Street 2	MCP Interim Phase II Report and Current Assessment Summary for East Street Area 2/USEPA Area 4
M	BBL	Jan. 1999	East Street 2	Proposal for Supplemental Source Control Containment/ecovery Measures
P	Golder	Nov. 1996	East Street 1	Addendum to Supplemental Phase II SOW / RFI Proposal - East Street Area 1/ USEPA Area 3
Q	Golder	Apr. 1997	East Street 2	Revisions to Addendum to Phase II/RFI Proposal - East Street Area 2/ USEPA Area 4
R	G & M	May 1990	East Street 2	Results of the Well Installation and Water Sampling Program in the Vicinity of Building 100, GE Company, Pittsfield, Massachusetts
S	G & M	May 1990	East Street 2	Results of the Well Installation and Water Sampling Program in the Vicinity of Building 17, GE Company, Pittsfield, Massachusetts
T	G & M	July 1988	Newell I	Investigation of Soil and Groundwater Conditions of the Newell Street Site, General Electric Company, Pittsfield, Massachusetts
U	G & M	April 1989	Newell I	Supplemental Investigation of Soil and Groundwater Conditions of the Newell Street Site, General Electric Company, Pittsfield, Massachusetts
V	S-K	Nov. 1994	Newell I	Sub-Surface Investigation at the Newell Street Site (#1-0151) Moldmaster Engineering Property, 187 Newell Street, Pittsfield, Massachusetts
W	B&B	June 1990	Newell II	Newell Street MCP Phase II Supplemental Data Summary
X	B&B	Feb. 1992	Newell II	MCP Interim Phase II Report for the Newell Street Site
Y	BBL	May 1996	Newell II	Pittsfield 1-1057, USEPA Area 5B GE/Newell Street Area II - Phase II/RFI Data and Boring Logs (data verified July 1998)
AB	BBL	Oct. 1997	Lyman St	Addendum to MCP Supplemental Phase II/RCRA Facility Investigation Proposal for Lyman Street / USEPA Area 5A
AC	G & M	Aug. 1986	East Street 2	Response to Massachusetts DEQE Review of the Ground-Water Monitoring Program in the East Street-Area 2 Project Site
AF	Golder	Jan. 1992	Lyman St	Additional Hydrogeologic Assessment and Short-Term Measure Evaluation and Proposal, Lyman Street Parking Lot (Oxbow Area D)
AH	GE	Nov. 1998	East Street 2	Source Control Investigations and Preliminary Containment Barrier Design for East Street Area 2, GE Company, Pittsfield, Massachusetts
AI	HSI	June 1999	Lyman St	Source Control Investigation Addendum Report, Upper Reach Housatonic River (First 1/2 Mile), Pittsfield, Massachusetts
AI	HSI	June 1999	Newell II	Source Control Investigation Addendum Report, Upper Reach Housatonic River (First 1/2 Mile), Pittsfield, Massachusetts
AJ	HSI	April 1999	East Street 2	DNAPL Assessment, East Street Area 2 Site, Pittsfield, Massachusetts
AK	BBL	April 2000	East Street 2	Recharge Pond Semi-Annual Monitoring Data Summary Tables
AL	S-K Assoc.	Feb. 1988	Lyman St	MGL Chapter 21E Property Assessment, #10 Lyman Street, Pittsfield, Massachusetts
AM	OBG	March 1993	Lyman St	Site Assessment Update, 10 Lyman Street Property
AN	AES	June 1992	Lyman St	21E Limited Site Investigation for 772 East Street, Pittsfield, Massachusetts
AO	QES	July 1998	East Street	Analytical Report, GE 16 Lombard Street, Quanterra Incorporated

Removal Action Area Identification:

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

TABLE 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

SUMMARY OF RECENT WELL INVENTORY RESULTS

WELL ID	REMOVAL ACTION AREA NUMBER	GROUND ELEVATION (Feet AMSL)	MEASURING POINT ELEVATION (Feet AMSL)	DEPTH TO TOP OF SCREEN (Feet BGS	SCREEN LENGTH (Feet)	WELL INVENTORY DATE AND COMMENTS	DATE OF LAST MEASUREMENT
95-17	1	1007.61	1007.67	20	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
RF-04*	1	1012.18	1011.99	10	15	[Feb. 1996] Active (Semi-Annual); cement cracked	Sept. 1999
95-15	2	986.58	986.38	7	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
95-16	2	1007.88	1007.65	14	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
ES2-19*	2	1007.6	1007.22	11.5	8	[Installed Sept. 1997] Active (Semi-Annual)	Sept. 1999
RF-02*	2	983.22	982.35	3	15	[Feb. 1996] Active (Semi-Annual); cement cracked	Sept. 1999
RF-03*	2	985.66	985.29	3	15	[Feb. 1996] Active (Semi-Annual); cement cracked	Sept. 1999
RF-16*	2	988.15	987.91	7	15	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
95-23*	3	999.03	1002.22	10	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
A	3	992.7	992.73	10	15	Decommissioned in 1988	Spring 1988
AA-1	3	999.1	999.09	15	15	Removed from monitoring program, Spring 1990	Fall 1989
AA-2	3	999.9	999.24	30	5	Removed from monitoring program, Spring 1990	Fall 1989
B	3	994.3	994.26	10	15	Decommissioned in 1988	Spring 1988
BB	3	999.26	999.18	15	15	[Feb. 1996] BOW soft sediment	Fall 1986
CC	3	999.3	998.84	15	15	[May 1995] Active (Semi-Annual); BOW soft sediment	Sept. 1999
DD	3	---	---	10	15	[Feb. 1996] BOW soft sediment	
E	3	996.8	996.76	15	15	Removed from monitoring program, Spring 1987	Fall 1986
EE	3	1004.9	1004.27	20	15	[May 1995] Active (Semi-Annual); BOW soft sediment	Oct. 1999
F	3	1000.9	1000.89	15	15	Decommissioned in 1989	Fall 1988
FF	3	1006.2	1005.70	20	15	[Feb. 1996] Active (Semi-Annual)	Oct. 1999
G	3	993.3	993.83	15	10	Decommissioned in 1988	Spring 1988
GG	3	1007.9	1007.40	20	15	[Feb. 1996] Active (Semi-Annual)	Oct. 1999
H	3	995.9	995.54	20	15	Decommissioned in 1987	Fall 1986
HH	3	1007.1	1006.93	20	20	[May 1995] Active (Semi-Annual); well cap missing, BOW soft sediment	Sept. 1999
I	3	997.8	997.79	15	10	Well paved over in 1994	Spring 1993
II	3	1007.4	1007.26	20	15	[May 1995] Active (Semi-Annual); BOW soft sediment	Sept. 1999
J	3	997.6	997.64	15	10	Well abandoned during Merrill Rd. reconstruction	Sept. 1998
JJ	3	1007.04	1006.38	23	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
K	3	995.8	995.82	15	10	Well abandoned during Merrill Rd. reconstruction	Sept. 1998
KK	3	1006.96	1006.61	25	15	[May 1995] Active (Semi-Annual); BOW soft sediment	Oct. 1999
L	3	994.2	994.18	15	10	Decommissioned in 1989	Fall 1988
LL	3	994	996.25	15	25	Well abandoned during Merrill Rd. reconstruction	Sept. 1998
M	3	993.1	993.06	15	10	Well abandoned during Merrill Rd. reconstruction	Sept. 1998
MM	3	994.2	994.00	10	13.5	Well abandoned	Sept. 1998
N	3	1006.7	1006.72	15	15	Decommissioned in 1989	Fall 1988
N-R	3	1008.5	1008.24	---	---	[Feb. 1996] Active (Semi-Annual)	Oct. 1999
NN	3	994.5	994.27	15	10	Well abandoned during Merrill Rd. reconstruction	Sept. 1998
O	3	1003.8	1003.77	20	10	Decommissioned in 1989	Fall 1988
O-R	3	1000.7	1000.42	---	---	[Feb. 1996] Active (Semi-Annual)	Sept. 1999

TABLE 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

SUMMARY OF RECENT WELL INVENTORY RESULTS

WELL ID	REMOVAL ACTION AREA NUMBER	GROUND ELEVATION (Feet AMSL)	MEASURING POINT ELEVATION (Feet AMSL)	DEPTH TO TOP OF SCREEN (Feet BGS	SCREEN LENGTH (Feet)	WELL INVENTORY DATE AND COMMENTS	DATE OF LAST MEASUREMENT
22	4	998.85	994.69	17	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
25	4	992.5	992.48	9	20	Well abandoned during Merrill Rd. reconstruction	Sept. 1998
26	4	993.84	993.59	8.5	20	Well abandoned during Merrill Rd. reconstruction	Sept. 1998
27	4	993.8	993.80	10	20	Well abandoned during Merrill Rd. reconstruction	Sept. 1998
28	4	991.5	991.86	15	10	[May 1995] Active (Monthly, Semi-Annual); BOW soft sediment	Jan. 2000
29	4	992.1	991.59	17	10	[May 1995] Active (Monthly, Semi-Annual); BOW soft sediment	Jan. 2000
30	4	---	989.34	---	---	[Feb. 1996]	Oct. 1999
31	4	990.95	990.60	15	10	[May 1995] Active (Semi-Annual); BOW soft sediment	Sept. 1999
32	4	990.96	990.81	9	10	[May 1995] Active (Monthly, Semi-Annual); well cap missing	Jan. 2000
34	4	983.2	982.54	5	10	[May 1995] Active (Semi-Annual); BOW soft sediment	Oct. 1999
35	4	983	982.81	5	10	[Feb. 1996] Active (Monthly, Semi-Annual)	Jan. 2000
36	4	983.5	983.02	5	10	[Feb. 1996] Active (Monthly, Semi-Annual)	Jan. 2000
36	4	988.1	988.10	3	20	[March 1996]	Spring 1997
37	4	980.5	980.37	5	10	[May 1995] Active (Monthly, Semi-Annual); BOW soft sediment	Jan. 2000
38	4	981.4	980.77	5	10	[Feb. 1996] Active (Monthly, Semi-Annual)	Jan. 2000
39	4	984.3	983.89	5	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
40R	4	991.5	991.60	10	10	Active Recovery System in Place	Jan. 2000
42	4	988.5	988.33	10	10	[Feb. 1996] Active (Weekly, Semi-Annual)	Jan. 2000
43	4	985.7	989.67	10	10	[May 1995] Active (Monthly, Semi-Annual); well casing loose	Jan. 2000
44	4	988.8	988.33	10	10	[May 1995] Active (Monthly, Semi-Annual); well cap missing	Jan. 2000
47	4	991.6	991.09	15	10	[Feb. 1996] Active (Monthly); BOW soft sediment	Jan. 2000
48	4	989	992.39	15	10	[May 1995] Active (Weekly, Semi-Annual); BOW soft sediment	Jan. 2000
49R	4	989.1	988.71	5	20	[Feb. 1996] Active (Weekly, Semi-Annual)	Jan. 2000
49RR	4	990	989.80	10	15	[May 1995] Active (Weekly, Semi-Annual); well cap missing	Jan. 2000
50	4	986	985.79	4.5	20	[May 1995] Active (Weekly, Semi-Annual); cement cracked	Jan. 2000
51	4	985.3	985.38	4.5	20	[Feb. 1996] Active (Monthly, Semi-Annual)	Jan. 2000
52	4	985.5	985.18	4.2	20	[Feb. 1996] Active (Semi-Annual)	Oct. 1999
53	4	987.2	986.90	8	20	[Feb. 1996] Active (Weekly, Semi-Annual)	Fall 1998
54	4	986.1	985.78	7	20	[Feb. 1996] Active (Weekly, Semi-Annual)	Jan. 2000
55	4	997.7	989.45	7	20	[May 1995] Active (Weekly, Semi-Annual); cement cracked	Jan. 2000
56	4	987.34	987.28	7	20	[Jan. 2000] Active (Weekly, Semi-Annual); appears to be collapsed	Jan. 2000
57	4	990.1	989.80	8	20	[Feb. 1996] Active (Weekly, Semi-Annual)	Jan. 2000
58	4	986.3	985.79	8	20	[May 1995] Active (Weekly, Semi-Annual); BOW soft sediment	Jan. 2000
59	4	986.8	986.32	8	20	[May 1995] Active (Weekly, Semi-Annual)	Jan. 2000
60	4	996.5	996.15	13	15	Well abandoned during Merrill Rd. reconstruction	Sept. 1998
61	4	992.5	992.31	10	15	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
62	4	979.4	979.11	3	17	[May 1995] Active (Semi-Annual); cement cracked	Sept. 1999
63	4	986.7	986.48	13	15	[May 1995] Active (Weekly, Semi-Annual); cement cracked, BOW soft sediment	Jan. 2000
64*	4	985.2	985.00	7	15	[May 1995] Active (Monthly, Semi-Annual); cement cracked, BOW soft sediment	Jan. 2000

TABLE 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

SUMMARY OF RECENT WELL INVENTORY RESULTS

WELL ID	REMOVAL ACTION AREA NUMBER	GROUND ELEVATION (Feet AMSL)	MEASURING POINT ELEVATION (Feet AMSL)	DEPTH TO TOP OF SCREEN (Feet BGS	SCREEN LENGTH (Feet)	WELL INVENTORY DATE AND COMMENTS	DATE OF LAST MEASUREMENT
65	4	992.8	992.50	12.3	15	[May 1995] Active (Semi-Annual); cement cracked, BOW soft sediment	Sept. 1999
66	4	990.85	990.70	10	20	[Feb. 1996] Active (Weekly, Semi-Annual)	Jan. 2000
95-01	4	983.89	983.77	8	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
95-02	4	982.51	985.53	5.5	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
95-04	4	985.62	988.70	10	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
95-05	4	986.76	989.45	8	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
95-06	4	986.14	989.07	20	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
95-07	4	991.86	994.91	17.5	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
95-09*	4	995.27	998.28	15	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
95-19	4	989.91	989.91	11.4	10	[Feb. 1996] Active (Semi-Annual)	Apr. 1999
95-25*	4	985.12	988.20	8	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
C	4	991.5	996.47	10	15	Removed from program	Fall 1986
EASTERN	4	+1.9 ft.	---	---	---	Active (Semi-Annual)	Sept. 1999
C60	4	979.6	979.62	---	---	[Mar. 2000] Unable to locate, covered by rocks. Active (Semi-Annual)	Sept. 1999
E2SC-01	4	986.42	988.36	31	10	[Installed Oct. 1998]	Dec. 1998
E2SC-02	4	985.93	987.57	31	10	[Installed Oct. 1998]	Dec. 1998
E2SC-03I	4	980.43	982.12	34.5	10	[Installed Oct. 1998] Active (Weekly)	Jan. 2000
E2SC-03S	4	980.57	982.15	10	10	[Installed Oct. 1998]	Jan. 2000
E2SC-04	4	983.53	989.11	34	10	[Installed Oct. 1998]	Dec. 1998
E2SC-05	4	991.42	993.24	30	10	[Installed Oct. 1998]	Dec. 1998
E2SC-06	4	990.46	992.49	8.7	10	[Installed Oct. 1998]	Nov. 1998
E2SC-09	4	983.48	984.78	30	10	[Installed Oct. 1998]	Dec. 1998
E2SC-13	4	988.09	989.89	8	10	[Installed Oct. 1998]	Dec. 1998
E2SC-14	4	990.19	992.25	10	10	[Installed Oct. 1998]	Dec. 1998
E2SC-16I	4	985.78	987.77	38.5	10	[Installed Nov. 1998]	Dec. 1998
E2SC-16S	4	985.78	987.69	7	10	[Installed Oct. 1998]	Dec. 1998
E2SC-17	4	983.76	985.38	36.7	10	[Installed Oct. 1998] Active (Weekly)	Jan. 2000
E2SC-21	4	982.29	981.70	5	10	[Installed Mar. 1999] Active (Semi-Annual)	Sept. 1999
E2SC-22	4	984.1	986.51	5	10	[Installed Mar. 1999] Active (Semi-Annual)	Sept. 1999
E2SC-23*	4	990.1	992.07	9	10	[Installed June 1999] Active (Weekly)	Jan. 2000
E2SC-24*	4	986	987.90	9	10	[Installed June 1999] Active (Weekly)	Jan. 2000
E2SC-25	4	---	---	---	---	[Installed Aug. 1999] Active (Monthly)	Jan. 2000
3-6C-EB-13	4	984.64	984.36	28.25	9.5	[Installed Sept. 1996]	Feb. 1999
3-6C-EB-14*	4	984.68	984.20	12	9.5	[Installed Sept. 1996]	Feb. 1999
3-6C-EB-22	4	983.33	986.94	6.7	9.8	[Installed Nov. 1997]	Feb. 1999
3-6C-EB-23	4	983.25	986.29	6.7	9.8	[Installed Nov. 1997]	Feb. 1999
3-6C-EB-24	4	983.16	985.84	6.8	9.8	[Installed Nov. 1997]	Feb. 1999
3-6C-EB-25	4	982.64	986.31	11.8	9.5	[Installed Nov. 1997] Active (Weekly)	Jan. 2000
3-6C-EB-26	4	983.86	986.74	6.5	15	[Installed Nov. 1997] Active (Monthly)	Jan. 2000

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SUMMARY OF RECENT WELL INVENTORY RESULTS

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3-6C-EB-27	4	982.41	985.03	9	9.5	[Installed Nov. 1997]	Feb. 1999
3-6C-EB-28	4	982.8	985.79	6.9	14.5	[Installed Mar. 1998] Active (Weekly)	Jan. 2000
3-6C-EB-29*	4	982.9	986.13	4.8	14.5	[Installed Mar. 1998]Active (Monthly)	Jan. 2000
3-6C-EB-30	4	984.4	983.80	8.2	14.5	[Installed Mar. 1998]	Feb. 1999
3-6C-EB-31	4	984.4		46.3	9.5	[Installed Apr. 1998]	Feb. 1999
ES2-01	4	985.7	985.36	25	10	[Feb. 1996] Active (Monthly); cement cracked	Jan. 2000
ES2-02	4	980.9	980.12	20	10	[May 1995]	May 1995
ES2-02A*	4	980.1	979.54	3	15	[May 1995] Active (Monthly, Semi-Annual); cement cracked	Jan. 2000
ES2-03*	4	984.7	984.44	18	10	[April 1996] Could not locate -- found boring hole, possibly abandoned	Feb. 1991
ES2-04	4	984.3	983.84	7	15	[May 1995] Active (Semi-Annual); cement cracked	Sept. 1999
ES2-05*	4	990.8	990.65	9	15	[May 1995] Active (Semi-Annual)	Sept. 1999
ES2-06	4	986.3	986.00	37.5	10	[Feb. 1996] Active (Monthly, Semi-Annual); Unable to monitor due to construction activities; cement crac	Dec. 1999
ES2-07	4	980.4	980.03	33	10	[Feb. 1996] Active (Monthly)	Jan. 2000
ES2-08*	4	995.5	994.87	10	15	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
ES2-09	4	991.7	991.25	10	10	[May 1995] Active (Semi-Annual); cement cracked	Sept. 1999
ES2-10	4	991.9	991.55	10	10	[May 1995] Active (Semi-Annual); cement cracked	Sept. 1999
ES2-11	4	985.9	985.05	5	15	[May 1995] Active (Semi-Annual); cement cracked, slime build-up, BOW soft sediment	Sept. 1999
ES2-12	4	985.1	984.41	4.5	15	[May 1995] Active (Semi-Annual); cement cracked	Sept. 1999
ES2-14	4	986.7	985.93	12	10	[Installed Nov. 1996] Active (Semi-Annual)	Sept. 1999
ES2-15	4	986.8	986.55	10	10	[Installed Nov. 1996] Active (Semi-Annual)	Sept. 1999
ES2-16	4	987.1	986.88	10	10	[Installed Feb. 1997] Active (Semi-Annual)	Sept. 1999
ES2-17*	4	986.8	986.55	11	10	[Installed Feb. 1997] Active (Weekly, Semi-Annual)	Jan. 2000
ES2-18	4	987.1	986.86	12	22	[Installed Feb. 1997] Active (Semi-Annual)	Sept. 1999
P1	4	989.25	988.75	3.8	10	[May 1995] Active (Semi-Annual); casing and cement loose	Sept. 1999
P2	4	988.5	988.22	4	10	[May 1995] Active (Semi-Annual)	Sept. 1999
P3	4	989.3	989.25	4	10	[May 1995] Active (Monthly, Semi-Annual); cement cracked, BOW soft sediment	Jan. 2000
P3D	4	988.55	988.54	12.75	2	[May 1995] Active (Monthly, Semi-Annual); cement cracked	Jan. 2000
P4	4	987.3	987.16	4	10	[May 1995] Active (Semi-Annual); sand drain has eroded, BOW soft sediment	Sept. 1999
P5	4	985.77	985.64	1.5	11.5	[May 1995] Active (Semi-Annual); cement cracked, cap missing, BOW soft sediment	Sept. 1999
P6	4	981.6	985.71	1.5	10	[May 1995] Active (Semi-Annual); cement cracked	Sept. 1999
P7	4	985.3	989.10	0.5	10	[May 1995] Active (Semi-Annual); cement cracked, casing loose, BOW soft sediment	Jan. 2000
PZ-1S	4	990.1	989.93	13.26	5.58	[Feb. 1995] Active (Weekly)	Jan. 2000
PZ-2S	4	985.5	985.34	9.22	5.58	[Feb. 1995] Active (Monthly)	Jan. 2000
PZ-3D	4	---	---	13.77	5.58	[Feb. 1995] Active (Monthly)	Jan. 2000
PZ-3S	4	---	---	9.22	5.58	[Feb. 1995] Active (Monthly)	Jan. 2000
PZ-4S	4	980.6	980.43	8.22	5.58	[Feb. 1995] Active (Monthly)	Jan. 2000
PZ-5S	4	983.9	983.74	7.49	5.4	Well abandoned	May 1999
PZ-6S	4	984.3	984.13	7.34	5.5	[Feb. 1995] Active (Weekly)	Jan. 2000
PZ-7S	4	---	---	7.34	5.5	[Mar. 2000] Unable to locate, in construction zone	

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RB-1	4	---	---	---	---	[Feb. 1995] Active (Monthly)	Jan. 2000
RF-01	4	984.79	984.42	4	15	[March 1996] Active (Semi-Annual); cement cracked	Sept. 1999
RW-1(S)	4	---	987.23	---	---	Active (Weekly, Semi-Annual); Recovery System in Place	Dec. 1999
RW-3(X)	4	980.93	980.28	36	10	[Installed Sept. 1999] Active (Weekly)	Jan. 2000
TMP-1	4	---	---	---	---	[Mar. 2000] Active (Weekly)	Jan. 2000
WP-01	4	---	979.21	8.27	3.4	Removed during construction activities (January 2000)	Jan. 2000
WP-02	4	---	977.61	4.6	3.4	Well abandoned during sheetpiling installation	May 1999
WP-03	4	---	976.77	---	---	Well abandoned during sheetpiling installation	May 1999
WP-04	4	---	978.12	3.9	3.4	Well abandoned during sheetpiling installation	May 1999
WP-05	4	---	977.21	---	---	Well abandoned during sheetpiling installation	May 1999
WP-06	4	---	974.91	---	---	Removed during construction activities (January 2000)	May 1999
WP-13	4	983.87	979.20	0.3	5	Well abandoned during sheetpiling installation	May 1999
01-N	5	1023.3	1023.22	15	10	Well cover cannot be removed	Fall 1988
02-N	5	1015.7	1015.61	10	10	[Feb. 1996] Active (Semi-Annual), flushmount cover damaged; PVC broken	Sept. 1999
04-N	5	---	---	---	---	Well cannot be found	Fall 1988
05-N	5	1009.5	1009.23	18	10	[May 1995] Active (Weekly, Semi-Annual); well cap missing	Jan. 2000
06-N	5	1011.2	1010.83	27	10	[May 1995] Active (Semi-Annual); BOW soft sediment	Sept. 1999
07-N	5	---	---	30	10	[March 1996] Well cap missing, BOW soft sediment	
9	5	1024.5	1024.50	9	15	Well Decommissioned	Spring 1988
09-N	5	1011.2	1011.01	24	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
11*	5	1023	1023.00	5	20	[March 1996] Well possibly located, but not confirmed	Oct. 1989
11-N	5	1011.5	1010.85	30	10	[May 1995] Active (Semi-Annual); well cap missing	Sept. 1999
12-N	5	---	---	15	10	[April 1996] BOW soft sediment	
13-N	5	1019.7	1019.50	20	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
14-N	5	1010.7	1010.53	24	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
15-N	5	---	---	20	10	[Feb. 1996]	
16-N	5	1011.04	1010.65	30	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
17-N	5	1010.6	1010.49	30	10	[May 1995] Active (Semi-Annual); BOW soft sediment	Sept. 1999
17A*	5	1024.3	1024.30	5	15	[Feb. 1996] Active (Semi-Annual)	Spring 1998
17C	5	1024.4	1024.31	5	15	[Feb. 1996] Active (Semi-Annual); BOW soft sediment	Spring 1998
18-N	5	---	---	30	10	[Feb. 1996]	
19-N	5	1011.1	1010.68	30	10	[May 1995] Active (Semi-Annual); well cap missing	Sept. 1999
20-N	5	1011.2	1010.66	30	10	[May 1995] Active (Semi-Annual); BOW soft sediment	Sept. 1999
21-N	5	1011.1	1010.81	30	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
22-N	5	1010.8	1010.64	30	10	[May 1995] Active (Semi-Annual); well cap missing, BOW soft sediment	Sept. 1999
23-N	5	1011.3	1011.13	30	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
24-N	5	1011.1	1010.50	30	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
25-N	5	---	---	35	10	[March 1996] BOW soft sediment	
26-N	5	---	---	35	10	[March 1996] Well cap missing, BOW soft sediment	

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27-N	5	1010.9	1010.40	25	10	[May 1995] Active (Semi-Annual); curb box and well cap missing	Sept. 1999
28-N	5	---	---	20	10	[March 1996] Well cap missing, BOW soft sediment	
29-N	5	1011.4	1010.83	35	10	Present, removed from program (April 1987)	Fall 1986
30-N	5	---	---	25	10	[March 1996] Well cap missing, BOW soft sediment	
31-N	5	1012.3	1012.08	10	10	[May 1995] Active (Semi-Annual); substituted for C2; curb box cover is missing	Sept. 1999
33-N	5	---	---	10	10	[Feb. 1996] Curb box missing	April 1996
95-12	5	1010.38	1010.20	30	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
95-20*	5	1010.83	1010.67	10	10	[Feb. 1996] Active (Semi-Annual); well cover broken	Sept. 1999
A7	5	1024.3	1024.07	4	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
C1	5	1024	1023.67	5	15	[Feb. 1996] Active (Semi-Annual); well cap missing, top of PVC riser bent, BOW soft sediment	Sept. 1999
C2	5	---	---	---	---	Well obstructed since 1991	
ES1-01	5	1017.29	1017.09	9.2	15	Well abandoned during Merrill Rd. reconstruction	Sept. 1998
ES1-02	5	1019.87	1019.97	19.9	10	[Feb. 1996]	Mar. 1996
ES1-03	5	1022.89	1023.09	14.8	10	[Feb. 1996]	Mar. 1996
ES1-04	5	1022.07	1022.09	5	20	Well abandoned during Merrill Rd. reconstruction	Sept. 1998
ES1-05	5	1023.39	1023.33	35	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
ES1-06*	5	992.61	996.30	18	10	[Feb. 1996] Active (Semi-Annual), well obstructed	Spring 1997
ES1-10*	5	1024.09	1023.94	7	10.5	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
ES1-11*	5	1023.59	1023.44	5	10	[Feb. 1996] Active (Semi-Annual), standing water around PVC in casing	Sept. 1999
ES1-18*	5	1049.81	1049.71	4	10	[Feb. 1996] Active (Semi-Annual), standing water around PVC in casing	Sept. 1999
ES1-19	5	1025.82	1025.82	5	10	[Feb. 1996] Active (Semi-Annual), standing water around PVC in casing	Sept. 1999
ES1-20*	5	997.82	1001.56	6	10	[Feb. 1996] Active (Semi-Annual), standing water around PVC in casing	Sept. 1999
ES1-21	5	991.22	991.02	4	10	Well abandoned during Merrill Rd. reconstruction	Oct. 1998
ES1-22	5	991.05	990.90	18	10	Well abandoned during Merrill Rd. reconstruction	Sept. 1998
ES1-25	5	1023.43	1023.33	12	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
ES1-27*	5	1023.43	1023.28	7	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
ES1-29	5	1023.79	1023.59	25	10	[Feb. 1996] Active (Semi-Annual), standing water around PVC in casing	Sept. 1999
F-1	5	---	---	---	---	[Feb. 1996]	Mar. 1996
RF-13	5	990.72	990.38	5	15	Well abandoned during Merrill Rd. reconstruction	Sept. 1998
6	6	1003.9	1003.90	3.5	10	[Feb. 1996] Active (Semi-Annual); top of PVC broken; cap missing	Sept. 1999
8	6	1004.7	1004.70	1	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
25	6	1000.7	1000.70	2	15	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
26	6	1004.2	1004.20	2	15	Well Decommissioned during construction of oil recovery system	Oct. 1979
30	6	998.9	998.90	0.5	15	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
49	6	999.9	999.90	2	20	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
50	6	999.9	999.90	2	20	Well obstructed	Fall 1987
51	6	999.5	999.50	2	20	Well obstructed	Fall 1987
52*	6	999.3	999.30	2	20	[Feb. 1996] Active (Monthly, Semi-Annual)	Jan. 2000
53	6	998.6	998.60	2	20	[Feb. 1996] Active (Semi-Annual); well dry or obstructed	Sept. 1999

TABLE 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

SUMMARY OF RECENT WELL INVENTORY RESULTS

WELL ID	REMOVAL ACTION AREA NUMBER	GROUND ELEVATION (Feet AMSL)	MEASURING POINT ELEVATION (Feet AMSL)	DEPTH TO TOP OF SCREEN (Feet BGS	SCREEN LENGTH (Feet)	WELL INVENTORY DATE AND COMMENTS	DATE OF LAST MEASUREMENT
54	6	998.1	998.10	3	20	Well Decommissioned during construction of oil recovery system	Spring 1981
59	6	998.3	998.35	2	20	[March 1996] Well could not be located	Apr. 1982
101	6	1003.2	1003.17	2	15	[March 1996] Well could not be located	Nov. 1981
102	6	1003.5	1003.51	2	15	[March 1996] Well could not be located	May 1980
103	6	1002.5	1002.52	2	15	[Feb. 1996] Active (Semi-Annual); PVC pipe broken; well cap missing	Sept. 1999
105	6	1002.9	1002.85	2	15	[Feb. 1996] Active (Monthly, Semi-Annual)	Jan. 2000
106	6	1003.1	1004.06	3	20	[Feb. 1996] Active (Monthly, Semi-Annual)	Jan. 2000
107	6	1003.9	1003.86	2	15	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
108A	6	1007.8	1007.79	5	15	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
109A	6	1005.5	1005.43	5	15	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
118	6	1001.5	1001.50	2	8	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
119	6	1001.5	1001.53	2	8	[Feb. 1996] Active (Semi-Annual); well cover missing	Sept. 1999
120	6	1001.3	1001.30	2	13	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
121	6	1000.8	1000.80	2	8	[March 1996] Well could not be located	Spring 1982
127	6	1001.1	1001.13	3	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
128	6	1001.4	1001.41	1	14	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
129	6	---	---	---	---	Well Decommissioned during construction of oil recovery system	Oct. 1979
130	6	1001.3	1001.31	3	5	[Feb. 1996] Active (Semi-Annual); pallet of concrete on top of well, Fall 1999	May 1999
131	6	1001.3	1001.18	3	5	[Feb. 1996] Active (Monthly, Semi-Annual); well obstructed	Jan. 2000
132	6	1001.9	1001.94	3	5	[March 1996] Well covered over	Spring 1982
140	6	1000.3	1000.30	2	15	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
141	6	1000.2	1000.16	2	15	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
Caisson-North	6	---	997.84	7.5	11	Active (Monthly, Semi-Annual); Recovery System in Place	Jan. 2000
ES1-07	6	1003.6	1003.35	5	10	[Feb. 1996] Active (Semi-Annual); standing water around PVC in casing	Sept. 1999
ES1-08*	6	1001.17	1000.85	5	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
ES1-09	6	1000.56	1000.36	4	10	Well Decommissioned during Merrill Rd. reconstruction	Apr. 1999
ES1-14*	6	998.8	998.74	10	10	[Feb. 1996] Active (Semi-Annual)	Sept. 1999
B-1*	12	981.88	981.61	5	15	[Mar. 2000] Could not locate due to parked vehicles	Dec. 1991
B-2	12	978.53	978.06	3	15	[Mar. 2000] Could not locate	Nov. 1991
E-01	12	987.97	990.97	9	15	[Feb. 1995] Active (Quarterly)	Dec. 1999
E-03	12	986.9	989.26	11.6	10	[Feb. 1995] Active (Quarterly)	Dec. 1999
E-04*	12	986	987.98	11.6	10	[Feb. 1995] Active (Quarterly)	Dec. 1999
E-07*	12	983.33	982.87	4.6	15	[Feb. 1995] Active (Quarterly)	Dec. 1999
LS-02	12	983.61	983.32	8	10	[Feb. 1995] Active (Weekly, Quarterly)	Jan. 2000
LS-04	12	984.66	984.51	9	10	[Mar. 2000] Active (Weekly)	Jan. 2000
LS-10	12	985.38	985.26	8	15	[Feb. 1995] Active (Quarterly)	Dec. 1999
LS-11	12	983	982.72	9	15	[Jan. 2000] Active (Monthly)	Jan. 2000
LS-12	12	982.58	985.49	7	15	[Feb. 1995] Active (Weekly)	Jan. 2000
LS-13	12	985.06	984.65	10	15	[Feb. 1995] Active (Quarterly)	Dec. 1999

TABLE 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

SUMMARY OF RECENT WELL INVENTORY RESULTS

WELL ID	REMOVAL ACTION AREA NUMBER	GROUND ELEVATION (Feet AMSL)	MEASURING POINT ELEVATION (Feet AMSL)	DEPTH TO TOP OF SCREEN (Feet BGS	SCREEN LENGTH (Feet)	WELL INVENTORY DATE AND COMMENTS	DATE OF LAST MEASUREMENT
LS-20	12	985.78	985.64	8	10	[Feb. 1995] Active (Monthly)	Jan. 2000
LS-21	12	983.94	983.42	8	10	[Mar. 2000] Curb box in poor condition, Active (Weekly)	Jan. 2000
LS-22	12	985.2	985.20	22.25	5	[Feb. 1995]	Oct. 1994
LS-23	12	984.38	984.38	10	5.25	[Feb. 1995] Active (Monthly)	Jan. 2000
LS-24	12	986.58	986.58	10.45	11.45	[Feb. 1995] Active (Monthly)	Jan. 2000
LS-25	12	985	985.75	36.8	5	[Feb. 1995] Active (Quarterly)	Dec. 1999
LS-28*	12	983.6	986.06	8.6	15	[Feb. 1995] Active (Quarterly)	Dec. 1999
LS-29*	12	988.32	990.63	24.6	10	[Feb. 1995] Active (Quarterly)	Dec. 1999
LS-30	12	984.17	986.44	8.6	10	[Feb. 1995] Active (Weekly)	Jan. 2000
LS-31	12	984.86	987.09	10.6	10	[Feb. 1995] Active (Weekly)	Jan. 2000
LS-32	12	982.86	985.75	4.7	15	[Feb. 1995] Active (Weekly)	Jan. 2000
LS-33	12	983.4	986.42	7.6	10	[Feb. 1995] Active (Weekly)	Jan. 2000
LS-34	12	983	985.79	16	9.5	[Mar. 2000] Active (Weekly)	Jan. 2000
LS-35	12	984.74	986.80	8.6	10	[Feb. 1995] Active (Monthly)	Jan. 2000
LS-36	12	988.37	990.07	12.6	15	[Feb. 1995] Active (Quarterly)	Dec. 1999
LS-37	12	987.29	989.62	8.6	15	[Feb. 1995] Active (Quarterly)	Dec. 1999
LS-38	12	984.7	986.95	12.6	22.6	[Feb. 1995] Active (Weekly)	Jan. 2000
LS-41	12	983.86	986.41	5.2	14.5	[Feb. 1995] Active (Weekly)	Jan. 2000
LS-43	12	981.4	981.17	16.7	9.5	[Feb. 1995] Active (Weekly)	Jan. 2000
LS-44	12	981.3	980.78	16.7	9.5	[Feb. 1995] Active (Weekly)	Jan. 2000
LS-45	12	980.6	980.25	22.2	9.5	[Feb. 1995] Active (Weekly)	Jan. 2000
LSSC-01	12	985.22	986.82	24	10	[Installed Jan. 1999]	Feb. 1999
LSSC-03	12	987.05	988.83	8	9	[Installed Dec. 1998]	Feb. 1999
LSSC-04	12	987.01	988.77	11	10	[Installed Dec. 1998]	Feb. 1999
LSSC-05	12	983.31	984.74	6.5	10	[Installed Dec. 1998]	Feb. 1999
LSSC-06	12	983.44	984.91	8	10	[Installed Dec. 1998] Active (Weekly)	Jan. 2000
LSSC-07	12	982.88	982.48	16	10	[Installed Dec. 1998] Active (Weekly)	Jan. 2000
LSSC-08	12	983.6	983.13	13	10	[Installed Dec. 1998]	Feb. 1999
LSSC-08S*	12	983.64	983.11	5	10	[Installed Mar. 1999] Active (Weekly)	Jan. 2000
LSSC-09	12	983.35	985.06	6	10	[Installed Dec. 1998]	Feb. 1999
LSSC-10	12	985.33	987.05	34	5	[Installed Dec. 1998]	Feb. 1999
LSSC-16I	12	981.61	980.88	18	10	[Installed Mar. 1999]Active (Weekly)	Jan. 2000
LSSC-16S*	12	981.71	981.28	5	10	[Installed Mar. 1999]	Mar. 1999
LSSC-17	12	982.97	982.40	14	10	[Installed Mar. 1999]	May 1999
LSSC-18*	12	987.66	987.32	9	10	[Installed Mar. 1999] Active (Weekly)	Jan. 2000
LSSC-19	12	984.68	987.03	9	10	[Installed Mar. 1999]	May 1999
LSSC-32	12	980.89	980.68	26	10	[Installed July 1999]	Jan. 2000
LSSC-33	12	980.96	980.49	20	10	[Installed July 1999]	Jan. 2000
LSSC-34I	12	983.02	984.74	15	10	[Installed July 1999]	Jan. 2000

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GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

SUMMARY OF RECENT WELL INVENTORY RESULTS

WELL ID	REMOVAL ACTION AREA NUMBER	GROUND ELEVATION (Feet AMSL)	MEASURING POINT ELEVATION (Feet AMSL)	DEPTH TO TOP OF SCREEN (Feet BGS	SCREEN LENGTH (Feet)	WELL INVENTORY DATE AND COMMENTS	DATE OF LAST MEASUREMENT
LSSC-34S	12	982.9	985.01	5	10	[Installed July 1999]	Jan. 2000
MW-1	12	---	---	10	5	[Mar. 2000] Could not locate	Feb. 1993
MW-2*	12	---	---	11	5	[Mar. 2000] Could not locate due to parked vehicles	Feb. 1993
MW-3	12	---	---	10	5	[Mar. 2000] Curb box filled with soil	Feb. 1993
MW-4*	12	---	---	9	5	[Mar. 2000] Curb box destroyed, casing filled with soil, leaves	Feb. 1993
MW-5	12	---	---	5	15	[Mar. 2000] Could not locate	Feb. 1993
MW-6*	12	---	---	5	15	[Mar. 2000] Curb box destroyed, casing filled with soil, leaves	Feb. 1993
P-1	12	976.6	978.31	3.5	5	[Feb. 1995] Active (Weekly)	Jan. 2000
P-2	12	974.2	976.20	1	5	[Feb. 1995] Active (Monthly)	Jan. 2000
P-3	12	978.6	980.31	4.5	6	[Feb. 1995] Active (Weekly)	Jan. 2000
P-4	12	976.3	977.14	2.7	4.2	[Feb. 1995] Active (Weekly)	Jan. 2000
P-5	12	975.4	980.27	2.1	4.2	[Feb. 1995] Active (Monthly)	Jan. 2000
P-6	12	977.8	980.98	5.29	5	[Feb. 1995] Active (Weekly)	Jan. 2000
P-7	12	975.7	978.38	2.22	5	[Feb. 1995] Active (Weekly)	Jan. 2000
RW-1(R)	12	---	---	---	---	Active (Weekly); Recovery System in Place	Jan. 2000
RW-2	12	986	985.92	11	10	Active (Weekly); Recovery System in Place	Jan. 2000
RW-3	12	---	---	---	---	Active (Weekly); Recovery System in Place	Jan. 2000
F-1	13	983.54	986.49	3	15	[Sep. 1998]	Jan. 1996
GE-3	13	985.7	985.08	9.5	10	[Sep. 1998]	Jan. 1996
MW-1D	13	984.5	987.20	21.9	14.5	[Sep. 1998] Active (Weekly)	Jan. 2000
MW-1S	13	---	---	---	---	[Sep. 1998] Active (Weekly)	Jan. 2000
N2SC-01I	13	983.6	984.99	28	7	[Installed Oct. 1998] Active (Weekly); Recovery System in Place	Jan. 2000
N2SC-01S	13	983.51	985.10	10	10	[Installed Nov. 1998]	Feb. 1999
N2SC-02	13	983.28	985.07	26.5	10	[Installed Nov. 1998] Active (Weekly)	Jan. 2000
N2SC-03I	13	983.53	985.33	27	10	[Installed Nov. 1998] Active (Weekly)	Jan. 2000
N2SC-03S	13	983.68	985.18	10	10	[Installed Nov. 1998] Active (Weekly)	Jan. 2000
N2SC-04	13	979.87	981.56	19	10	[Installed Nov. 1998]	Feb. 1999
N2SC-05	13	980.65	982.64	23.5	10	[Installed Nov. 1998]	Feb. 1999
N2SC-06	13	983.94	985.27	23.5	10	[Installed Oct. 1998]	Feb. 1999
N2SC-07	13	982.89	984.61	25	10	[Installed Nov. 1998] Active (Monthly)	Jan. 2000
N2SC-08	13	983.7	986.07	29	10	[Installed Apr. 1999] Active (Weekly)	Jan. 2000
N2SC-09I	13	985.22	987.77	30	10	[Installed Apr. 1999] Active (Weekly)	Jan. 2000
N2SC-09S	13	985.37	987.84	5	10	[Installed Apr. 1999] Active (Weekly)	Jan. 2000
N2SC-11	13	985.65	988.05	25	10	[Installed Apr. 1999] Active (Monthly)	Jan. 2000
N2SC-12	13	985.57	987.26	28	10	[Installed Apr. 1999] Active (Monthly)	Jan. 2000
NS-01	13	983.5	983.40	7.5	10	[Sep. 1998]	Jan. 1996
NS-09*	13	983.2	982.46	5	15	[Sep. 1998]	Jan. 1996
NS-10	13	984.9	984.59	5	15	[Sep. 1998] Active (Weekly, Monthly)	Jan. 2000
NS-11	13	984.8	---	5	15	[Sep. 1998]	Jan. 1996

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GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

SUMMARY OF RECENT WELL INVENTORY RESULTS

WELL ID	REMOVAL ACTION AREA NUMBER	GROUND ELEVATION (Feet AMSL)	MEASURING POINT ELEVATION (Feet AMSL)	DEPTH TO TOP OF SCREEN (Feet BGS	SCREEN LENGTH (Feet)	WELL INVENTORY DATE AND COMMENTS	DATE OF LAST MEASUREMENT
NS-15	13	983.1	982.76	28	10	[Sep. 1998] Automated DNAPL Recovery System Active	
NS-16	13	984.7	984.46	10	10	[Sep. 1998]	Jan. 1996
NS-17*	13	982	984.64	6	10	[Sep. 1998]	Jan. 1996
NS-18	13	983.5	985.20	6	10	[Sep. 1998]	Jan. 1996
NS-19	13	983.6	985.72	6	10	[Sep. 1998]	Jan. 1996
NS-20*	13	985.6	985.29	6	10	[Sep. 1998]	Jan. 1996
NS-21	13	983.8	983.39	8	10	[Sep. 1998]	Jan. 1996
NS-23	13	987.7	987.42	10	10	[Sep. 1998]	Jan. 1996
NS-24*	13	984.5	984.37	8	10	[Sep. 1998]	Jan. 1996
NS-30	13	983.1	985.99	26.1	9.5	[Sep. 1998] Automated DNAPL Recovery System Active	
NS-31	13	983.4	986.05	25.9	9.5	[Sep. 1998] Active (Weekly)	Jan. 2000
NS-32	13	983.6	986.20	28.6	9.5	[Sep. 1998] Automated DNAPL Recovery System Active	
NS-33	13	985.3	987.21	6.1	9.5	[Sep. 1998] Active (Weekly)	Jan. 2000
NS-34	13	984.1	986.81	24.05	9.5	[Sep. 1998] Active (Weekly)	Jan. 2000
NS-35	13	980.4	0.00	18.85	9.5	[Sep. 1998] Active (Weekly)	Jan. 2000
NS-36	13	982.8	985.20	7.05	9.5	[Sep. 1998] Active (Weekly)	Jan. 2000
NS-37	13	983.6	986.20	11.05	9.5	[Sep. 1998] Active (Weekly)	Jan. 2000
PZ-1	13	976.7	978.12	3.08	5	Present in Jan. 1996	Jan. 1996
PZ-2	13	976.7	977.81	3.7	5	Present in Jan. 1996	Jan. 1996
FW-16R*	14	984.1	986.51	8	9.5	[Installed Mar. 1997]	Apr. 1997
IA-9R*	14	984.7	984.14	7.4	9.5	[Installed Mar. 1997]	Apr. 1997
MM-1*	14	988.5	988.11	5	10	[Mar. 1997] Well was re-developed	Mar. 1997
MM-2	14	984.6	984.41	5	10	[Installed Aug. 1993]	July 1994
MM-3	14	987.1	986.62	5	10	[Installed Aug. 1993]	July 1994
MW-1R	14	987.7	990.35	7.45	9.5	[Installed Mar. 1997]	Mar. 1997
MW-2R	14	986.8	988.80	9.5	9.5	[Installed Mar. 1997]	Mar. 1997
MW-3R	14	985.8	987.42	6.5	4.5	[Installed Mar. 1997]	Mar. 1997
QP-27	14	985.7	987.75	16.2	9.5	[Installed Feb. 1997]	Mar. 1997
SZ-1*	14	985.3	984.98	6	10	[Mar. 1997] Well was re-developed	Apr. 1997
SZ-3R	14	986.9	986.76	9	9.5	[Installed Mar. 1997]	Apr. 1997
31	18	998.7	998.70	2	20	Well abandoned during Merrill Rd. reconstruction	Sept. 1998
32	18	999.3	999.30	3	20	Well abandoned during Merrill Rd. reconstruction	Sept. 1998
33	18	999.5	999.50	3	20	[May 1995] PVC casing angled, Active (Semi-Annual)	Sept. 1999
34	18	999.9	999.90	3	20	[May 1995] Active (Monthly, Semi-Annual)	Jan. 2000
35	18	1000.2	1000.15	3	20	[May 1995] Active (Semi-Annual)	Sept. 1999
37	18	988.1	988.10	3	20	[May 1995] Well obstructed at 8 feet, Active (Semi-Annual)	Sept. 1999
38	18	988.7	988.70	5	20	[March 1996] Well could not be located	Nov. 1981
39	18	988.8	988.80	5	20	[March 1996] Well could not be located	Nov. 1981
40	18	989.8	989.80	5	25	[March 2000] Well could not be located	Nov. 1981

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41	18	987.1	987.10	5	20	[March 1996] Well could not be located	Nov. 1981
42	18	988.6	988.60	5	25	[March 1996] Well could not be located	Nov. 1981
43	18	989.2	989.20	5	30	[March 1996] Well could not be located	Nov. 1981
44	18	988.7	988.70	5	15	[March 1996] Well found to be paved over	Aug. 1981
45	18	1000.1	1000.10	2	20	[March 1996] Active (Semi-Annual)	Sept. 1999
46	18	999.8	999.80	2	20	[March 1996] Active (Semi-Annual)	Sept. 1999
47	18	999.7	999.70	2	20	[March 1996] Active (Semi-Annual); well cap missing -- riser too high for installation	Sept. 1999
48	18	999.3	999.30	2	20	[March 1996] Active (Semi-Annual); flushmount cover has hole in it; well has no cap	Sept. 1999
56	18	997.6	997.60	3	20	[March 1996] Active (Semi-Annual)	Sept. 1999
57	18	998.4	998.40	3	20	[March 1996] Active (Semi-Annual); well cap missing -- riser too high for installation	Sept. 1999
58	18	998.9	998.90	3	20	Well Decommissioned	June 1981
61	18	998.4	986.40	8	40	[March 1996] Well found to be paved over	Nov. 1981
62	18	999.1	989.07	2	20	[March 1996] Well found to be paved over	Apr. 1980
63	18	991.2	991.19	3	20	[March 1996] Well suspected to be paved over	Mar. 1980
64	18	993.3	993.27	3	20	[March 1996] Well found to be paved over	Apr. 1980
65	18	995.6	995.57	3	20	[March 1996] Well suspected to be paved over	Nov. 1981
66	18	987.6	987.55	3	20	[March 1996] Well found to be paved over	Nov. 1981
67	18	990.3	990.26	3	20	[March 1996] Well found to be paved over	Nov. 1981
68	18	992.0	992.01	5	15	[March 1996] Well found to be paved over	June 1981
70	18	990.5	990.53	3	20	[March 1996] Well could not be located	June 1980
71	18	988.67	988.67	3	20	[March 1996] Well could not be located	Apr. 1981
72	18	1000.6	1000.62	3	20	[March 1996] Active (Monthly, Semi-Annual)	Jan. 2000
73	18	999.8	999.77	3	20	[March 1996] Well could not be located	Fall 1989
74	18	999.4	999.39	3	20	[March 1996] Active (Semi-Annual)	Sept. 1999
75	18	1000.7	1000.65	3	20	[March 1996] Active (Semi-Annual)	Sept. 1999
76	18	1000.5	1000.45	3	20	[March 1996] Active (Semi-Annual)	Sept. 1999
77	18	990.3	990.26	6.5	25	[March 1996] Active (Semi-Annual)	Sept. 1999
78	18	997.6	997.61	2	20	Active (Semi-Annual); well could not be located (September 1999)	Apr. 1999
79	18	992.2	992.24	2	28	[March 1996] Active (Semi-Annual)	Sept. 1999
80	18	990.0	989.98	6.5	25	[March 1996] Active (Semi-Annual)	Sept. 1999
81	18	993.9	993.87	1	10	Well inaccessible since Spring 1993	
82	18	987.5	987.53	3	32	[March 1996] Well could not be located	Aug. 1981
83	18	987.8	987.78	4	17	[February 1996] Well inaccessible	Nov. 1981
84	18	986.6	986.61	3	23	[March 1996] Well could not be located	
85	18	986.4	986.40	5	25	Well abandoned (August 1998)	June 1998
86	18	990.9	990.86	5	25	[March 1996]	Mar. 1996
87	18	989.5	989.47	5	25	[March 1996]	Mar. 1996
88	18	989.5	989.46	6	25	[March 1996] Well could not be located	June 1981
89	18	993.9	993.89	1	10	[March 1996] Active (Semi-Annual)	Sept. 1999

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90	18	987.7	987.65	2	13	[February 1996]	Apr. 1996
92*	18	985.6	985.60	3	18	[March 1996] Well located, but access denied	Nov. 1981
94	18	996.8	996.75	2	18	Well found to be filled/destroyed (Spring 1997)	Spring 1996
95	18	989.2	989.17	2	18	[March 1996] Well could not be located, access denied	Nov. 1981
96	18	988.53	988.53	2	13	[March 1996] Well could not be located, access denied	Aug. 1981
97	18	1000.4	1000.43	0	15	[March 1996] Active (Semi-Annual)	Sept. 1999
98	18	990.8	990.76	1	15	[March 1996] Well could not be located, owner says well no longer exists	Apr. 1981
100	18	1001.3	1001.28	2	13	Well has not been found since Spring 1993	
108	18	1001.0	1001.02	3	15	Well Decommissioned	Spring 1986
109	18	1000.5	1000.46	3	15	Well Decommissioned	Spring 1982
110	18	1000.7	1000.70	4	10	Well Decommissioned	Spring 1982
111	18	999.7	1000.72	3	15	Well Decommissioned	Spring 1982
112	18	1000.0	1000.02	3	15	Well Decommissioned	Spring 1986
113	18	1000.3	1000.33	3	15	Well Decommissioned	Spring 1982
114	18	1000.3	1000.32	2	18	Well Decommissioned	Fall 1986
125	18	994.5	994.52	2	8	[March 1996] Active (Semi-Annual)	Sept. 1999
126	18	998.3	998.34	2	13	Well has not been found since Spring 1993	
134	18	990.5	990.53	2	13	[March 2000] Could not access	Apr. 1980
136	18	990.5	990.51	3	5	[February 1996] Well located in residential basement, access denied	
137	18	986.7	986.65	2	13	[February 1996]	Mar. 1996
138	18	988.18	988.18	15	5	[February 1996] PVC casing broken, Active (Semi-Annual)	Sept. 1999
139*	18	987.13	987.13	5	10	[March 1996]	Mar. 1996
Caisson-South	18	---	1001.11	4	12	Active (Weekly, Monthly); Recovery System in Place	
ES1-12	18	1000.99	1000.74	4	10	[March 1996] Active (Semi-Annual); standing water around PVC in casing	Sept. 1999
ES1-13	18	1000.03	999.93	4	10	[March 1996] Active (Semi-Annual); standing water around PVC in casing	Sept. 1999
ES1-23*	18	988.11	987.91	4	10	[March 1996] Active (Semi-Annual); water level at top of PVC	Sept. 1999
ES1-24	18	990.41	990.61	4	10	[March 1996] Active (Semi-Annual)	Sept. 1999

Notes:

1. Well inventory results reflect information obtained through March 2000 .
2. *: Proposed baseline monitoring program well.
3. ---: Information not available.
4. BOW: Bottom of well observations (e.g., hard bottom, soft sediment in well).
5. Active: Well is routinely monitored/observed/measured during a scheduled (weekly, monthly, and/or semi-annually) monitoring event.

TABLE 4

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED BASELINE GROUNDWATER MONITORING PROGRAM

WELL ID	REMOVAL ACTION AREA NUMBER	MONITORING WELL TYPE	RATIONALE	DEPTH TO TOP OF SCREEN (Feet BGS)	SCREEN LENGTH (Feet)	AVERAGE DEPTH TO GROUNDWATER (Feet BGS)
RF-4	1	PERIMETER (GW-3)	Upgradient perimeter	10	15	16.1
ES2-19	2	GW-2 SENTINEL	Upgradient of 30s Complex	11.5	8	13.6
RF-2	2	PERIMETER (GW-3)	Downgradient perimeter near Silver Lake	3	15	6.7
RF-3	2	GW-2 SENTINEL / PERIMETER (GW-3)	Downgradient perimeter near Silver Lake	3	15	9.7
RF-16	2	PERIMETER (GW-3)	Downgradient perimeter near Silver Lake	7	15	9.8
PROP-11	2	GW-2 SENTINEL	Proposed sentinel between 30s and 60s Complexes	-	-	-
PROP-16	2	GW-2 SENTINEL	Proposed sentinel in 30s Complex	-	-	-
PROP-17	2	GENERAL/SOURCE AREA SENTINEL (GW-3)	Deeper well paired with RF-3	-	-	-
PROP-18	2	GW-2 SENTINEL / GENERAL/SOURCE AREA SENTINEL (GW-3)	Proposed sentinel between 30s and 40s Complexes	-	-	-
95-23	3	GENERAL/SOURCE AREA SENTINEL (GW-3)	Sentinel downgradient of 20s Complex	10	10	10.8

See Notes on Page 6.

TABLE 4

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED BASELINE GROUNDWATER MONITORING PROGRAM

WELL ID	REMOVAL ACTION AREA NUMBER	MONITORING WELL TYPE	RATIONALE	DEPTH TO TOP OF SCREEN (Feet BGS)	SCREEN LENGTH (Feet)	AVERAGE DEPTH TO GROUNDWATER (Feet BGS)
U	3	GENERAL/SOURCE AREA SENTINEL (GW-3)	Sentinel downgradient of LNAPL area	4	25	21.0
64	4	PERIMETER (GW-3)	Downgradient perimeter	7	15	12.6
95-9	4	GENERAL/SOURCE AREA SENTINEL (GW-3)	Downgradient of plant	15	10	17.8
95-25	4	GW-2 SENTINEL	Sentinel in 60s Complex	8	10	11.1
3-6C-EB-14	4	PERIMETER (GW-3)	Downgradient perimeter	12	9.5	12.0
3-6C-EB-29	4	PERIMETER (GW-3)	Downgradient perimeter	4.8	14.5	9.9
ES2-2A	4	PERIMETER (GW-3)	Downgradient perimeter (Replaces previously proposed well ES2-2 due to more appropriate screen depth)	3	15	8.2
ES2-3	4	PERIMETER (GW-3)	Downgradient perimeter	18	10	11.5
ES2-5	4	GENERAL/SOURCE AREA SENTINEL (GW-3)	Sentinel in 60s Complex, downgradient of NAPL area	9	15	17.2
ES1-6	5	PERIMETER (GW-3)	Downgradient perimeter	18	10	8.6
ES2-8	4	PERIMETER (GW-3)	Downgradient perimeter	10	15	21.5

See Notes on Page 6.

TABLE 4

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED BASELINE GROUNDWATER MONITORING PROGRAM

WELL ID	REMOVAL ACTION AREA NUMBER	MONITORING WELL TYPE	RATIONALE	DEPTH TO TOP OF SCREEN (Feet BGS)	SCREEN LENGTH (Feet)	AVERAGE DEPTH TO GROUNDWATER (Feet BGS)
ES2-17	4	GENERAL/SOURCE AREA SENTINEL (GW-3)	Sentinel downgradient of NAPL Area	11	10	13.4
E2SC-23	4	PERIMETER (GW-3)	Downgradient perimeter near edge of sheetpile (formerly PROP-12)	9	10	15.5
E2SC-24	4	PERIMETER (GW-3)	Downgradient perimeter near edge of sheetpile (formerly PROP-12)	9	10	13.9
11	5	GENERAL/SOURCE AREA SENTINEL (GW-3)	Sentinel downgradient of plant area	5	20	14.3
17A	5	GW-2 PERIMETER	Upgradient perimeter near Bldg. 17	5	15	8.8
95-20	5	GW-2 SENTINEL	Near several buildings	10	10	14.0
ES1-10	5	GW-2 SENTINEL	Near Buildings 9 and 9-G	7	10.5	6.3
ES1-11	5	GW-2 SENTINEL	Downgradient of plant area and upgradient of commercial area (Replaces previously proposed well ES1-27)	5	10	1.3
ES1-18	5	GW-2 PERIMETER	Upgradient perimeter near Bldg. 14	4	10	7.5

See Notes on Page 6.

TABLE 4

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED BASELINE GROUNDWATER MONITORING PROGRAM

WELL ID	REMOVAL ACTION AREA NUMBER	MONITORING WELL TYPE	RATIONALE	DEPTH TO TOP OF SCREEN (Feet BGS)	SCREEN LENGTH (Feet)	AVERAGE DEPTH TO GROUNDWATER (Feet BGS)
ES1-20	5	PERIMETER (GW-3)	Upgradient perimeter	6	10	11.3
ES1-27R	5	GENERAL/SOURCE AREA SENTINEL (GW-3)	Sentinel downgradient of plant area and upgradient of commercial area (proposed replacement well)	-	-	15.2
PROP-14	5	GW-2 SENTINEL	Proposed sentinel near several buildings	-	-	-
52	6	GW-2 SENTINEL / GENERAL/SOURCE AREA SENTINEL (GW-3)	Along East Street near buildings	2	20	12.5
ES1-8	6	GW-2 SENTINEL / GENERAL/SOURCE AREA SENTINEL (GW-3)	Near north recovery system, upgradient of residential area	5	10	5.3
ES1-14	6	GW-2 SENTINEL / GENERAL/SOURCE AREA SENTINEL (GW-3)	Along East Street near commercial/residential area	10	10	8.5
B-1	12	PERIMETER (GW-3)	Downgradient perimeter	5	15	10.6
E-4	12	PERIMETER (GW-3)	Downgradient perimeter	11.6	10	13.3
E-7	12	PERIMETER (GW-3)	Downgradient of Silver Lake, upgradient of former Oxbow E	4.6	15	7.2
LS-28	12	PERIMETER (GW-3)	Downgradient of Silver Lake, upgradient of former Oxbow D	8.6	15	8.6

See Notes on Page 6.

TABLE 4

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED BASELINE GROUNDWATER MONITORING PROGRAM

WELL ID	REMOVAL ACTION AREA NUMBER	MONITORING WELL TYPE	RATIONALE	DEPTH TO TOP OF SCREEN (Feet BGS)	SCREEN LENGTH (Feet)	AVERAGE DEPTH TO GROUNDWATER (Feet BGS)
LS-29	12	GENERAL/SOURCE AREA SENTINEL (GW-3)	Downgradient of Silver Lake, upgradient of river	24.6	10	14.0
LSSC-8S	12	PERIMETER (GW-3)	Downgradient perimeter, near sheetpile	5	10	11.5
LSSC-16S	12	GW-2 SENTINEL	Near building	5	10	7.8
LSSC-18	12	PERIMETER (GW-3)	Downgradient perimeter, near sheetpile	9	10	14.4
MW-2	12	GW-2 SENTINEL	Upgradient of former Oxbow B, near building	N/A	N/A	8.9
MW-4	12	PERIMETER (GW-3)	Downgradient perimeter	N/A	N/A	10.6
MW-6	12	PERIMETER (GW-3)	Upgradient of Lyman Street Area	N/A	N/A	13.2
PROP-9	12	PERIMETER (GW-3)	Proposed downgradient perimeter	-	-	-
NS-9	13	PERIMETER (GW-3)	Downgradient perimeter	5	15	11.2
NS-17	13	PERIMETER (GW-3)	Downgradient perimeter	6	10	10.0

See Notes on Page 6.

TABLE 4

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED BASELINE GROUNDWATER MONITORING PROGRAM

WELL ID	REMOVAL ACTION AREA NUMBER	MONITORING WELL TYPE	RATIONALE	DEPTH TO TOP OF SCREEN (Feet BGS)	SCREEN LENGTH (Feet)	AVERAGE DEPTH TO GROUNDWATER (Feet BGS)
NS-20	13	PERIMETER (GW-3)	Upgradient perimeter	6	10	6.7
NS-24	13	PERIMETER (GW-3)	Downgradient perimeter	8	10	11.8
N2SC-7S	13	PERIMETER (GW-3)	Downgradient perimeter, near NAPL (proposed well)	-	-	-
FW-16R	14	PERIMETER (GW-3)	Downgradient perimeter	8	9.5	10.2
IA-9R	14	PERIMETER (GW-3)	Downgradient perimeter	7.4	9.5	10.7
MM-1	14	GW-2 SENTINEL	Upgradient, near building	5	10	12.0
SZ-1	14	GW-2 SENTINEL / PERIMETER (GW-3)	Upgradient perimeter, near building	6	10	8.4
92	18	PERIMETER (GW-2/GW-3)	Downgradient perimeter	3	18	12.7
139	18	PERIMETER (GW-2 & GW-3)	Downgradient perimeter	5	10	11.2
ES1-23	18	PERIMETER (GW-2 & GW-3)	Downgradient perimeter	4	10	4.1

Notes:

1. -: Construction data not available for proposed well.
2. N/A: Information not available. Data will be obtained during well inventory conducted prior to initiation of Baseline Monitoring Program.
3. Removal Action Areas:

RAA 1: 40s Complex
RAA 2: 30s Complex
RAA 3: 20s Complex
RAA 4: East Street Area 2 - South
RAA 5: East Street Area 2 - North
RAA 6: East Street Area 1-North
RAA 12: Lyman Street Area
RAA 13: Newell Street Area II
RAA 14: Newell Street Area I
RAA 18: East Street Area 1-South (NAPL/Groundwater only)

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED NAPL MONITORING PROGRAM MODIFICATIONS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS	PROPOSED MONITORING PROGRAM	RATIONALE
95-17	40s Complex	Semi-Annual Monitoring	Remove from program	Outside known NAPL extent, area covered by well RF-4.
RF-04	40s Complex	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
95-15	30s Complex	Semi-Annual Monitoring	Remove from program	Outside known NAPL extent, area covered by well RF-16.
95-16	30s Complex	Semi-Annual Monitoring	Remove from program	Outside known NAPL extent, area covered by proposed well PROP-16 and ES2-19.
ES2-19	30s Complex	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
RF-02	30s Complex	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
RF-03	30s Complex	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
RF-16	30s Complex	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
60	20s Complex	Semi-Annual Monitoring	Retain/Replace	Well abandoned during Merrill Road reconstruction. Replace with well 60R and continue semi-annual program after road construction is complete.
95-23	20s Complex	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
CC	20s Complex	Semi-Annual Monitoring	Retain	
EE	20s Complex	Semi-Annual Monitoring	Retain	
FF	20s Complex	Semi-Annual Monitoring	Retain	
GG	20s Complex	Semi-Annual Monitoring	Retain	
HH	20s Complex	Semi-Annual Monitoring	Remove from program	Well is lost, damaged, or destroyed. Recent monitoring events have utilized well II.
II	20s Complex	Semi-Annual Monitoring	Retain	Add as permanent replacement for well HH.
J	20s Complex	Semi-Annual Monitoring	Remove from program	Well abandoned as part of Merrill Road reconstruction. No need to replace as location is in center of known NAPL area and nearby well U provides coverage.

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED NAPL MONITORING PROGRAM MODIFICATIONS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS	PROPOSED MONITORING PROGRAM	RATIONALE
19	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
21	East Street Area 2 - South	Semi-Annual Monitoring	Remove from monitoring program	Well located outside known NAPL extent. Well 95-1 provides sufficient coverage in this area.
22	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
25	East Street Area 2 - South	Semi-Annual Monitoring	Retain/Replace	Well abandoned during Merrill Road reconstruction. Replace with well 25R and add to program after construction is complete.
26	East Street Area 2 - South	Semi-Annual Monitoring	Retain/Replace	Well abandoned during Merrill Road reconstruction. Replace with well 26R and add to program after construction is complete.
27	East Street Area 2 - South	Semi-Annual Monitoring	Remove from monitoring program/Do not replace	Well abandoned during Merrill Road reconstruction. Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area. No reason to replace after construction is complete.
28	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Monitoring	Semi-Annual Monitoring	Well previously contained DNAPL, but none observed recently.
29	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Monitoring	Semi-Annual Monitoring	Within known limits of LNAPL plume, near 64R recovery system.
31	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
32	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Monitoring	Retain	
34	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
35	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Monitoring	Semi-Annual Monitoring	NAPL consistently not observed, near active recovery system (64S).
36	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Monitoring	Retain	
37	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Monitoring	Retain	
38	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Monitoring	Retain	
39	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
42	East Street Area 2 - South	Weekly Monitoring / Semi-Annual Monitoring	Monthly Monitoring / Semi-Annual Monitoring	Within area of hydraulic control by recharge pond, slurry wall, several recovery wells, and downgradient containment barrier.
43	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Sampling / Semi-Annual Monitoring	Semi-Annual Monitoring	Recharge pond area sampling program proposed to be discontinued.

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED NAPL MONITORING PROGRAM MODIFICATIONS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS	PROPOSED MONITORING PROGRAM	RATIONALE
JJ	20s Complex	Semi-Annual Monitoring	Retain	
K	20s Complex	Semi-Annual Monitoring	Retain/Replace	Well abandoned as part of Merrill Road reconstruction. Following completion of construction, area to be monitored with replacement wells M-R andP-R.
KK	20s Complex	Semi-Annual Monitoring	Remove from monitoring program	Nearby well N-R will be monitored.
LL	20s Complex	Semi-Annual Monitoring	Retain/Replace	Well abandoned as part of Merrill Road reconstruction. Replace following completion of construction with well LL-R.
MM	20s Complex	Semi-Annual Monitoring	Remove from monitoring program/Do not replace	Well abandoned during Merrill Road reconstruction. Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area. No reason to replace after construction is complete.
N-R	20s Complex	Semi-Annual Monitoring	Retain	
NN	20s Complex	Semi-Annual Monitoring	Remove from monitoring program/Do not replace	Well abandoned during Merrill Road reconstruction. Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area. No reason to replace after construction is complete.
O-R	20s Complex	Semi-Annual Monitoring	Retain	
OO	20s Complex	Semi-Annual Monitoring	Remove from monitoring program/Do not replace	Well abandoned as part of Merrill Road reconstruction. Wells EE and FF provide coverage in area.
PP	20s Complex	Semi-Annual Monitoring	Remove from monitoring program/Do not replace	Well abandoned as part of Merrill Road reconstruction. Well DD provides coverage in area.
QQ	20s Complex	Semi-Annual Monitoring	Retain/Replace	Well abandoned as part of Merrill Road reconstruction. Replace following completion of construction with well QQ-R.

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED NAPL MONITORING PROGRAM MODIFICATIONS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS	PROPOSED MONITORING PROGRAM	RATIONALE
R	20s Complex	Semi-Annual Monitoring	Remove from monitoring program/Do not replace	Well abandoned as part of Merrill Road reconstruction. No need to replace as location is in center of known NAPL area and nearby well U provides coverage.
U	20s Complex	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
UU-R	20s Complex	Semi-Annual Monitoring	Retain	
Y	20s Complex	Semi-Annual Monitoring	Retain	
01R	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
2	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Monitoring	Semi-Annual Monitoring	Within known limits of NAPL, near active recovery system (40R/64R).
5	East Street Area 2 - South	Monthly Monitoring	Semi-Annual Monitoring	Within known limits of NAPL, near active recovery system (64S).
05A	East Street Area 2 - South	Semi-Annual Monitoring	Remove from monitoring program/Do not replace	Well abandoned during Merrill Road reconstruction. Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area. No reason to replace after construction is complete.
6	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Monitoring	Semi-Annual Monitoring	NAPL consistently not observed, near active recovery system (64S).
8	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Monitoring	Semi-Annual Monitoring	Within known limits of NAPL, near active recovery systems (64S and RW-1(S)).
09R	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
10	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
11R	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
13	East Street Area 2 - South	Weekly Monitoring / Semi-Annual Monitoring	Retain/Assess	Automated pumping assessment proposed.
14	East Street Area 2 - South	Weekly Monitoring / Semi-Annual Monitoring	Retain/Assess	Automated pumping assessment proposed.
15R	East Street Area 2 - South	Weekly Monitoring / Semi-Annual Monitoring	Retain/Assess	Automated pumping assessment proposed.
16R	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
17R	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
18	East Street Area 2 - South	Semi-Annual Monitoring	Remove from monitoring program	Comparable to program well ES2-3.

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED NAPL MONITORING PROGRAM MODIFICATIONS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS	PROPOSED MONITORING PROGRAM	RATIONALE
44	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Sampling / Semi-Annual Monitoring	Semi-Annual Monitoring	Recharge pond area sampling program proposed to be discontinued.
47	East Street Area 2 - South	Monthly Monitoring	Semi-Annual Monitoring	Within known limits of LNAPL plume, near 64V recovery system.
48	East Street Area 2 - South	Weekly Monitoring / Semi-Annual Monitoring	Monthly Monitoring / Semi-Annual Monitoring	
49R	East Street Area 2 - South	Weekly Monitoring / Semi-Annual Monitoring	Retain	
49RR	East Street Area 2 - South	Weekly Monitoring / Semi-Annual Monitoring	Retain	
50	East Street Area 2 - South	Weekly Monitoring / Semi-Annual Monitoring	Retain	
51	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Monitoring	Retain	
52	East Street Area 2 - South	Semi-Annual Monitoring	Monthly Monitoring / Semi-Annual Monitoring	
53	East Street Area 2 - South	Weekly Monitoring / Semi-Annual Monitoring	Retain	
54	East Street Area 2 - South	Weekly Monitoring / Semi-Annual Monitoring	Retain	
55	East Street Area 2 - South	Weekly Monitoring / Semi-Annual Monitoring	Monthly Monitoring	
56	East Street Area 2 - South	Weekly Monitoring / Semi-Annual Monitoring	Monthly Monitoring	Within area of hydraulic control by recharge pond, slurry wall, several recovery wells, and downgradient containment barrier.
57	East Street Area 2 - South	Weekly Monitoring / Semi-Annual Monitoring	Monthly Monitoring	Within area of hydraulic control by recharge pond, slurry wall, several recovery wells, and downgradient containment barrier.
58	East Street Area 2 - South	Weekly Monitoring / Semi-Annual Monitoring	Monthly Monitoring	Within area of hydraulic control by downgradient containment barrier.
59	East Street Area 2 - South	Weekly Monitoring / Semi-Annual Monitoring	Monthly Monitoring	Within area of hydraulic control by recharge pond, slurry wall, several recovery wells, and downgradient containment barrier.
60	East Street Area 2 - South	Semi-Annual Monitoring	Remove from monitoring program/Do not replace	Well abandoned during Merrill Road reconstruction. Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area. No reason to replace after construction is complete.

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED NAPL MONITORING PROGRAM MODIFICATIONS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS	PROPOSED MONITORING PROGRAM	RATIONALE
61	East Street Area 2 - South	Semi-Annual Monitoring	Abandon	Within future City Recreation Area. Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area.
62	East Street Area 2 - South	Semi-Annual Monitoring	Monthly Monitoring / Semi-Annual Monitoring	Well located within former oxbow.
63	East Street Area 2 - South	Weekly Monitoring / Semi-Annual Monitoring	Monthly Monitoring	Within area of hydraulic control by recovery well RW-2(X) and downgradient containment barrier.
64	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
64S2	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
64X (N)	East Street Area 2 - South	Active / Weekly Monitoring / Semi-Annual Monitoring	Monthly Monitoring	
64X (S)	East Street Area 2 - South	Active / Weekly Monitoring / Semi-Annual Monitoring	Monthly Monitoring	
64X (W)	East Street Area 2 - South	Active / Weekly Monitoring / Semi-Annual Monitoring	Monthly Monitoring	
65	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
66	East Street Area 2 - South	Weekly Monitoring / Semi-Annual Monitoring	Retain	
95-01	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
95-02	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
95-04	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
95-05	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
95-06	East Street Area 2 - South	Semi-Annual Monitoring	Remove from program	Screen placement too deep, area covered by well 63.
95-07	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
95-09	East Street Area 2 - South	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
95-19	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
95-25	East Street Area 2 - South	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED NAPL MONITORING PROGRAM MODIFICATIONS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS	PROPOSED MONITORING PROGRAM	RATIONALE
C60	East Street Area 2 - South	Semi-Annual Monitoring	Monthly Monitoring / Semi-Annual Monitoring	Well located within former oxbow.
E2SC-03I	East Street Area 2 - South	Weekly Monitoring	Retain	
E2SC-17	East Street Area 2 - South	Weekly Monitoring	Retain	
E2SC-21	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
E2SC-22	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
E2SC-23	East Street Area 2 - South	Weekly Monitoring	Weekly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
E2SC-24	East Street Area 2 - South	Weekly Monitoring	Weekly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
E2SC-25	East Street Area 2 - South	Monthly Monitoring	Retain	
Eastern Caisson	East Street Area 2 - South	Semi-Annual Monitoring	Abandon	Within future City Recreation Area.
3-6C-EB-14	East Street Area 2 - South	None	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
3-6C-EB-25	East Street Area 2 - South	Weekly Monitoring	Retain	
3-6C-EB-26	East Street Area 2 - South	Monthly Monitoring	Retain	
3-6C-EB-28	East Street Area 2 - South	Weekly Monitoring	Retain	
3-6C-EB-29	East Street Area 2 - South	Monthly Monitoring	Monthly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
ES2-01	East Street Area 2 - South	Monthly Monitoring	Quarterly Monitoring	To be utilized to monitor vertical hydraulic gradient in area.
ES2-02	East Street Area 2 - South	None	Quarterly Monitoring	Originally proposed for sampling as part of Baseline Monitoring Program, but ES2-02A screen placement is preferable for GW-3 monitoring. Retain as intermediate elevation location in triplet with ES2-02A and ES2-07.
ES2-02A	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as replacement for ES2-02 inBaseline Monitoring Program.
ES2-03	East Street Area 2 - South	None	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED NAPL MONITORING PROGRAM MODIFICATIONS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS	PROPOSED MONITORING PROGRAM	RATIONALE
ES2-04	East Street Area 2 - South	Semi-Annual Monitoring	Monthly Monitoring / Semi-Annual Sampling	
ES2-05	East Street Area 2 - South	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
ES2-06	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Monitoring	Retain	
ES2-07	East Street Area 2 - South	Monthly Monitoring	Quarterly Monitoring	Location is outside known NAPL extent. Retain as deep elevation location in triplet with ES2-02A and ES2-02.
ES2-08	East Street Area 2 - South	Semi-Annual Monitoring	Monthly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
ES2-09	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
ES2-10	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
ES2-11	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
ES2-12	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
ES2-14	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
ES2-15	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
ES2-16	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
ES2-17	East Street Area 2 - South	Weekly Monitoring / Semi-Annual Monitoring	Monthly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
ES2-18	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
P1	East Street Area 2 - South	Semi-Annual Monitoring	Remove from program	Nearby wells provide coverage.
P2	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
P3	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Monitoring	Retain	
P3D	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Monitoring	Retain	
P4	East Street Area 2 - South	Semi-Annual Monitoring	Remove from program	Nearby wells provide coverage.
P5	East Street Area 2 - South	Semi-Annual Monitoring	Remove from program	Nearby wells provide coverage.
P6	East Street Area 2 - South	Semi-Annual Sampling / Semi-Annual Monitoring	Semi-Annual Monitoring	Recharge pond area sampling program proposed to be discontinued.
P7	East Street Area 2 - South	Monthly Monitoring / Semi-Annual Monitoring	Retain	
PZ-1S	East Street Area 2 - South	Weekly Monitoring	Monthly Monitoring	Location within sheetpile area and near active recovery well RW-2(X).
PZ-2S	East Street Area 2 - South	Monthly Monitoring	Retain	

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED NAPL MONITORING PROGRAM MODIFICATIONS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS	PROPOSED MONITORING PROGRAM	RATIONALE
PZ-4S	East Street Area 2 - South	Monthly Monitoring	Retain	
PZ-6S	East Street Area 2 - South	Weekly Monitoring	Monthly Monitoring	Location within sheetpile area and near active recovery well RW-1(X).
RB-01	East Street Area 2 - South	Monthly Monitoring	Retain	
RF-01	East Street Area 2 - South	Semi-Annual Monitoring	Retain	
RW-3(X)	East Street Area 2 - South	Weekly Monitoring	Retain	Will switch to active pumping following completion of riverbank remediation activities near 64X.
TMP-1	East Street Area 2 - South	Weekly Monitoring	Retain	
02-N	East Street Area 2 - North	Semi-Annual Monitoring	Remove from monitoring program	Beyond lateral NAPL limits.
05-N	East Street Area 2 - North	Weekly Monitoring / Semi-Annual Monitoring	Retain	
06-N	East Street Area 2 - North	Semi-Annual Monitoring	Retain	
09-N	East Street Area 2 - North	Semi-Annual Monitoring	Retain	
11	East Street Area 2 - North	None	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
11-N	East Street Area 2 - North	Semi-Annual Monitoring	Retain	
13-N	East Street Area 2 - North	Semi-Annual Monitoring	Remove from monitoring program	Beyond lateral NAPL limits.
14-N	East Street Area 2 - North	Semi-Annual Monitoring	Retain	
16-N	East Street Area 2 - North	Semi-Annual Monitoring	Retain	
17-N	East Street Area 2 - North	Semi-Annual Monitoring	Retain	
17A	East Street Area 2 - North	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
17C	East Street Area 2 - North	Semi-Annual Monitoring	Remove from monitoring program	Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area.
19-N	East Street Area 2 - North	Semi-Annual Monitoring	Retain	
20-N	East Street Area 2 - North	Semi-Annual Monitoring	Retain	
21-N	East Street Area 2 - North	Semi-Annual Monitoring	Retain	
22-N	East Street Area 2 - North	Semi-Annual Monitoring	Retain	
23-N	East Street Area 2 - North	Semi-Annual Monitoring	Retain	
24-N	East Street Area 2 - North	Semi-Annual Monitoring	Retain	

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED NAPL MONITORING PROGRAM MODIFICATIONS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS	PROPOSED MONITORING PROGRAM	RATIONALE
27-N	East Street Area 2 - North	Semi-Annual Monitoring	Retain	
31-N	East Street Area 2 - North	Semi-Annual Monitoring	Remove from monitoring program	Beyond lateral NAPL limits.
95-12	East Street Area 2 - North	Semi-Annual Monitoring	Remove from monitoring program	Nearby well 11-N will be monitored.
95-20	East Street Area 2 - North	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
A7	East Street Area 2 - North	Semi-Annual Monitoring	Remove from monitoring program	Beyond lateral NAPL limits.
C1	East Street Area 2 - North	Semi-Annual Monitoring	Remove from monitoring program	Beyond lateral NAPL limits.
ES1-01	East Street Area 2 - North	Semi-Annual Monitoring	Remove from monitoring program/Do not replace	Well abandoned during Merrill Road reconstruction. Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area. No reason to replace after construction is complete.
ES1-04	East Street Area 2 - North	Semi-Annual Monitoring	Remove from monitoring program/Do not replace	Well abandoned during Merrill Road reconstruction. Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area. No reason to replace after construction is complete.
ES1-05	East Street Area 2 - North	Semi-Annual Monitoring	Remove from monitoring program	Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area.
ES1-06	East Street Area 2 - North	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
ES1-10	East Street Area 2 - North	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
ES1-11	East Street Area 2 - North	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
ES1-18	East Street Area 2 - North	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
ES1-19	East Street Area 2 - North	Semi-Annual Monitoring	Remove from monitoring program	Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area.

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED NAPL MONITORING PROGRAM MODIFICATIONS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS	PROPOSED MONITORING PROGRAM	RATIONALE
ES1-20	East Street Area 2 - North	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
ES1-21	East Street Area 2 - North	Semi-Annual Monitoring	Remove from monitoring program/Do not replace	Well abandoned during Merrill Road reconstruction. Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area. No reason to replace after construction is complete.
ES1-22	East Street Area 2 - North	Semi-Annual Monitoring	Remove from monitoring program/Do not replace	Well abandoned during Merrill Road reconstruction. Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area. No reason to replace after construction is complete.
ES1-25	East Street Area 2 - North	Semi-Annual Monitoring	Remove from monitoring program	Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area.
ES1-27	East Street Area 2 - North	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Well abandoned during Merrill Road reconstruction. Proposed as part of Baseline Monitoring Program. Replacement well will be installed.
ES1-29	East Street Area 2 - North	Semi-Annual Monitoring	Remove from monitoring program/Do not replace	Well abandoned during Merrill Road reconstruction. Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area. No reason to replace after construction is complete.
RF-13	East Street Area 2 - North	Semi-Annual Monitoring	Remove from monitoring program/Do not replace	Well abandoned during Merrill Road reconstruction. Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area. No reason to replace after construction is complete.
6	East Street Area 1 - North	Semi-Annual Monitoring	Retain	
8	East Street Area 1 - North	Semi-Annual Monitoring	Remove from monitoring program	Nearby well 118 will be monitored.
25	East Street Area 1 - North	Semi-Annual Monitoring	Retain	

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED NAPL MONITORING PROGRAM MODIFICATIONS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS	PROPOSED MONITORING PROGRAM	RATIONALE
30	East Street Area 1 - North	Semi-Annual Monitoring	Remove from monitoring program	Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area.
52	East Street Area 1 - North	Monthly Monitoring / Semi-Annual Monitoring	Retain	
103	East Street Area 1 - North	Semi-Annual Monitoring	Remove from monitoring program	Nearby well ES1-8 will be monitored.
105	East Street Area 1 - North	Monthly Monitoring / Semi-Annual Monitoring	Retain	
106	East Street Area 1 - North	Monthly Monitoring / Semi-Annual Monitoring	Retain	
107	East Street Area 1 - North	Semi-Annual Monitoring	Retain	
108A	East Street Area 1 - North	Semi-Annual Monitoring	Retain	
109A	East Street Area 1 - North	Semi-Annual Monitoring	Retain	
118	East Street Area 1 - North	Semi-Annual Monitoring	Retain	
119	East Street Area 1 - North	Semi-Annual Monitoring	Remove from monitoring program	Nearby well 118 will be monitored.
120	East Street Area 1 - North	Semi-Annual Monitoring	Retain	
127	East Street Area 1 - North	Semi-Annual Monitoring	Retain	
128	East Street Area 1 - North	Semi-Annual Monitoring	Retain	
130	East Street Area 1 - North	Semi-Annual Monitoring	Retain	
131	East Street Area 1 - North	Monthly Monitoring / Semi-Annual Monitoring	Retain	
140	East Street Area 1 - North	Semi-Annual Monitoring	Retain	
141	East Street Area 1 - North	Semi-Annual Monitoring	Retain	
ES1-07	East Street Area 1 - North	Semi-Annual Monitoring	Remove from monitoring program	Nearby well 109A will be monitored.
ES1-08	East Street Area 1 - North	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
ES1-09	East Street Area 1 - North	Semi-Annual Monitoring	Remove from monitoring program	Proposed replacement well 60R and well 141 provide coverage in area.
ES1-14	East Street Area 1 - North	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
E-01	Lyman Street Area	Quarterly Monitoring	Remove from monitoring program	Nearby well LS-29 will be monitored.
E-03	Lyman Street Area	Quarterly Monitoring	Remove from monitoring program	Nearby well E-4 will be monitored.

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED NAPL MONITORING PROGRAM MODIFICATIONS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS	PROPOSED MONITORING PROGRAM	RATIONALE
E-04	Lyman Street Area	Quarterly Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
E-07	Lyman Street Area	Quarterly Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
LS-02	Lyman Street Area	Weekly Monitoring	Retain	
LS-04	Lyman Street Area	Weekly Monitoring	Retain	
LS-10	Lyman Street Area	Quarterly Monitoring	Remove from monitoring program	Well located outside known NAPL extent. Other wells provide sufficient coverage in this area.
LS-11	Lyman Street Area	Monthly Monitoring	Retain	
LS-12	Lyman Street Area	Weekly Monitoring	Retain	
LS-13	Lyman Street Area	Quarterly Monitoring	Monthly Monitoring	
LS-20	Lyman Street Area	Monthly Monitoring	Retain	
LS-21	Lyman Street Area	Weekly Monitoring	Retain	
LS-24	Lyman Street Area	Monthly Monitoring	Retain	
LS-25	Lyman Street Area	Quarterly Monitoring	Retain	
LS-28	Lyman Street Area	Quarterly Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
LS-29	Lyman Street Area	Quarterly Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
LS-30	Lyman Street Area	Weekly Monitoring	Retain	
LS-31	Lyman Street Area	Weekly Monitoring	Retain	
LS-32	Lyman Street Area	Weekly Monitoring	Monthly Monitoring	Well in known NAPL area which will be contained by sheetpile barrier, limited NAPL quantities removed during current weekly monitoring.
LS-33	Lyman Street Area	Weekly Monitoring	Monthly Monitoring	
LS-34	Lyman Street Area	Weekly Monitoring	Retain	
LS-35	Lyman Street Area	Monthly Monitoring	Retain	
LS-36	Lyman Street Area	Quarterly Monitoring	Remove from monitoring program	Located outside known NAPL areas and other wells are present closer to edge of NAPL extent.
LS-37	Lyman Street Area	Quarterly Monitoring	Remove from monitoring program	Located outside known NAPL areas and other wells are present closer to edge of NAPL extent.

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED NAPL MONITORING PROGRAM MODIFICATIONS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS	PROPOSED MONITORING PROGRAM	RATIONALE
LS-38	Lyman Street Area	Weekly Monitoring	Retain	
LS-41	Lyman Street Area	Weekly Monitoring	Monthly Monitoring	Well in known NAPL area which will be contained by sheetpile barrier, located near active recovery well RW-2.
LS-43	Lyman Street Area	Weekly Monitoring	Monthly Monitoring	
LS-44	Lyman Street Area	Weekly Monitoring	Monthly Monitoring	Located outside known NAPL areas and other wells are present closer to edge of NAPL extent.
LS-45	Lyman Street Area	Weekly Monitoring	Monthly Monitoring	Located outside known NAPL areas and other wells are present closer to edge of NAPL extent.
LSSC-06	Lyman Street Area	Weekly Monitoring	Monthly Monitoring	
LSSC-07	Lyman Street Area	Three Monitoring Events per Week	Retain	
LSSC-8S	Lyman Street Area	Weekly Monitoring	Weekly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program
LSSC-16I	Lyman Street Area	Weekly Monitoring	Retain	
LSSC-16S	Lyman Street Area	None	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
LSSC-18	Lyman Street Area	Weekly Monitoring	Retain	
LSSC-32	Lyman Street Area	Weekly Monitoring	Monthly Monitoring	
LSSC-33	Lyman Street Area	Weekly Monitoring	Monthly Monitoring	
LSSC-34I	Lyman Street Area	Weekly Monitoring	Retain	
LSSC-34S	Lyman Street Area	Weekly Monitoring	Retain	
P-1	Lyman Street Area	Weekly Monitoring	Retain	Re-evaluate/replace after installation of sheetpile barrier.
P-2	Lyman Street Area	Monthly Monitoring	Retain	Re-evaluate/replace after installation of sheetpile barrier.
P-3	Lyman Street Area	Weekly Monitoring	Retain	Re-evaluate/replace after installation of sheetpile barrier.
P-4	Lyman Street Area	Weekly Monitoring	Retain	Re-evaluate/replace after installation of sheetpile barrier.
P-5	Lyman Street Area	Monthly Monitoring	Retain	Re-evaluate/replace after installation of sheetpile barrier.

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED NAPL MONITORING PROGRAM MODIFICATIONS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS	PROPOSED MONITORING PROGRAM	RATIONALE
P-6	Lyman Street Area	Weekly Monitoring	Retain	Re-evaluate/replace after installation of sheetpile barrier.
P-7	Lyman Street Area	Weekly Monitoring	Retain	Re-evaluate/replace after installation of sheetpile barrier.
MW-1D	Newell Street Area II	Weekly Monitoring	Retain	
MW-1S	Newell Street Area II	Weekly Monitoring	Retain	
N2SC-01I	Newell Street Area II	Active Pumping	Retain	
N2SC-02	Newell Street Area II	Active Pumping Proposed	Retain	
N2SC-03I	Newell Street Area II	Active Pumping Proposed	Retain	
N2SC-03S	Newell Street Area II	Weekly Monitoring	Retain	
N2SC-07	Newell Street Area II	Monthly Monitoring	Retain	
N2SC-08	Newell Street Area II	Weekly Monitoring	Retain	
N2SC-09I	Newell Street Area II	Weekly Monitoring	Retain	
N2SC-09S	Newell Street Area II	Weekly Monitoring	Retain	
N2SC-11	Newell Street Area II	Monthly Monitoring	Quarterly Monitoring	
N2SC-12	Newell Street Area II	Monthly Monitoring	Quarterly Monitoring	
NS-01	Newell Street Area II	Quarterly Monitoring	Retain	
NS-09	Newell Street Area II	Quarterly Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
NS-10	Newell Street Area II	Weekly Monitoring	Retain	
NS-11	Newell Street Area II	Quarterly Monitoring	Retain	
NS-15	Newell Street Area II	Active Pumping	Retain	
NS-16	Newell Street Area II	Quarterly Monitoring	Retain	
NS-17	Newell Street Area II	Quarterly Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
NS-18	Newell Street Area II	Quarterly Monitoring	Remove from monitoring program	
NS-19	Newell Street Area II	Quarterly Monitoring	Remove from monitoring program	Nearby well N2SC-08 will be monitored.
NS-20	Newell Street Area II	Quarterly Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED NAPL MONITORING PROGRAM MODIFICATIONS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS	PROPOSED MONITORING PROGRAM	RATIONALE
NS-21	Newell Street Area II	Quarterly Monitoring	Retain	
NS-23	Newell Street Area II	Quarterly Monitoring	Remove from monitoring program	
NS-24	Newell Street Area II	None	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
NS-30	Newell Street Area II	Active Pumping	Retain	
NS-31	Newell Street Area II	Weekly Monitoring	Monthly Monitoring	
NS-32	Newell Street Area II	Active Pumping	Retain	
NS-33	Newell Street Area II	Weekly Monitoring	Remove from monitoring program	Outside known NAPL extent.
NS-34	Newell Street Area II	Weekly Monitoring	Quarterly Monitoring	Outside known NAPL extent.
NS-35	Newell Street Area II	Weekly Monitoring	Monthly Monitoring	
NS-36	Newell Street Area II	Weekly Monitoring	Monthly Monitoring	Outside known NAPL extent.
NS-37	Newell Street Area II	Weekly Monitoring	Monthly Monitoring	Outside known NAPL extent.
31	East Street Area 1 - South	Semi-Annual Monitoring	Retain/Replace	Well abandoned during Merrill Road reconstruction. Replace with nearby well 31R after construction is complete.
32	East Street Area 1 - South	Semi-Annual Monitoring	Remove from monitoring program/Do not replace	Well abandoned during Merrill Road reconstruction. Are to be covered with nearby replacement well 31R.
33	East Street Area 1 - South	Semi-Annual Monitoring	Retain	
34	East Street Area 1 - South	Monthly Monitoring / Semi-Annual Monitoring	Retain/Assess	Automated pumping assessment underway.
35	East Street Area 1 - South	Semi-Annual Monitoring	Retain	
45	East Street Area 1 - South	Semi-Annual Monitoring	Retain	
46	East Street Area 1 - South	Semi-Annual Monitoring	Retain	
47	East Street Area 1 - South	Semi-Annual Monitoring	Retain	
48	East Street Area 1 - South	Semi-Annual Monitoring	Remove from monitoring program	Nearby well ES1-13 will be monitored.
49	East Street Area 1 - South	Semi-Annual Monitoring	Retain	
53	East Street Area 1 - South	Semi-Annual Monitoring	Remove from monitoring program	Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area.

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

PROPOSED NAPL MONITORING PROGRAM MODIFICATIONS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS	PROPOSED MONITORING PROGRAM	RATIONALE
56	East Street Area 1 - South	Semi-Annual Monitoring	Remove from monitoring program	Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area.
57	East Street Area 1 - South	Semi-Annual Monitoring	Remove from monitoring program	Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area.
72	East Street Area 1 - South	Monthly Monitoring / Semi-Annual Monitoring	Retain/Assess	Automated pumping assessment underway.
74	East Street Area 1 - South	Semi-Annual Monitoring	Remove from monitoring program	Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area.
75	East Street Area 1 - South	Semi-Annual Monitoring	Retain	
76	East Street Area 1 - South	Semi-Annual Monitoring	Retain	
77	East Street Area 1 - South	Semi-Annual Monitoring	Retain	
78	East Street Area 1 - South	Semi-Annual Monitoring	Retain	
79	East Street Area 1 - South	Semi-Annual Monitoring	Remove from monitoring program	Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area.
80	East Street Area 1 - South	Semi-Annual Monitoring	Remove from monitoring program	Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area.
81	East Street Area 1 - South	Semi-Annual Monitoring	Retain	
89	East Street Area 1 - South	Semi-Annual Monitoring	Retain	
92	East Street Area 1 - South	None	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
97	East Street Area 1 - South	Semi-Annual Monitoring	Retain	
100	East Street Area 1 - South	Semi-Annual Monitoring	Retain	
125	East Street Area 1 - South	Semi-Annual Monitoring	Remove from monitoring program	Well located outside known NAPL extent. Upgradient monitoring provided at well ES1-13.
138	East Street Area 1 - South	Semi-Annual Monitoring	Remove from monitoring program	Well located outside known NAPL extent. Well screen is below water table.
139	East Street Area 1 - South	None	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

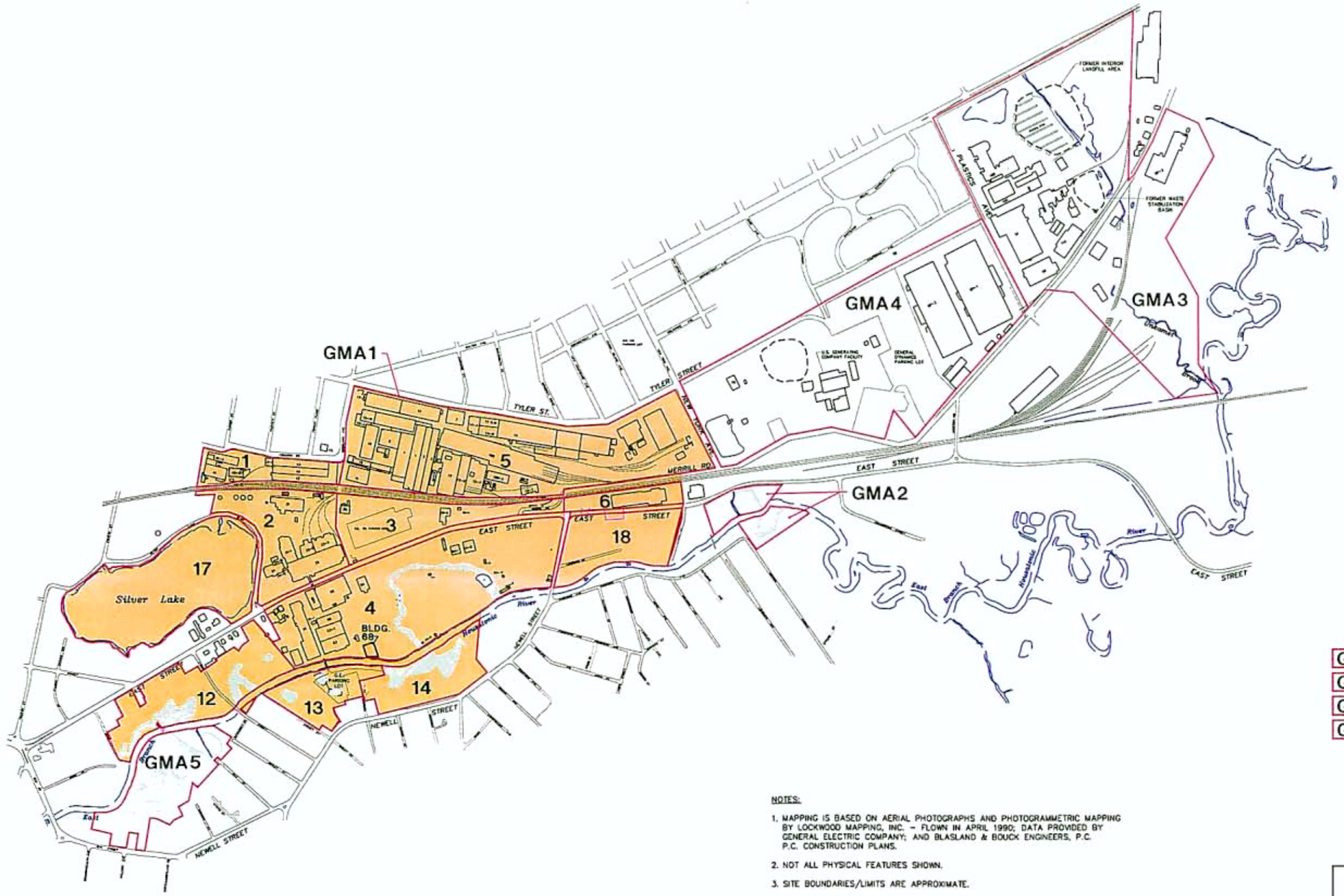
PROPOSED NAPL MONITORING PROGRAM MODIFICATIONS

WELL ID	REMOVAL ACTION AREA	CURRENT MONITORING PROGRAMS	PROPOSED MONITORING PROGRAM	RATIONALE
ES1-12	East Street Area 1 - South	Semi-Annual Monitoring	Remove from monitoring program	Nearby well 75 will be monitored.
ES1-13	East Street Area 1 - South	Semi-Annual Monitoring	Retain	
ES1-23	East Street Area 1 - South	Semi-Annual Monitoring	Quarterly Monitoring / Semi-Annual Sampling	Proposed as part of Baseline Monitoring Program.
ES1-24	East Street Area 1 - South	Semi-Annual Monitoring	Remove from monitoring program	Well located outside known NAPL extent. Other wells provide sufficient perimeter coverage in this area.

Notes:

1. This table presents proposed modifications to the ongoing NAPL monitoring programs shown in Table 1.
   Wells for which no modifications are proposed are designated by a proposal to "Retain".
2. Monitoring is defined as collection of groundwater elevation and NAPL thickness (if present) measurements.
   Manual NAPL removal is also conducted if certain well-specific minimum NAPL thicknesses are observed during a monitoring event.
3. Sampling is defined as collection of groundwater samples for laboratory analysis.
4. Several active groundwater/NAPL recovery wells are also inspected in conjunction with the weekly-monthly monitoring programs listed above.
   These periodic inspections will continue to be conducted.

Figures



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.

LEGEND

GMA 1 (PLANT SITE 1)

COMPRISED OF:

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

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

0 500' 1000'
APPROXIMATE SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

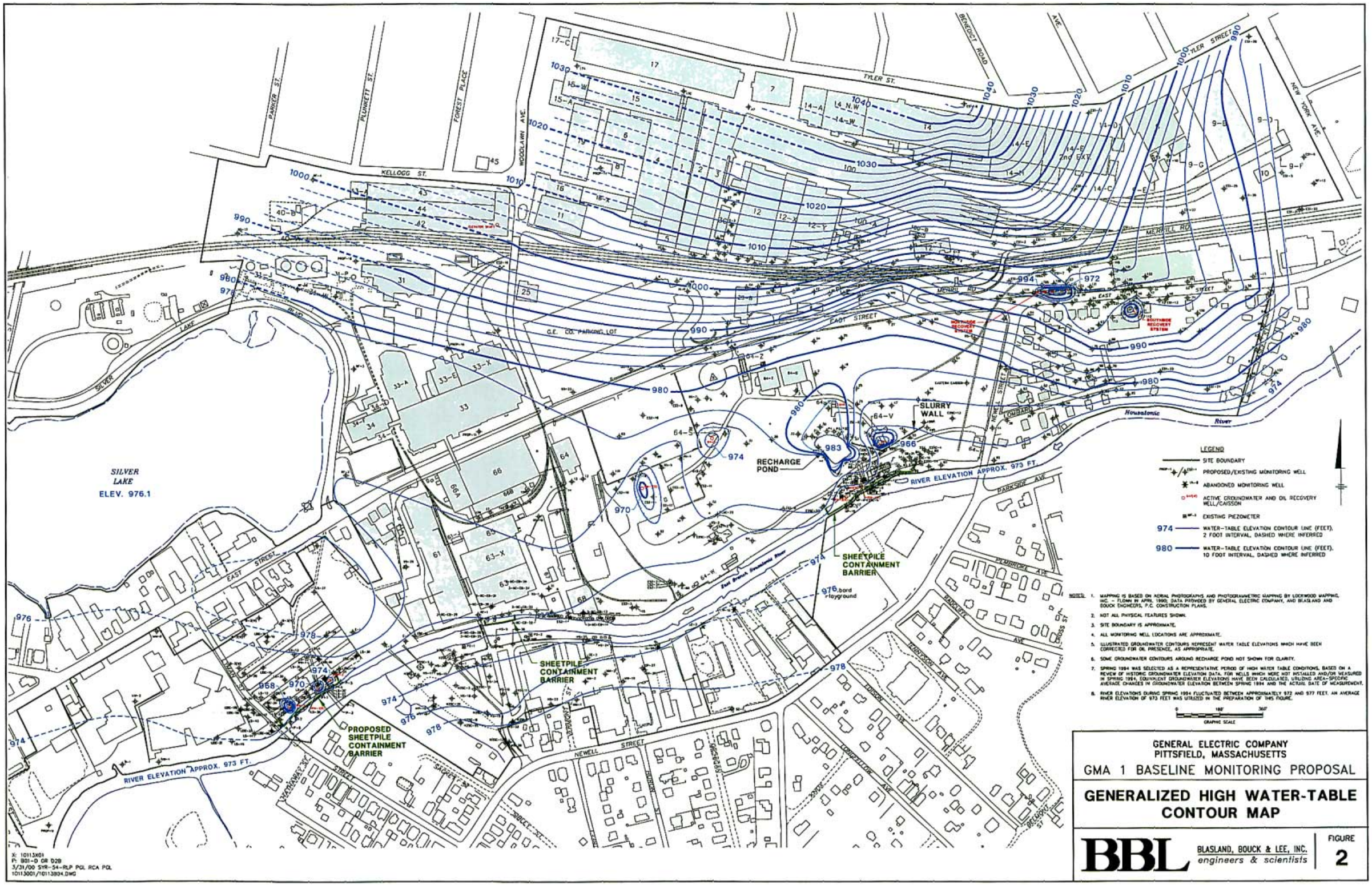
GMA 1 BASELINE MONITORING PROPOSAL

GROUNDWATER MANAGEMENT AREAS

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

FIGURE 1

L: ON=, OFF=REF
P: 901.PCP OR 952.PCP
3/31/00 SYR-54-GMS JER RCA PCL
1011D01/1011B11.DWG



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 AND BOUCK ENGINEERS, P.C. CONSTRUCTION PLANS.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARY IS APPROXIMATE.
4. ALL MONITORING WELL LOCATIONS ARE APPROXIMATE.
5. ILLUSTRATED GROUNDWATER CONTOURS REPRESENT WATER TABLE ELEVATIONS WHICH HAVE BEEN CORRECTED FOR OIL PRESENCE, AS APPROPRIATE.
6. SOME GROUNDWATER CONTOURS AROUND RECHARGE POND NOT SHOWN FOR CLARITY.
7. SPRING 1994 WAS SELECTED AS A REPRESENTATIVE PERIOD OF HIGH WATER TABLE CONDITIONS, BASED ON A REVIEW OF HISTORIC GROUNDWATER ELEVATION DATA. FOR WELLS WHICH WERE NOT INSTALLED AND/OR MEASURED IN SPRING 1994, EQUIVALENT GROUNDWATER ELEVATIONS HAVE BEEN CALCULATED, UTILIZING AREA-SPECIFIC AVERAGE CHANGES IN GROUNDWATER ELEVATION BETWEEN SPRING 1994 AND THE ACTUAL DATE OF MEASUREMENT.
8. RIVER ELEVATIONS DURING SPRING 1994 FLUCTUATED BETWEEN APPROXIMATELY 972 AND 977 FEET. AN AVERAGE RIVER ELEVATION OF 973 FEET WAS UTILIZED IN THE PREPARATION OF THIS FIGURE.

0 180' 360'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

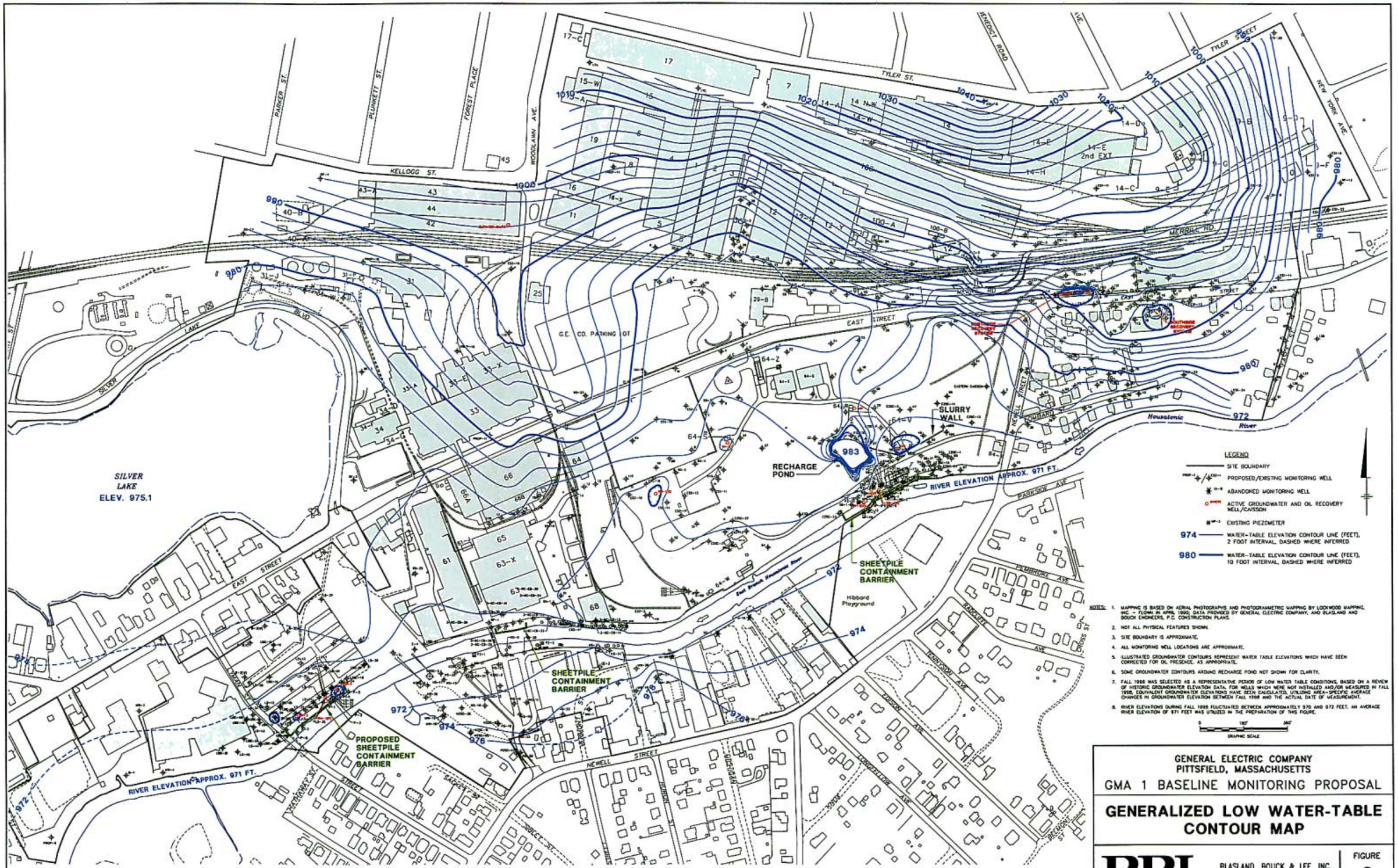
GMA 1 BASELINE MONITORING PROPOSAL

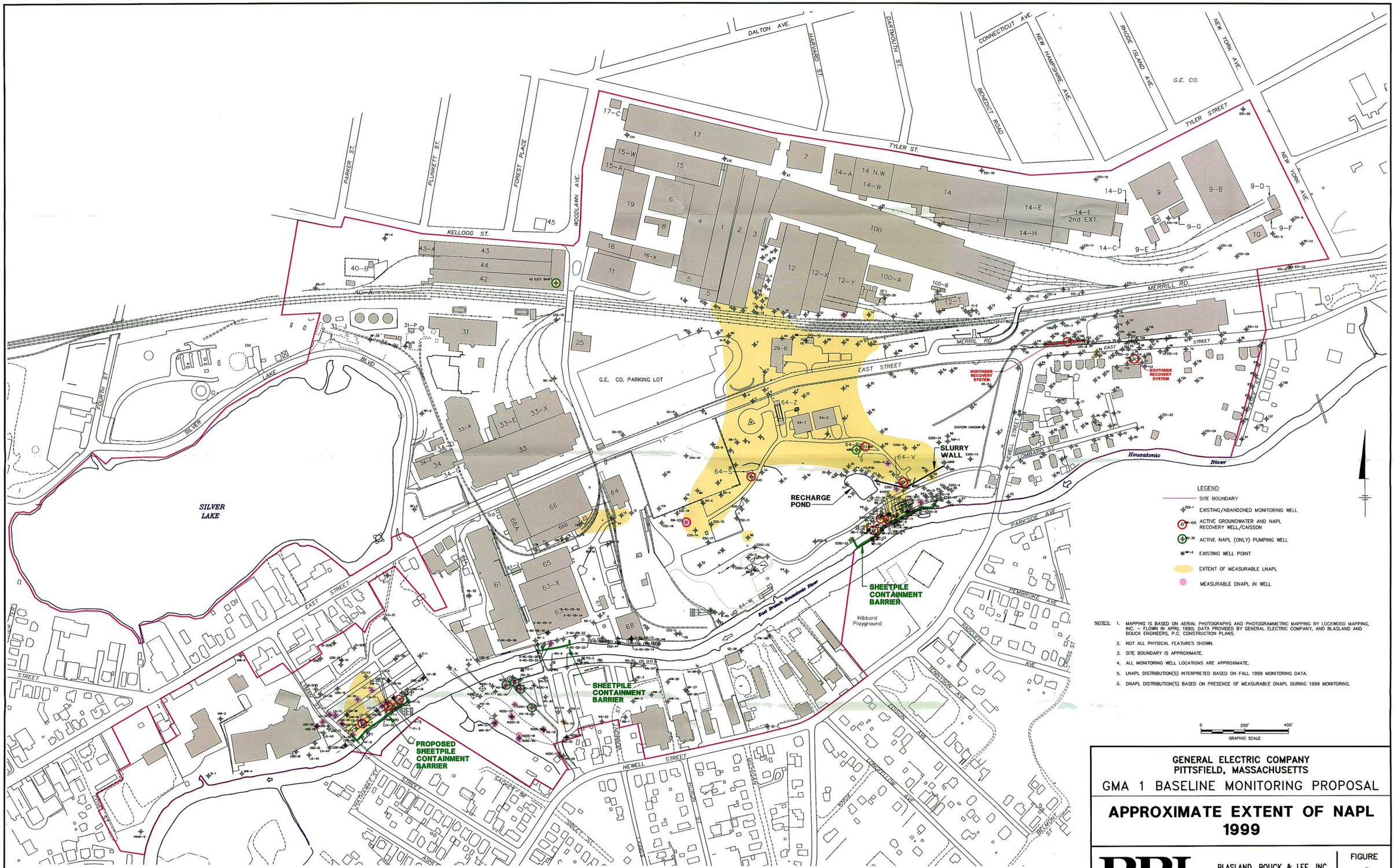
GENERALIZED HIGH WATER-TABLE CONTOUR MAP

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

FIGURE 2

X: 10113X01
P: B01-D OR D28
3/31/00 SYR-54-RLP PGL RCA PGL
10113001/10113B04.DWG


SILVER LAKE
ELEV. 975.1
RECHARGE POND
983
SLURRY WALL
SHEETPILE CONTAINMENT BARRIER
PROPOSED SHEETPILE CONTAINMENT BARRIER
SHEETPILE CONTAINMENT BARRIER
RIVER ELEVATION APPROX. 971 FT.
RIVER ELEVATION APPROX. 971 FT.
Housatonic River
Hibbard Playground
G.E. CO. PARKING LOT
KELLOGG ST.
TYLER ST.
EAST STREET
MERRILL RD.
NEWELL STREET
PARKER ST.
PLUNKETT ST.
FOREST PLACE
WOODLAWN AVE.
BENEDICT ROAD
NEW YORK AVE.
PARKSIDE AVE.
PEMBROKE AVE.
HANCOCK AVE.
EDISON AVE.
JEFFERSON AVE.
BERKSHIRE ST.
SILVER LAKE BLVD
LEGEND
SITE BOUNDARY
PROPOSED/EXISTING MONITORING WELL
ABANDONED MONITORING WELL
ACTIVE GROUNDWATER AND OIL RECOVERY WELL/CAISSON
EXISTING PIEZOMETER
974 WATER-TABLE ELEVATION CONTOUR LINE (FEET), 2 FOOT INTERVAL, DASHED WHERE INFERRED
980 WATER-TABLE ELEVATION CONTOUR LINE (FEET), 10 FOOT INTERVAL, DASHED WHERE INFERRED
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 AND BOUCK ENGINEERS, P.C. CONSTRUCTION PLANS.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARY IS APPROXIMATE.
4. ALL MONITORING WELL LOCATIONS ARE APPROXIMATE.
5. ILLUSTRATED GROUNDWATER CONTOURS REPRESENT WATER TABLE ELEVATIONS WHICH HAVE BEEN CORRECTED FOR OIL PRESENCE, AS APPROPRIATE.
6. SOME GROUNDWATER CONTOURS AROUND RECHARGE POND NOT SHOWN FOR CLARITY.
7. FALL 1998 WAS SELECTED AS A REPRESENTATIVE PERIOD OF LOW WATER TABLE CONDITIONS, BASED ON A REVIEW OF HISTORIC GROUNDWATER ELEVATION DATA. FOR WELLS WHICH WERE NOT INSTALLED AND/OR MEASURED IN FALL 1998, EQUIVALENT GROUNDWATER ELEVATIONS HAVE BEEN CALCULATED, UTILIZING AREA-SPECIFIC AVERAGE CHANGES IN GROUNDWATER ELEVATION BETWEEN FALL 1998 AND THE ACTUAL DATE OF MEASUREMENT.
8. RIVER ELEVATIONS DURING FALL 1998 FLUCTUATED BETWEEN APPROXIMATELY 970 AND 972 FEET. AN AVERAGE RIVER ELEVATION OF 971 FEET WAS UTILIZED IN THE PREPARATION OF THIS FIGURE.
0 180' 360'
GRAPHIC SCALE
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 1 BASELINE MONITORING PROPOSAL
GENERALIZED LOW WATER-TABLE CONTOUR MAP
BBL BLASLAND, BOUCK & LEE, INC. engineers & scientists
FIGURE 3
X: 10113X01
P: 801-D
3/31/00 SYR-54-RLP PGL RCA PGL
10113001/10113B05.DWG



X: 10113X01
P: B01–D
4/3/00 SYR–54–RLP RCB PGL RCA PGL
10113001/10113B10.DWG

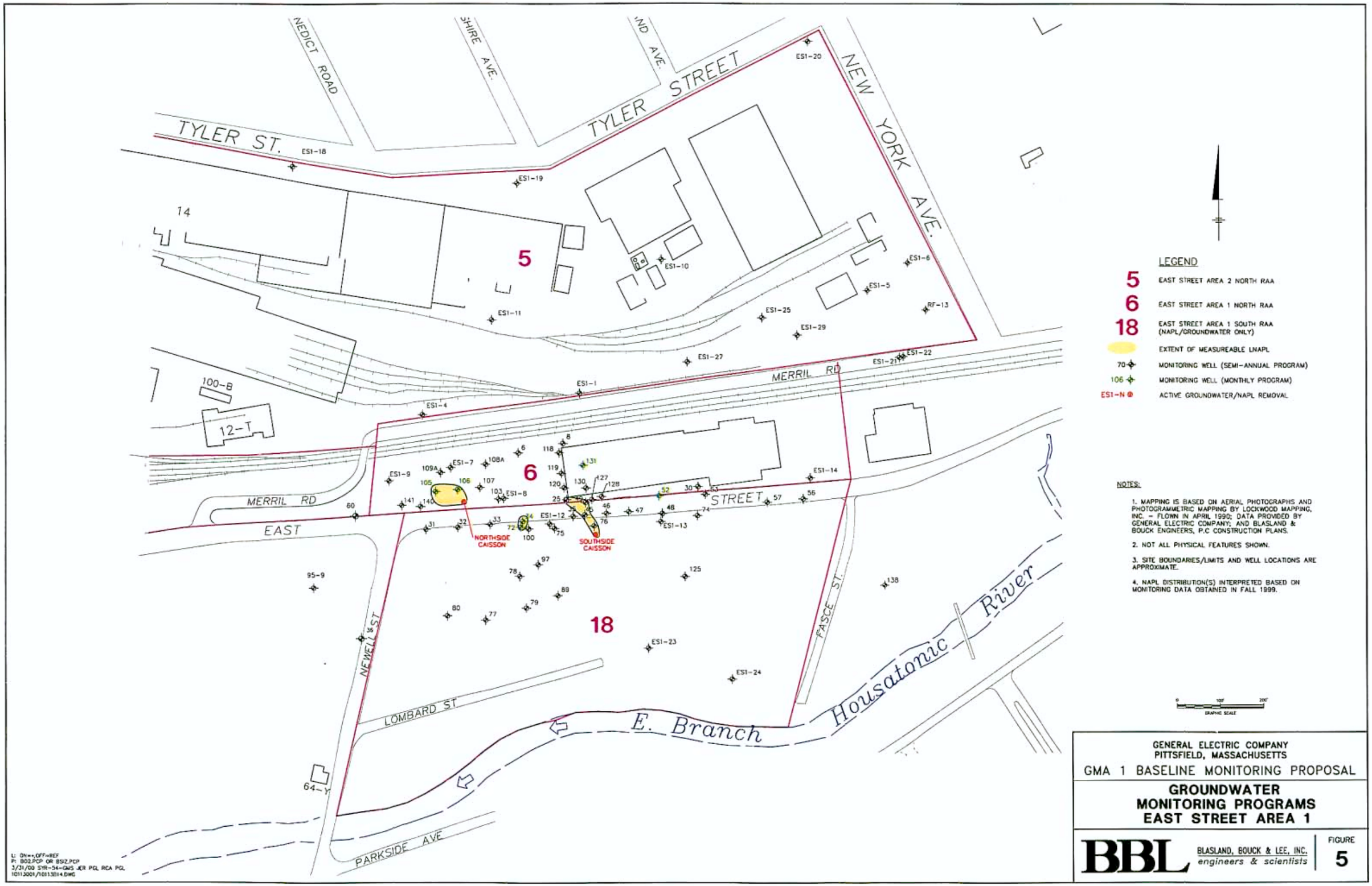
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

GMA 1 BASELINE MONITORING PROPOSAL

APPROXIMATE EXTENT OF NAPL 1999

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
4



LEGEND

5	EAST STREET AREA 2 NORTH RAA
6	EAST STREET AREA 1 NORTH RAA
18	EAST STREET AREA 1 SOUTH RAA (NAPL/GROUNDWATER ONLY)
	EXTENT OF MEASUREABLE LNAPL
70	MONITORING WELL (SEMI-ANNUAL PROGRAM)
106	MONITORING WELL (MONTHLY PROGRAM)
ES1-N	ACTIVE GROUNDWATER/NAPL REMOVAL

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 CONSTRUCTION PLANS.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARIES/LIMITS AND WELL LOCATIONS ARE APPROXIMATE.
4. NAPL DISTRIBUTION(S) INTERPRETED BASED ON MONITORING DATA OBTAINED IN FALL 1999.

0 100' 200'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

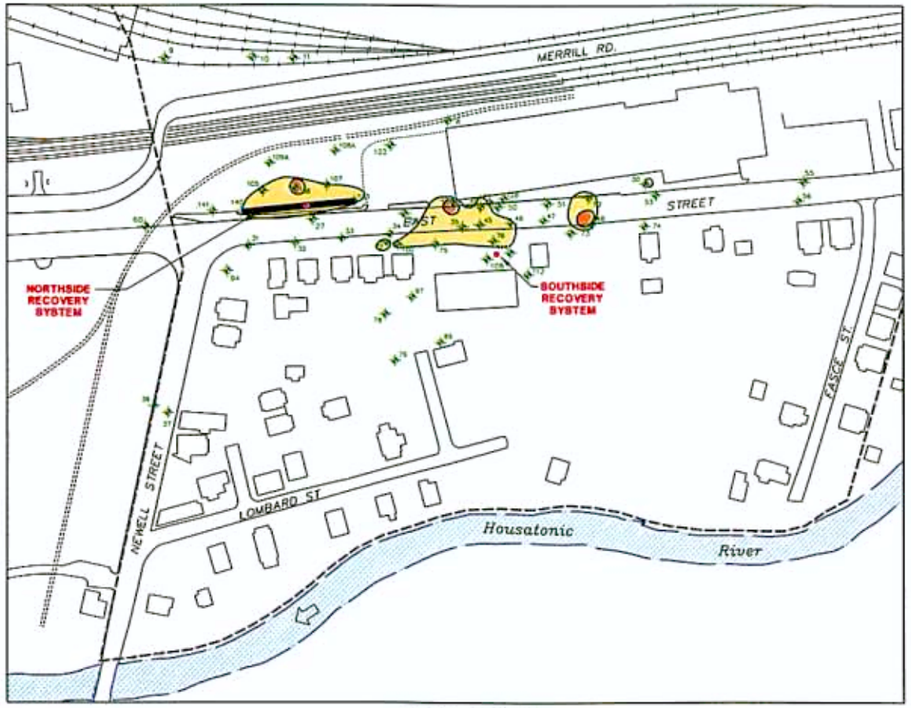
GMA 1 BASELINE MONITORING PROPOSAL

GROUNDWATER MONITORING PROGRAMS EAST STREET AREA 1

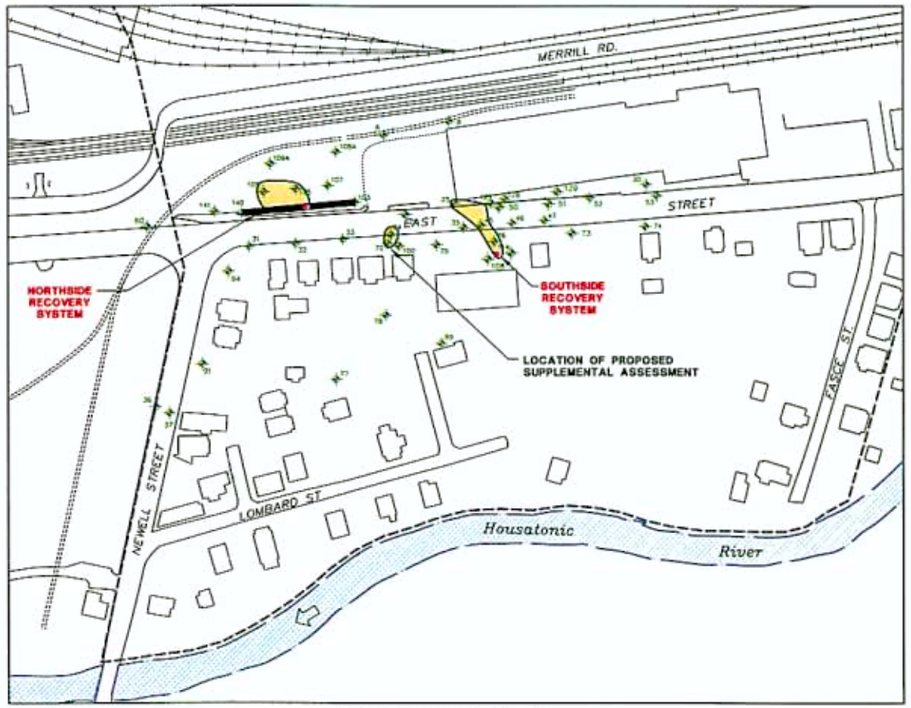
BBL BLASLAND, BOUCK & LEE, INC. engineers & scientists

FIGURE 5

L: ON=*;OFF=REF
P: BG2.PCP OR BSZ.PCP
3/31/00 SYR-54-GMS JER PGL RCA PGL
10113001/10113014.DWG



MAY 1983



OCTOBER 1999

LEGEND:

- APPROXIMATE SITE BOUNDARY
- MONITORING WELL LOCATION
- OIL RECOVERY CAISSON
- 0.01 – 0.8' OIL THICKNESS
- > 0.8' OIL THICKNESS

NOTES:

1. MAPPING IS BASED ON AERIAL PHOTOGRAPHS AND PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC. – FLOWN IN APRIL 1990; AND DATA PROVIDED BY GENERAL ELECTRIC COMPANY.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. WELL LOCATIONS ARE APPROXIMATE.
4. ILLUSTRATION OF THE EXTENT OF OIL PRESENT BETWEEN MONITORING POINTS IS APPROXIMATE.

0 120' 240'
APPROXIMATE GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

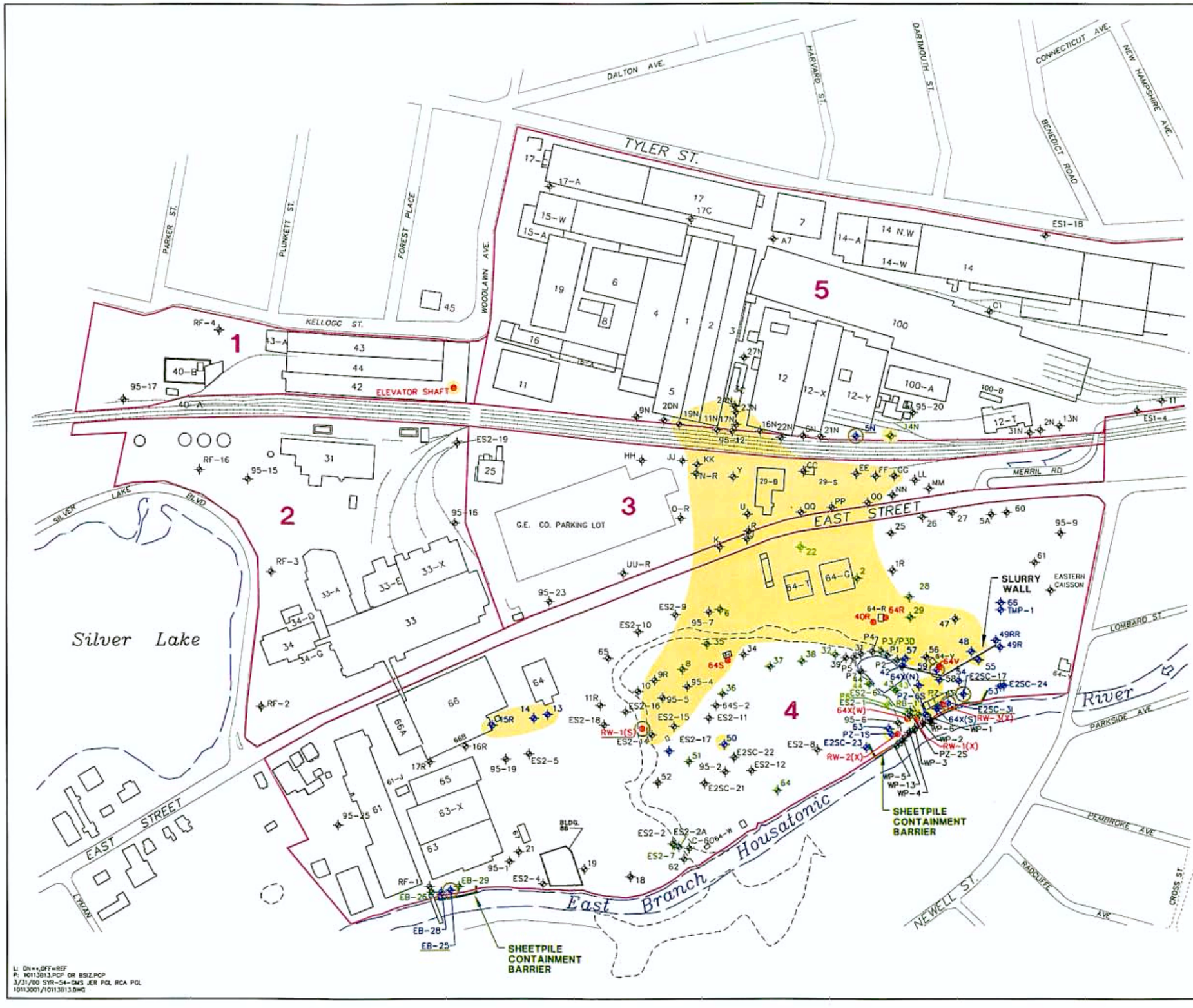
GMA 1 BASELINE MONITORING PROPOSAL

HISTORICAL LNAPL DISTRIBUTION EAST STREET AREA 1

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

FIGURE 6

X 10113X01
L: ON=*,OFF=*REF
P: STD-PCP/DL
4/2/00 SYR-54-YCC PGL
10113001/LNAPL/10113G01.DWG



LEGEND

1 40s COMPLEX RAA
2 30s COMPLEX RAA
3 20s COMPLEX RAA
4 EAST STREET AREA 2 SOUTH RAA
5 EAST STREET AREA 2 NORTH RAA
70 SEMI ANNUAL MONITORING PROGRAMS
RW-1R ACTIVE RECOVERY WELL
28 MEASURABLE DNAPL IN WELL
EXTENT OF MEASURABLE LNAPL
APPROXIMATE EXTENT OF FORMER OXBOW AREA
EB-28 WEEKLY MONITORING/REMOVAL
37 MONTHLY MONITORING/REMOVAL
aa SEMI-ANNUAL WATER QUALITY SAMPLING

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 CONSTRUCTION PLANS.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARIES/LIMITS AND WELL LOCATIONS ARE APPROXIMATE.
4. NAPL DISTRIBUTION(S) INTERPRETED BASED ON MONITORING DATA OBTAINED IN FALL 1999.

0 160' 320'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

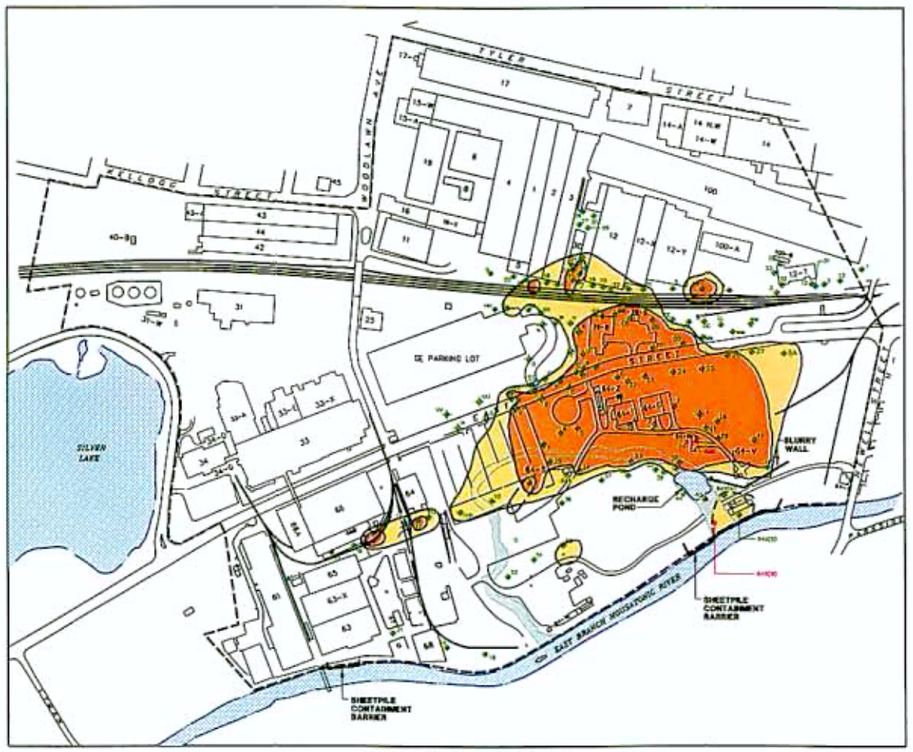
GMA 1 BASELINE MONITORING PROPOSAL

GROUNDWATER MONITORING PROGRAMS EAST STREET AREA 2 - NORTH & SOUTH, & 20s, 30s, & 40s COMPLEXES

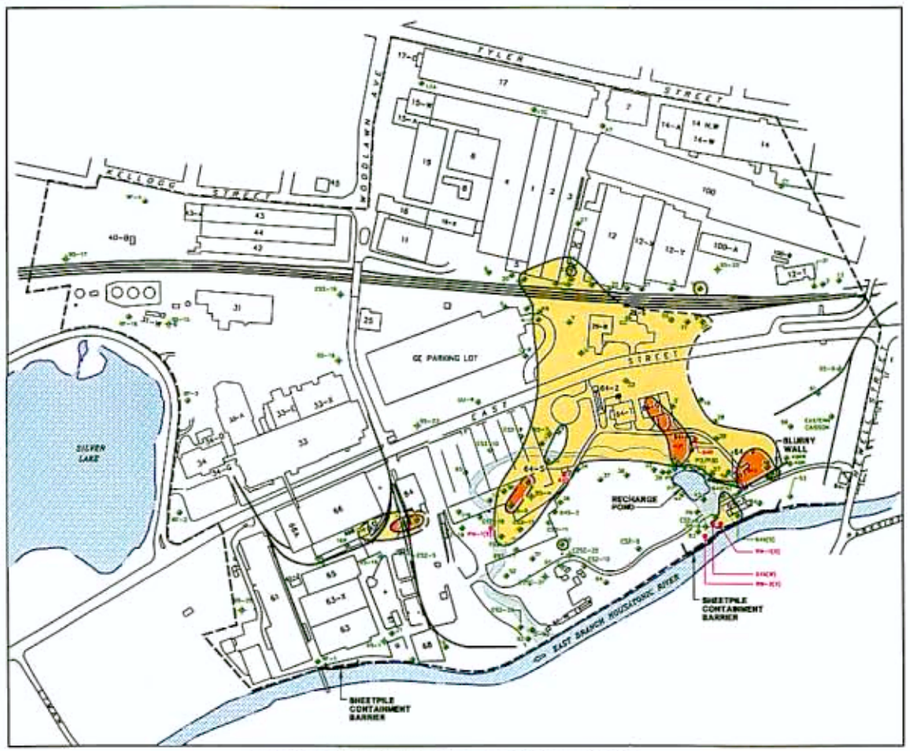
BBL BLASLAND, BOUCK & LEE, INC. engineers & scientists

FIGURE 7

L: ON=*,OFF=REF
P: 10113813.PCP OR BSIZ.PCP
J/31/00 SYR-54-GMS JER PGL RCA PGL
10113001/10113813.DWG



OCTOBER 1986



SEPTEMBER/OCTOBER 1999

LEGEND:

- APPROXIMATE SITE BOUNDARY
- APPROXIMATE DELINEATION OF FORMER RIVER CHANNEL
- MONITORING WELL
- OIL RECOVERY CAISSON/PUMPING WELL
- 0.01 – 0.8' OIL THICKNESS
- > 0.8' OIL THICKNESS

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 AND BOUCK ENGINEERS, P.C. CONSTRUCTION PLANS.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARY IS APPROXIMATE.
4. ALL MONITORING WELL LOCATIONS ARE APPROXIMATE.
5. ALL MONITORING WELLS AND CAISSONS INCLUDED IN A MONITORING EVENT ARE INDICATED IN GREEN.
6. ILLUSTRATION OF THE EXTENT OF OIL PRESENT BETWEEN MONITORING POINTS IS APPROXIMATE.
7. APPARENT OIL THICKNESS CONTOURS ARE DASHED WHERE INFERRED.
8. OIL THICKNESS NEAR THE RIVERBANK IN 1986 WAS NOT MEASURED , BUT THE PRESENCE OF OF OIL WAS NOTED IN THIS AREA.

0 300' 600'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

GMA 1 BASELINE MONITORING PROPOSAL

HISTORICAL LNAPL DISTRIBUTION EAST STREET AREA 2 - NORTH & SOUTH, AND 20's COMPLEX

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

FIGURE 8

X 1011.3X02
L: ON=*,OFF=*REF*
P: STD-PCP/DL
3/31/00 SYR-54-YCC, PGL RCA PGL
1011.3001/LNAPL/1011.3X02.DWG

Silver Lake

EAST STREET

LYMAN

E. Branch

Housatonic River

HATHAWAY ST.

ASHLEY ST

STREET

SACKET ST

NEWELL STREET

SIBLEY ST

VERMONT ST

66A

66B

61-J

61

65

63-X

63

67

BLDG. 68

G.E. PARKING LOT

12

13

E-7 E-1 E-3 E-4

LS-37 LS-29 LS-10 LS-13 LS-36 LS-28 LS-30 LS-31 LS-24 LS-20 LS-25 LS-41 LS-21 LS-11 LS-35 LS-12 LS-34 LS-2 LS-32 LS-33 LS-43 LS-38 LS-44 LS-45

LSSC-18 LSSC-06 LSSC-7 LSSC-34I LSSC-16I LSSC-34S LSSC-33 LSSC-32 LSSC-8S

RW-2 RW-3 RW-1(R) P-1 P-2 P-3 P-4 P-5 P-6 P-7

N2SC-7 N2SC-2 N2SC-11 N2SC-3S N2SC-3I N2SC-8 N2SC-9I N2SC-9S N2SC-12

NS-9 NS-36 NS-37 NS-15 NS-31 NS-21 NS-30 NS-1 NS-32 NS-17 NS-34 NS-35 NS-16 NS-11 NS-18 NS-10 NS-19 NS-23 NS-33 NS-20

MW-1S MW-1D

PROPOSED SHEETPILE CONTAINMENT BARRIER

LEGEND

12 LYMAN STREET AREA RAA (INCLUDING FORMER OXBOWS B, D, AND E)

13 NEWELL STREET AREA II RAA

LS-12 MEASURABLE DNAPL IN WELL

EXTENT OF MEASURABLE LNAPL

APPROXIMATE EXTENT OF FORMER OXBOW AREA

LS-45 WEEKLY MONITORING

LS-24 MONTHLY MONITORING

LS-36 QUARTERLY MONITORING

NS-30 ACTIVE GROUNDWATER/NAPL REMOVAL

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 CONSTRUCTION PLANS.

2. NOT ALL PHYSICAL FEATURES SHOWN.

3. SITE BOUNDARIES/LIMITS AND WELL LOCATIONS ARE APPROXIMATE.

4. ADDITIONAL NAPL RECOVERY SYSTEMS ARE PROPOSED IN WELLS N2SC-2 AND N2SC-3I.

5. ALL MONITORING WELL LOCATIONS ARE APPROXIMATE.

0 80' 160'
GRAPHIC SCALE

L: ON=*;OFF=REF
P:\1011\3813.PCP OR BSZ.PCP
4/3/00 STR-54-GMS PCL RCA PCL
1011\3001/1011\3812.DWG

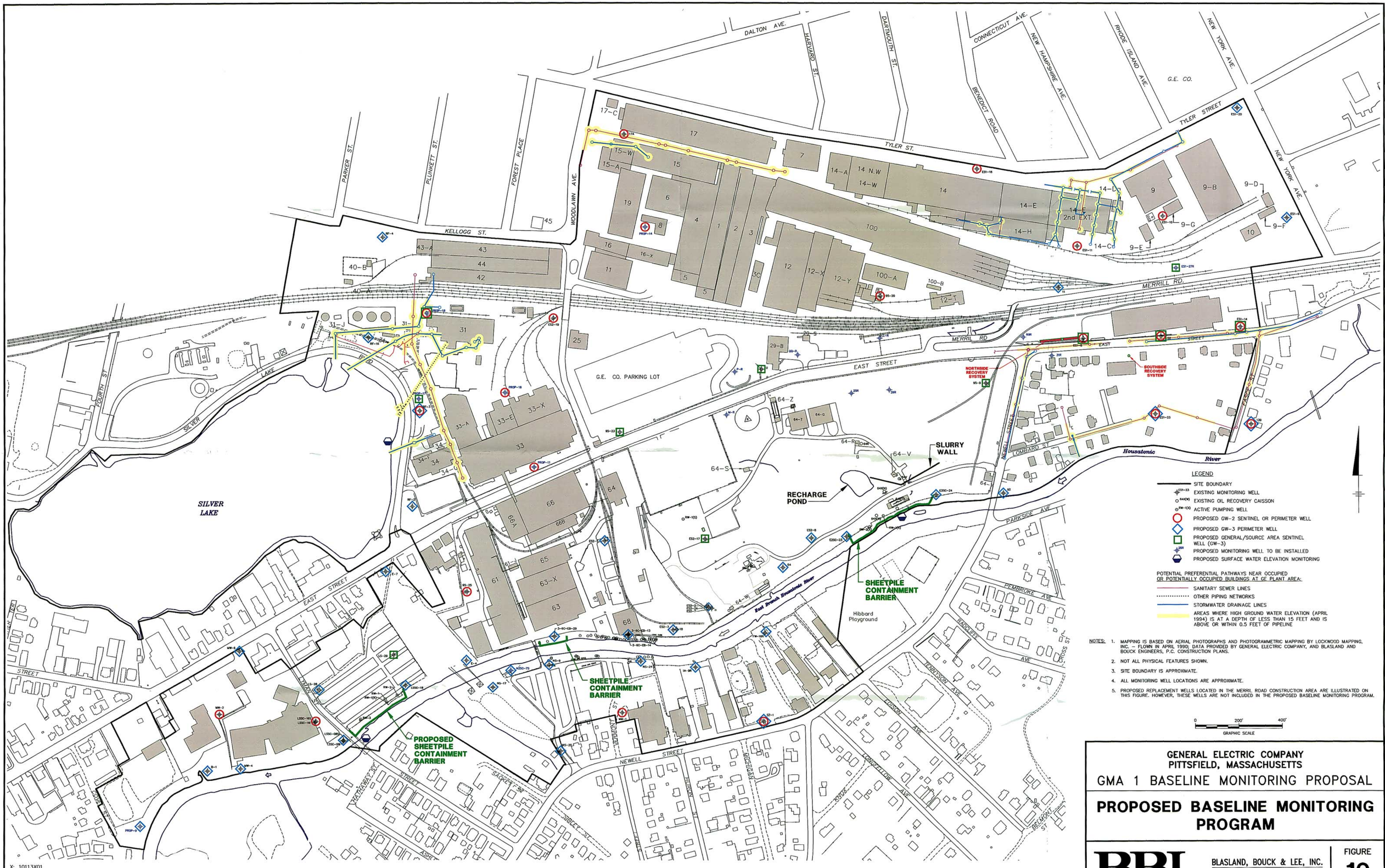
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

GMA 1 BASELINE MONITORING PROPOSAL

EXISTING GROUNDWATER MONITORING PROGRAMS
LYMAN STREET AREA
AND NEWELL STREET AREA II

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

FIGURE 9



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 AND BOUCK ENGINEERS, P.C. CONSTRUCTION PLANS.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARY IS APPROXIMATE.
4. ALL MONITORING WELL LOCATIONS ARE APPROXIMATE.
5. PROPOSED REPLACEMENT WELLS LOCATED IN THE MERRIL ROAD CONSTRUCTION AREA ARE ILLUSTRATED ON THIS FIGURE. HOWEVER, THESE WELLS ARE NOT INCLUDED IN THE PROPOSED BASELINE MONITORING PROGRAM.

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

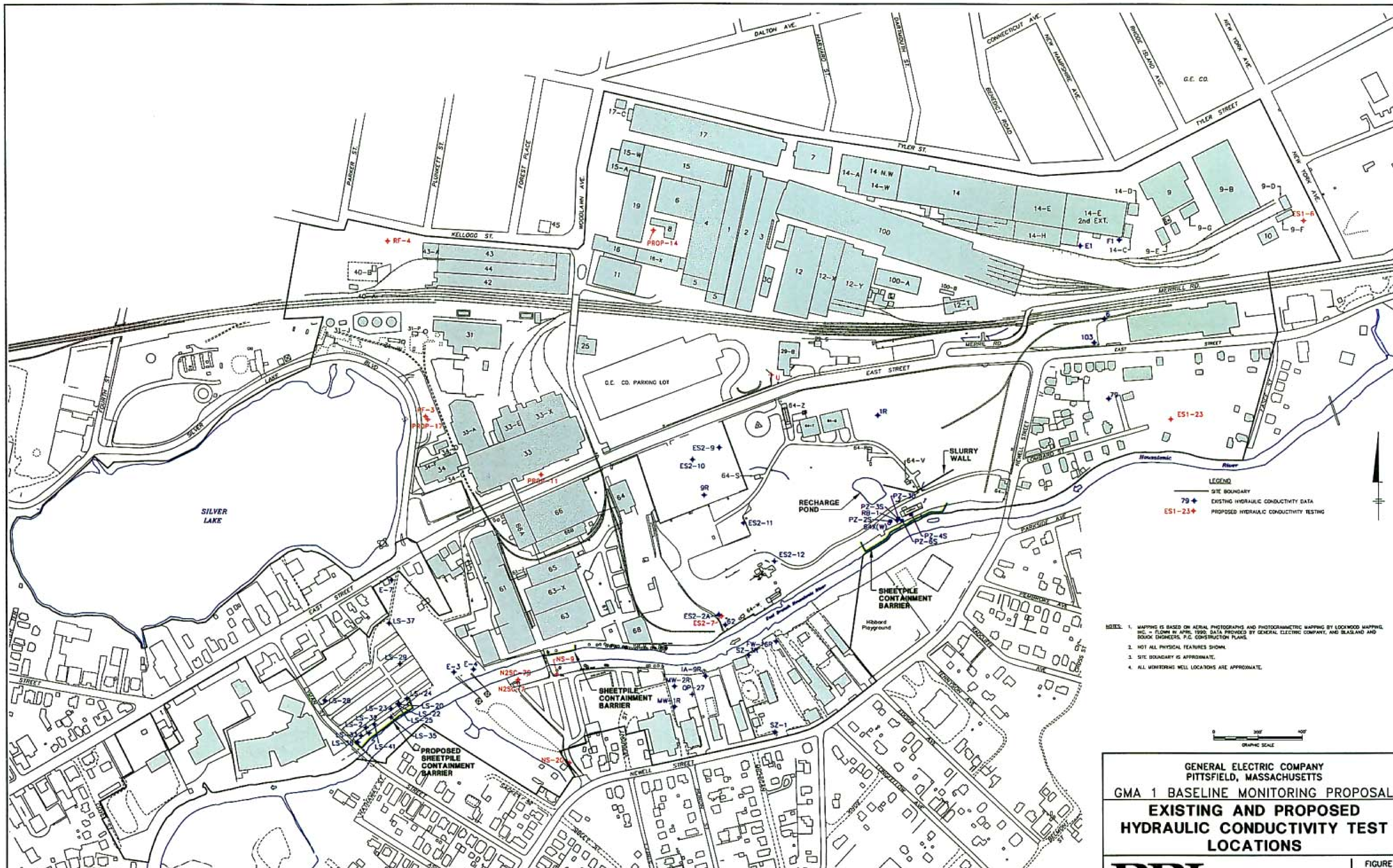
GMA 1 BASELINE MONITORING PROPOSAL

PROPOSED BASELINE MONITORING PROGRAM

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

FIGURE 10

X: 10113X01
P: B01-D OR D2B
4/3/00 SYR-54-RLP PGL RCA PGL
10113001/10113B16.DWG


DALTON AVE.
HARVARD ST.
DARTMOUTH ST.
CONNECTICUT AVE.
NEW HAMPSHIRE AVE.
BENEDICT ROAD
RHODE ISLAND AVE.
NEW YORK AVE.
G.E. CO.
TYLER STREET
TYLER ST.
PARKER ST.
PLUNKETT ST.
FOREST PLACE
WOODLAWN AVE.
KELLOGG ST.
MERRILL RD.
EAST STREET
G.E. CO. PARKING LOT
SILVER LAKE
SILVER LAKE BLVD.
FOURTH ST.
NEWELL STREET
LYMAN ST.
PARKSIDE AVE.
Housatonic River
RECHARGE POND
SLURRY WALL
SHEETPILE CONTAINMENT BARRIER
PROPOSED SHEETPILE CONTAINMENT BARRIER
Hibbard Playground
RF-4
RF-3
PROP-17
PROP-14
PROP-11
ES1-6
ES1-23
ES2-9
ES2-10
ES2-11
ES2-12
ES2-2A
ES2-7
9R
1R
79
103
E1
F1
PZ-3S
RB-1
PZ-2S
64X(W)
PZ-4S
PZ-6S
E-7
E-3
E-4
LS-37
LS-29
LS-28
LS-24
LS-20
LS-22
LS-23
LS-25
LS-35
LS-41
LS-30
NS-9
N2SC-7S
N2SC-7
NS-20
IA-9R
MW-2R
OP-27
MW-1R
FW-16R
SZ-1
17
17-C
15-W
15-A
15
19
6
8
4
1
2
3
100
7
14-A
14 N.W
14-W
14
14-E
14-E 2nd EXT.
14-H
14-D
14-C
9
9-B
9-D
9-G
9-E
9-F
10
16
11
12
12-X
12-Y
100-A
100-B
12-1
5
3C
43-A
43
44
42
40-B
40-A
45
31
31-P
25
29-B
33-A
33-E
33-X
33
34
66
66A
64
61
65
63-X
63
68
64-Z
64-V
64-S
LEGEND
SITE BOUNDARY
79 EXISTING HYDRAULIC CONDUCTIVITY DATA
ES1-23 PROPOSED HYDRAULIC CONDUCTIVITY TESTING
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 AND BOUCK ENGINEERS, P.C. CONSTRUCTION PLANS.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARY IS APPROXIMATE.
4. ALL MONITORING WELL LOCATIONS ARE APPROXIMATE.
0
200'
400'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

GMA 1 BASELINE MONITORING PROPOSAL

EXISTING AND PROPOSED HYDRAULIC CONDUCTIVITY TEST LOCATIONS

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

FIGURE **11**

P: B01-D OR D2B
4/2/00 SYR-54-RLP PGL RCA PGL
10113001/10113817.DWG