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*Transmitted via Overnight Courier*

June 20, 2008

Mr. Richard Hull  
U.S. Environmental Protection Agency  
EPA New England  
One Congress Street, Suite 1100  
Boston, Massachusetts 02114-2023

**Re: GE-Pittsfield/Housatonic River Site  
Hill 78 Area-Remainder (GEC160)  
Final RD/RA Work Plan**

Dear Mr. Hull:

Enclosed for your review is GE's *Final Removal Design/Removal Action Work Plan for Hill 78 Area-Remainder*.

Please call me if you have any questions regarding this plan or other activities at the Hill 78 Area-Remainder Removal Action Area.

Sincerely,

Richard W. Gates  
Remediation Project Manager

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**General Electric Company  
Pittsfield, Massachusetts**

**Final Removal Design/ Removal Action  
Work Plan for Hill 78 Area-Remainder**

June 2008

**ARCADIS**

**Final RD/RA Work Plan**

Hill 78 Area-Remainder

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## 1. Introduction

### 1.1 General

On October 27, 2000, a Consent Decree (CD) executed in 1999 by the General Electric Company (GE), the United States Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MDEP), and several other government agencies was entered by the United States District Court for the District of Massachusetts. The CD requires (among other things) the performance of Removal Actions to address polychlorinated biphenyls (PCBs) and other hazardous constituents present in soil, sediment, and groundwater in several Removal Action Areas (RAAs) located in or near Pittsfield, Massachusetts. These RAAs are part of the GE-Pittsfield/Housatonic River Site. For each Removal Action, the CD and accompanying *Statement of Work for Removal Actions Outside the River* (SOW) (Appendix E to the CD) establish Performance Standards that must be achieved, as well as specific work plans and other documents that must be prepared to support the response actions for each RAA. For most of the Removal Actions, these work plans/documents include the following: Pre-Design Investigation Work Plan, Pre-Design Investigation Report, Conceptual Removal Design/Removal Action (RD/RA) Work Plan, and Final RD/RA Work Plan.

For the Hill 78 Area-Remainder RAA, GE has previously submitted the following documents:

- *Pre-Design Investigation Work Plan for Hill 78 Area-Remainder* (PDI Work Plan) (February 2004);
- *Hill 78 Area-Remainder – Addendum to Pre-Design Investigation Work Plan* (PDI Work Plan Addendum) (August 2004);
- *Pre-Design Investigation Report for Hill 78 Area-Remainder* (PDI Report) (September 2005);
- *Hill 78 Area-Remainder – Supplemental Sampling Proposal* (May 2006 Supplemental Sampling Proposal) (May 2006);
- *Hill 78 Area-Remainder – Supplemental Data Letter* (Supplemental Data Letter) (September 2006);

- *Hill 78 Area-Remainder – Supplemental Sampling Proposal* (February 2007 Supplemental Sampling Proposal) (February 2007);
- *Hill 78 Area-Remainder – Second Supplemental Data Letter* (Second Supplemental Data Letter) (March 2007);
- *Hill 78 Area-Remainder – Proposed Additional Sampling Location* (Additional Sampling Proposal) (June 2007);
- *Hill 78 Area-Remainder – Third Supplemental Data Letter* (Third Supplemental Data Letter) (July 2007);
- *Hill 78 Area-Remainder – Results of Data Needs Assessment* (Data Needs Letter) (December 2007); and
- *Conceptual Removal Design/Removal Action Work Plan for Hill 78 Area-Remainder* (Conceptual Work Plan) (February 2008).

In addition to these documents, GE submitted several documents describing the recently performed storm and sanitary sewer relocation activities across a portion of Hill 78 Area-Remainder. Those documents include:

- *Hill 78 On-Plant Consolidation Area – Re-Routing of Sanitary and Storm Water Pipelines* (Re-Routing Proposal) (October 2006);
- *Hill 78 On-Plant Consolidation Area – Supplemental Sampling Plan for Re-Routing of Sanitary and Storm Sewer Pipelines* (Supplemental Sampling Plan) (February 2007);
- *Supplemental Sampling and Engineering Design Report for Re-Routing of Sanitary and Storm Sewer Pipelines* (SS/ED Report) (July 2007); and
- *Hill 78 On-Plant Consolidation Area – Addendum to Supplemental Sampling and Engineering Design Report for Re-Routing of Sanitary and Storm Sewer Pipelines* (SS/ED Addendum) (October 2007).

The above-referenced Conceptual Work Plan submitted to EPA in February 2008 presented: (1) evaluations of both the PCB and non-PCB constituents listed in Appendix IX of 40 CFR 264 (excluding pesticides and herbicides), plus benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (Appendix IX+3) data under existing conditions to assess the need for soil-related remediation activities; (2) where necessary, a conceptual proposal



for soil-related remediation activities; and (3) evaluations of PCBs in soil under post-remediation conditions (where relevant) to demonstrate that the proposed remediation activities will achieve the applicable Performance Standards under the CD and SOW. As indicated in the Conceptual Work Plan, applicable Appendix IX+13 Performance Standards are achieved under existing conditions. On April 23, 2008, EPA issued a letter to GE conditionally approving the Conceptual Work Plan and requiring submittal of the Final Work Plan within 60 days of the date of that letter (i.e., by June 23, 2008).

This *Final RD/RA Work Plan for Hill 78 Area-Remainder* (Final Work Plan) presents responses to certain conditions specified by EPA in its April 23, 2008 conditional approval letter related to the Conceptual Work Plan, a summary of the pre-design investigation activities performed at the Hill 78 Area-Remainder RAA, a summary of the PCB and Appendix IX+3 evaluation procedures and results, design information, an implementation plan, a discussion regarding Contractor selection, details regarding post-construction activities, and the anticipated schedule of construction activities. Additional details regarding the specific components of this Final Work Plan are provided in Section 1.3.

## 1.2 Description of the Hill 78 Area-Remainder RAA

Hill 78 Area-Remainder occupies an area of approximately 29.60 acres in the central to eastern portion of the GE Plant Area in Pittsfield (Figure 1-1). This area is generally bounded by Tyler Street Extension on the north, New York Avenue to the west, a parking lot for the adjacent General Dynamics facility to the east (which is part of the Unkamet Brook RAA), and Merrill Road to the south. In addition, a small area to the north of the Tyler Street Extension is also included in Hill 78 Area-Remainder. The Hill 78 and Building 71 Consolidation Areas (OPCAs) and related stormwater retention basins are not part of Hill 78 Area-Remainder (Figure 1-2).

Hill 78 Area-Remainder is located outside of the 100-year floodplain of the Housatonic River, Silver Lake, and Unkamet Brook. The area is comprised of the GE-owned tax parcels K11-7-2 and K11-7-201, and tax parcel (Parcel K11-7-1), located in the southwest portion of the RAA along Merrill Road, which had been owned by Pittsfield Generating Company, L.P. (PGC) (formerly known as Altresco Pittsfield, LP), which also leases the generating facility on GE-owned Parcel K11-7-201, but is now owned by GE, as title was transferred on or about March 21, 2008. The Tyler Street Extension is also owned by GE. As presented in the CD and SOW, and shown on Figure 1-2, all of Hill 78 Area-Remainder is considered a “commercial/industrial” area. With the exception of Building 78 (Building 78 is the hazardous waste storage facility within the GE plant) and the PGC generating facility, and paved roadways and parking lots associated with those facilities, the remaining areas of Hill 78 Area-Remainder are generally open.

As indicated in the Conceptual Work Plan, a portion of Hill 78 Area-Remainder (on the northeast corner of New York and Merrill Road) was previously used to backfill clean soils. Consistent with Condition No. 1 of EPA's April 23, 2008 conditional approval letter, GE will remove any of the material previously placed within this area only after an Environmental Restriction and Easement (ERE) is recorded for this parcel and only in compliance with the ERE. In addition, GE will no longer place any material generated from the site within the subject area without EPA approval.

As the areas of the OPCAs are carved out from the outer boundaries of Hill 78 Area-Remainder, the presence of the OPCAs affects the interior boundaries of this RAA. Upon completion, the final cover for the Hill 78 OPCA will encompass an area of approximately 6.0 acres of the northern, central section of the site along Tyler Street. The Building 71 OPCA lies directly east and adjacent to this area, and the final cover will occupy an area of approximately 4.4 acres. Consolidation activities and the final closure of the Building 71 OPCA were completed in October 2006, while the Hill 78 OPCA continues to be used by GE and EPA for the permanent consolidation of materials (soil, sediment, demolition debris, etc.) removed during response actions and building demolition activities conducted at the GE plant and several other areas around Pittsfield that are included within the GE-Pittsfield/Housatonic River Site. As noted above, these OPCAs are not included in Hill 78 Area-Remainder.

In addition, two other matters related to the OPCAs affect the overall footprint of the OPCAs, and, therefore, the areas carved out from Hill 78 Area-Remainder. First, as part of the overall stormwater management system for the OPCAs, two stormwater drainage basins were constructed adjacent to the OPCAs, as illustrated on Figure 1-2. As described in the Conceptual Work Plan, the boundary of the Hill 78 Area-Remainder RAA was modified in the vicinity of the OPCAs to reflect the fact that the two existing stormwater retention basins are considered part of the OPCAs and therefore are not part of Hill 78 Area-Remainder.

Second, in OPCA-related correspondence between 1999 and 2000, EPA and GE jointly developed and agreed to a scope of work for a geophysical survey related to the Hill 78 OPCA. In general, the geophysical survey focused on two areas of the Hill 78 OPCA: (1) portions of the outer perimeter associated with the anticipated final Hill 78 OPCA configuration, and (2) the area of existing monitoring well H78B-8R, where non-aqueous phase liquid (NAPL) had been observed. Depending on the results of the geophysical survey (i.e., if subsurface anomalies were observed), several potential follow-up actions were identified including additional geophysical surveys, performance of subsurface soil explorations and/or monitoring well installations, or extension of the final OPCA cover system over the area in question. GE initiated survey activities in November 2001, and a

supplemental geophysical survey was performed in April 2002. Based on the results of the surveys, GE elected, consistent with the options that had been previously documented, to expand the limits of the final Hill 78 OPCA cover system to include the areas where subsurface anomalies were identified. Specifically, GE proposed to extend the anticipated southwestern edge of the final Hill 78 OPCA in a southwesterly direction to address four of the five anomalies observed during the geophysical surveys (the fifth anomaly was located within an area already subject to the installation of a final OPCA cap). Based on the decision to extend the OPCA cover system, the areas beneath the extended cover are designated as part of the OPCAs; therefore, they are not part of Hill 78 Area-Remainder. In the PDI Work Plan, GE proposed that the extension of the OPCA cover system should constitute a final response to the physical anomalies and that no additional geophysical surveys or intrusive investigations be conducted in the areas subject to the extended cover. EPA approved that proposal as part of the PDI Work Plan.

As indicated in the Conceptual Work Plan, the Hill 78 Area-Remainder RAA consists of three separate averaging areas. Each of these areas is owned by GE and each is classified as a commercial/industrial area per the SOW and include the following:

- Parcel K11-7-2 (Identified in the SOW as Averaging Area 7 – Hill 78 Area-Remainder);
- Parcel K11-7-201 (Identified in the SOW as Averaging Area 8 – U.S. Generating Facility Property); and
- Parcel K11-7-1 (Not identified in the SOW; this property, formerly owned by PGC was proposed by GE in the Pre-Design Work Plan, and approved by EPA, to be treated as a separate averaging area.

Each of these averaging areas is further described below.

**Parcel K11-7-2 Averaging Area:**

The Parcel K11-7-2 Averaging Area is a largely unpaved area measuring approximately 16.16 acres, which is primarily located in the western portion of Hill 78 Area-Remainder (Figure 1-2). A narrow strip of this averaging area also extends along the northern and eastern edges of the OPCAs. The following structures are located within this industrial averaging area: Building 78, utilized by GE as a Resource Conservation Recovery Act (RCRA) permitted hazardous waste storage facility; Building 73, a former transformer test area; and Building 14E, which contains an electrical substation.

**Parcel K11-7-201 Averaging Area:**

The Parcel K11-7-201 Averaging Area is a largely unpaved area measuring approximately 12.90 acres. As mentioned above, GE has leased a portion of this averaging area (see Figure 1-2) to PGC for operation of a generating facility. This facility consists of four primary buildings: a gas turbine generator building, a steam turbine building, a cooling tower structure, and a fuel oil tank building. As indicated in the Conceptual Work Plan, GE evaluated both (1) the entire averaging area including the approximate 6.35-acre leased area shown on Figure 1-2 and (2) the leased area separately. Pursuant to the Seventh CD modification entered into as of May 2008, the leased portion of this averaging area will be subject to a new ground lease, but PGC (under new ownership) will remain the operator of this facility.

**Parcel K11-7-1 Averaging Area:**

The Parcel K11-7-1 Averaging Area was owned by PGC, the same company that leases the generating facility within this RAA on land owned by GE (i.e., the leased portion of Parcel K11-7-201). As noted above, however, in March 2008, title to this property was transferred to GE, and, therefore, the property is now GE-owned. This approximate 0.54 acre parcel is entirely unpaved.

**1.3 Contents of Final Work Plan**

Section 3.4 of the SOW contains specific requirements regarding the information required in Final Work Plans, including:

- Results of pre-design studies/investigations;
- An evaluation of the areas and depths subject to removal actions to meet the PCB-related Performance Standards set forth in the SOW;
- An evaluation of the need for additional removal actions to address non-PCB constituents and (if needed) the type of such removal actions;
- An evaluation of other issues that may affect the type and extent of removal actions (e.g., groundwater, NAPL);
- Summary of preliminary response action quantities, including soil removal, capping areas, etc.;

- Design assumptions and parameters;
- Identification of Applicable or Relevant and Appropriate Requirements (ARARs) in accordance with Attachment B of the SOW;
- Detailed design of the response actions;
- Description of other implementation details concerning performance of the removal actions;
- Summary of anticipated Post-Removal Site Control activities following completion of the Removal Action;
- Identification of the Removal Action team, including key personnel, roles and responsibilities, and lines of authority;
- Process for selection of Removal Action Contractor (if not already selected);
- Schedule for implementation of Removal Action;
- Construction Quality Assurance Plan (CQAP); and
- Project closeout requirements.

In addition, GE will provide other pertinent information regarding these remedial activities to EPA in a supplemental information package (SIP) as a follow up to this Final Work Plan, as further described in Section 10.

#### **1.4 Scope and Format of Final Work Plan**

To satisfy the requirements identified above, the remainder of this Final Work Plan is presented in nine sections. The title and a brief overview of each section are presented below:

**Section 2 – Responses to EPA’s Conditional Approval Letter**, addresses relevant conditions specified by EPA in its April 23, 2008 conditional approval letter.

**Section 3 – Summary of Pre-Design Activities and Available Soil Data**, describes the pre-design soil investigation activities conducted by GE within Hill 78 Area-Remainder, the results of which were used to determine the need and extent of remediation activities to address PCBs and Appendix IX+3 constituents in soil at the various averaging areas.

**Section 4 – Summary of PCB and Appendix IX+3 Evaluation Procedures**, provides an overview of the applicable PCB and Appendix IX+3 Performance Standards for the averaging areas located within Hill 78 Area-Remainder. This section also describes the applicable procedures used to evaluate PCBs and other Appendix IX+3 constituents in soil under existing and, where necessary, post-remediation conditions.

**Section 5 – Summary of PCB and Non-PCB Soil Evaluation Results**, presents an overall summary of the PCB and Appendix IX+3 evaluations for the averaging areas located within the Hill 78 Area-Remainder, as presented in the Conceptual Work Plan (unless modified herein), as well as the remediation activities proposed to achieve the Performance Standards (i.e., soil removal/replacement) for each area.

**Section 6 – Design Information**, describes additional design-related information associated with the remediation activities identified in Section 5. Such information includes technical plans, specifications, and drawings; information regarding performance of soil removal activities; identification of site-specific Applicable or Relevant and Appropriate Requirements (ARARs); and a description of the procedures to be implemented to ensure attainment of those ARARs.

**Section 7 – Contractor Selection**, discusses the process for selecting the Remediation Contractor.

**Section 8 – Implementation Plan**, discusses certain site-specific implementation components, including identification of the project participants, Remediation Contractor submittal requirements, project-specific site preparation and construction-related components, and the perimeter air monitoring proposed during the performance of the removal actions.

**Section 9 – Post-Construction Activities**, identifies the various activities to be performed following implementation of remedial actions, including project closeout activities (e.g., pre-certification inspection and preparation of a Final Completion Report) and Post-Removal Site Control activities.

**Section 10 – Schedule**, identifies the anticipated schedule for performance of the proposed remedial actions and subsequent reporting activities.

The discussions in the sections listed above are supported by various figures and attachments, as described in subsequent sections of this Final Work Plan.

Finally, it should be noted that this Final Work Plan evaluates the need for and scope of removal actions to achieve the soil-related Performance Standards set forth in the CD and SOW. Groundwater at Hill 78 Area-Remainder is being addressed separately as part of GE's groundwater-related activities for Groundwater Management Area (GMA) 4 pursuant to the CD and SOW. At the present time, these activities consist of the performance of an interim groundwater monitoring program at GMA 4 and monitoring in relation to operations at the Hill 78 Consolidation Area and the Building 71 Consolidation Area.

## 2. Responses to EPA's Conditional Approval Letter

As discussed in Section 1, EPA provided conditional approval of the Conceptual Work Plan in a letter to GE dated April 23, 2008. In that letter, EPA required GE to address certain conditions in this Final Work Plan. The remainder of this section and referenced attachments provide supplemental information to address EPA comments.

*EPA Comment 1: GE may remove any of the material previously placed in the southwest corner of the Removal Action Area ("RAA"), only after an Environmental Restriction and Easement ("ERE") is recorded for this RAA and only in compliance with such recorded ERE. GE shall no longer place any material generated from the site within the designated fill area without EPA approval.*

GE Response: As indicated herein, GE will not remove any of the material previously placed in the southwest corner of the RAA until an ERE is recorded and will then only do so in compliance with the recorded ERE. In addition, GE will no longer place any material generated from the site within the designated fill area without EPA approval.

*EPA Comment 2: GE shall revise Figure 1-2 to depict the boundary of the general area in the southwest corner of the RAA that has been subject to the placement of fill material.*

GE Response: The requested revision is shown on Figure 1-2 of this document.

*EPA Comment 3: GE shall revise Figure 1-2 to show the two storm water basins associated with the OPCAs, as indicated in the text of Section 1.2.*

GE Response: The requested revision is shown on Figure 1-2 of this document.

*EPA Comment 4: GE shall revise Section 2.2 to reflect that pre-design soil investigations were conducted between October 20, 2004 and July 5, 2007. The sample collected from location RAA9-A13N was collected on July 5, 2007.*

GE Response: A revised version of Section 2.2 from the Conceptual Work Plan is provided in Attachment A. This revision has also been incorporated into Section 3.2 of this document.

*EPA Comment 5: As indicated in the SOW, the standard of less than 10 ppm of PCBs in the top 3 feet of soil in utility corridors applies to recreational properties and appears to be incorrectly cited on page 14 of the Work Plan. GE shall provide an explanation of how this standard was evaluated for the utility corridors within the Hill 78 Area Remainder.*



GE Response: GE inadvertently included reference to the 10 parts per million (ppm) PCB spatial average backfill concentration requirement within the top 3 feet on page 14 of the Conceptual Work Plan. This requirement is applicable only to recreational areas. As indicated above, all evaluation areas associated with Hill 78 Area-Remainder are commercial and, therefore, the 10 ppm requirement does not apply to this RAA. A revised page 14 to the Conceptual Work Plan eliminating the reference to the 10 ppm requirement is included in Attachment A. This modification has also been incorporated into Section 4.2.1 of this document.

*EPA Comment 6: GE shall revise Figure B-33 to include the soil sample locations within the realigned storm and sanitary sewer corridor and table B-21 to include the analytical results for these soil samples.*

GE Response: Revised versions of Figure B-33 and Table B-21 are included in Attachment A.

*EPA Comment 7: GE shall revise Figure B-33 to correctly represent utility corridors and address any discrepancies between this figure and Figure 1 of GE's July 27, 2007, Hill 78 Area-Remainder Third Supplemental Data Letter. Specifically, GE shall review, and if necessary, adjust the utility corridors in the vicinity of grid transect N7, along Tyler Street Extension, and in the vicinity of grid transect I7 along the south side of the RAA boundary.*

GE Response: Based on a review of the above-referenced drawing, a revised Figure B-33 is included in Attachment A. As indicated above, the revised Table B-21 includes the relevant PCB analytical results associated with the corridors shown on Figure B-33. GE notes that Figure 1 of the Third Supplemental Data Letter inadvertently showed in cross-hatching certain areas with no utilities present, and GE has corrected these errors in the attached Figure B-33.

*EPA Comment 8: In the Final RD/RA Work Plan, GE shall determine if the "generating facility area" as evaluated in the Conceptual RD/RA Work Plan corresponds to the area as sold. If the areas are different, then GE shall reevaluate the area and propose for EPA approval additional response actions, if necessary.*

GE Response: As shown on Figure 1-2, the generating facility area as evaluated in the Conceptual Work Plan corresponds to the area of the facility as sold, pursuant to the Consent Decree Modification entered into in May 2008. The property on which the facility is located remains owned by GE.

*EPA Comment 9: GE shall consider the recent comments provided by EPA, and implemented by GE, regarding the East Street Area 2-North SIP, relative to contractor plans and the operations plan.*

GE Response: The above-referenced comments have been incorporated into Section 8.3 of this document as appropriate, and those comments applicable to the East Street Area 2-North SIP will be incorporated into the SIP for Hill 78 Area-Remainder when that document is prepared.

*EPA Comment 10: In accordance with condition #1 of EPA's October 22, 2007, CAL for GE's October 5, 2007, Addendum to Supplemental Sampling and Engineering Design Report for Re-routing of Sanitary and Storm Sewer Pipelines, GE is required to prepare a tree restoration plan following the rerouting of the storm and sanitary sewers and the remaining phase III final cover operations for the Hill 78 OPCA. That plan shall also include any restoration that may be required as a result of the remediation activities for the Hill 78 Area-Remainder RAA.*

GE Response: GE has installed the rerouted storm and sanitary sewer lines, but final grading and other restoration activities still remain to be performed. Following completion of those activities and the completion of phase III final cover operations for the Hill 78 OPCA, GE will prepare a tree restoration plan. In accordance with the above comment, that plan will also include any restoration activities that may be required as a results of the remediation activities to be conducted within Hill 78 Area-Remainder.

*EPA Comment 11: Figure 2-1 shows a number of "GE-Owned Paved Areas" that either are very small or are surrounded by numerous samples (for example, the concrete pads by substation 14-E and the eastern end of Tyler Street Extension). Conversely, Figure 2-1 shows a number of areas as "unpaved" that appear to be sampled on a paved frequency (for example, the electric switch yard and fuel oil storage tank area on Parcel K11-7-201). GE shall consider revising the spatial averaging tables to include as many areas as "unpaved" as possible for the purpose of meeting the Performance Standards and for the Grants of Environmental Restrictions and Easements. If a currently paved area can meet unpaved performance standards, GE's future inspection, maintenance, and surveying costs will be reduced, and the ERE will be less restrictive. Areas that are considered unpaved for Performance Standard and ERE purposes can remain as paved. As an exception to the foregoing, GE shall pave and keep paved the OPCA access road located to the south of Hill 78. Such road shall be a "paved" area under the ERE. GE shall provide a figure showing the extent of the areas that GE has considered "paved" and "unpaved" for the purposes of spatial averaging and the EREs.*

GE Response: In response to this comment, and as a highly conservative measure, GE has elected (based on constructability considerations) to treat all paved areas identified in the Conceptual Work Plan as unpaved for purposes of RD/RA evaluations. Considering the entire RAA as unpaved requires certain additional soil removal on Parcel K11-7-2 based on the 125 ppm not-to-exceed (NTE) level applicable to unpaved areas. Certain polygons (numbers 50, 51, 52, and 53) in the 0- to 0.5-foot depth increment associated with sample location H78B-30 that were evaluated in the Conceptual Work Plan as paved contain PCBs over this NTE level, requiring the additional soil removal. The final limits of removal within this parcel (as well as the rest of Hill 78 Area- Remainder) are shown on Figure 4-1 of this document, and polygon maps for the 0- to 1-foot depth increment are presented in Attachment A as Figures B-1 and B-2. Moreover, GE has revised the 0- to 1-foot and 0- to 15-foot evaluations associated with this parcel to reflect the expanded removal. Those revised post-remediation PCB 0- to 1-foot and 0- to 15-foot evaluations are provided in revised Tables B-6 and B-7 in Attachment A of this document and discussed further in Section 5.2.1. With regard to the other averaging areas at Hill 78 Area-Remainder (i.e., Parcels K11-7-1 and K11-7-201), no changes to the previous evaluations are required because: (1) no PCB concentrations in excess of NTE levels are found within the 0- to 1-foot depth increment in areas previously considered as paved within these areas; and (2) the results of the PCB evaluations presented in the Conceptual Work Plan for the entirety of these areas (paved and unpaved areas together) indicate that PCB Performance Standards will be achieved if each entire averaging area is evaluated as unpaved (i.e., Tables B-9, B-15, and B-18 of the Conceptual Work Plan indicate the 0- to 1-foot Performance Standards are met for each averaging area, which will be considered as entirely unpaved for evaluation purposes).

Notwithstanding the approach to evaluations discussed above, GE has paved the access road to the south of the Hill 78 OPCA and will maintain (as paved) a portion of that road (previously shown on Figure 4-1 of the Conceptual Work Plan and also shown on Figure 4-1 herein). Further, the portion of the access road to be maintained by GE will be shown as a paved area in the ERE for this property.

No additional investigations are required to treat the Hill 78 Area- Remainder as entirely unpaved since the existing dataset satisfies the unpaved sampling frequency. It should be noted that the soil boring at proposed grid node location RAA9-J14 was moved approximately 60 feet to the east during pre-design investigations due to presence of transformers and a soil boring could not be advanced at proposed grid node RAA9-H13 since this area is surrounded by a concrete wall and has a containment system associated with the above-ground fuel tank located in this area.

### 3. Summary of Pre-Design Activities and Available Soil Data

#### 3.1 General

The removal actions presented in this Final Work Plan are based on the results of extensive pre-design investigation activities performed by GE and EPA at Hill 78 Area-Remainder. Since Section 2 of the Conceptual Work Plan provided a detailed description of the pre-design investigation activities, as well as the corresponding data tables presenting the results of those investigations, only a summary of those investigations is provided herein.

#### 3.2 Summary of Pre-Design Soil Investigations

The pre-design investigation activities for Hill 78 Area-Remainder consisted of the following:

- Historical soil investigations conducted by GE, EPA, and others prior to October 2004.
- Initial pre-design soil investigation activities conducted by GE between October 2004 and February 2005, generally included the collection and analysis of soil samples for analysis of PCBs, and for certain of those samples, other Appendix IX+3 constituents.
- Supplemental pre-design investigation activities conducted by GE during the periods June 15, 2006 through August 17, 2006, February 13 through 15, 2007, June 5 through 7, 2007, and July 5, 2007. These supplemental investigations were conducted following performance of initial PDI investigations to satisfy certain sampling criteria and to further define the RAA boundary.
- GE also conducted supplemental investigations between May 9 and 24, 2007, to support the re-routing of sanitary and storm water sewer lines from beneath the Hill 78 OPCA to a location beneath the Parcel K11-7-2 Averaging Area within Hill 78 Area-Remainder.

The results of the pre-design activities listed above were provided in various documents to EPA and are the basis for the PCB and other Appendix IX+3 evaluations presented in the Conceptual Work Plan. The corresponding data summary tables providing the results of these sampling activities were provided in Appendices A and C of the Conceptual Work Plan.

## 4. Summary of PCB and Appendix IX+3 Evaluation Procedures

### 4.1 General

This section of the Final Work Plan summarizes the procedures used by GE to determine the need for and scope of soil-related removal actions to achieve the PCB and Appendix IX+3 Performance Standards specified in the SOW for the averaging areas located within Hill 78 Area-Remainder. This section also provides an overview of the PCB evaluation procedures (Section 4.2), followed by an overview of the evaluation procedures for other Appendix IX+3 constituents (Section 4.3).

### 4.2 Summary of PCB Evaluation Procedures

This section provides a description of the PCB evaluation procedures for Hill 78 Area-Remainder, which includes: (1) a description of the applicable PCB-related Performance Standards for this RAA; (2) a confirmation that EREs will be executed for the averaging areas located within Hill 78 Area-Remainder; (3) a summary of the PCB evaluation procedures for each averaging area; and (4) a summary of the utility corridor PCB evaluation procedures.

#### 4.2.1 PCB-Related Performance Standards

For the properties evaluated in the Conceptual Work Plan as GE-owned properties, which were Parcels K11-7-2 and K11-7-201, the Performance Standards related to PCBs in soil are set forth in Paragraph 25 of the CD and Section 2.2.2 of the SOW. The pertinent Performance Standards related to the presence of PCBs in soil at Hill 78 Area-Remainder may be summarized as follows:

- GE shall conduct the following actions for the top one foot of soil in each GE-owned commercial averaging area:
  - For any unpaved portion of such an averaging area where the spatial average PCB concentration in the top foot exceeds 25 ppm, GE shall either remove and replace soils or install a soil cover in accordance with the specifications for soil covers described in Attachment G of the SOW (Technical Requirements for Capping, Engineered Barriers, and Other Surface Covers) as necessary to achieve a spatial average PCB concentration of 25 ppm or below in the top foot.

- For any averaging area where the spatial average PCB concentration in the top foot exceeds 25 ppm in the entire area (paved and unpaved portions combined), GE shall recalculate the spatial average PCB concentration in that entire averaging area after incorporating the anticipated performance of the response actions described above, as applicable. If that recalculated spatial average PCB concentration still exceeds 25 ppm, GE shall maintain and enhance the existing pavement/concrete surfaces in those paved areas determined to cause the exceedance of the 25 ppm spatial average concentration for the top foot in the entire area. Any such enhancements will be in accordance with the specifications described for pavement enhancement in Attachment G of the SOW.
- Further, at each commercial averaging area that exceeds 0.5 acre in size, GE must ensure the removal of all soils in the top foot in unpaved portions that contain PCB concentrations greater than 125 ppm -- the NTE level -- if GE elects to consider the entire area as an averaging area.
- For GE-owned commercial averaging areas where the spatial average PCB concentration in the 1- to 6-foot depth increment exceeds 200 ppm (considering the paved and unpaved portions together), GE shall perform the following response actions. GE shall undertake a combination of removal and replacement of soils in unpaved areas and/or enhancement of existing pavement/concrete surfaces in paved areas (in accordance with the specifications for pavement enhancement in Attachment G of the SOW) as necessary to ensure that the PCB concentrations causing the spatial average to exceed 200 ppm in the 1- to 6-foot depth increment are removed or covered by enhanced pavement.
- After incorporating the anticipated performance of response actions in accordance with the foregoing Performance Standards, GE shall calculate the spatial average PCB concentration for the 0- to 15-foot depth increment. For any such averaging area where the spatial average PCB concentration exceeds 100 ppm in the 0- to 15-foot depth increment (after incorporating the anticipated performance of response actions, if any, for other depth increments), GE shall install an engineered barrier either over the soil (in currently unpaved areas) or over the pavement (in currently paved areas) in accordance with the specifications for engineered barriers in Attachment G of the SOW.

- In addition, at all areas where subgrade utilities potentially subject to future emergency repair requirements are present, if the spatial average PCB concentration for the soils in the utility corridor that may need to be removed during an emergency repair exceeds 200 ppm in the 1- to 6-foot depth increment, GE must evaluate whether any additional response actions are necessary. Further, if subgrade utilities are installed, repaired, or replaced, GE must ensure that the spatial average PCB concentration in the backfill material is at or below 25 ppm.

As indicated in the Conceptual Work Plan, with regard to Averaging Area 8, which encompasses Parcel K11-7-201, GE performed an evaluation of the entire averaging area including the property leased to PGC and a separate evaluation of the leased area only.

As indicated above, Parcel K11-7-1 was formerly owned by PGC and was therefore evaluated as a non-GE-owned property. For such properties, the SOW is ambiguous as to the Performance Standards that should apply. For non-GE-owned properties at the GE Plant -- specifically, the non-GE-owned commercial/industrial property at the Unkamet Brook RAA and the non-GE-owned portion of the commercial/industrial property (Parcel K10-14-1) within East Street Area 1-North -- the SOW specifies Performance Standards somewhat different than those applicable to the GE-owned industrial properties at the GE Plant. The specific Performance Standards that apply to the non-GE-owned parcels at these other RAAs depend on whether an ERE can be obtained for the property. For Hill 78 Area-Remainder, unlike these other RAAs, the SOW does not specify any soil Performance Standards for the PGC-owned parcel different than those specified for the rest of the RAA.

Nonetheless, GE proposed in the PDI Work Plan that the most appropriate set of Performance Standards for Parcel K11-7-1 would be the Performance Standards applicable to the non-GE-owned commercial/industrial parcels at Unkamet Brook and East Street Area 1-North, and, in particular, the Performance Standards for properties with an ERE. GE proposed to use only the Performance Standards for properties with an ERE because GE had an agreement with the predecessor of PGC to grant an ERE for this parcel. EPA specifically approved this proposal in its July 22, 2004 conditional approval of the PDI Work Plan. Although, as indicated above, this property is now owned by GE, and will be subject to an ERE as a GE-owned property, GE proposes, as a conservative measure, not to change the basis on which this property was evaluated in the Conceptual Work Plan. Therefore, the Performance Standards utilized for this property were as follows, recognizing that there are no paved areas on this parcel:

- If the spatial average PCB concentration in the top foot of the parcel (all of which is unpaved) exceeds 25 ppm, GE shall remove and replace soils as necessary to achieve that spatial average PCB concentration. In addition, since the property is over one-half acre in size, GE shall remove any soils containing PCB concentrations greater than 125 ppm in the top foot of soil.
- If the spatial average PCB concentration in the 1- to 6-foot depth interval exceeds 200 ppm, GE shall remove and replace soils as necessary to achieve that spatial average PCB concentration.
- If the remaining spatial average PCB concentration in the top 15 feet of soil exceeds 100 ppm (after incorporating the anticipated performance of any response actions for the 0- to 1-foot and 1- to 6-foot depth intervals), GE shall install an engineered barrier (in accordance with Attachment G to the SOW) in those areas determined to cause the exceedance of the 100 ppm spatial average concentration.

As GE is not aware of any utility corridors within Parcel K11-7-1, there are no relevant Performance Standards for this averaging area relating to utility corridors.

#### **4.2.2 Status of EREs**

All of the parcels within Hill 78 Area-Remainder are now GE-owned. GE has agreed in the CD to execute EREs on its properties within the Site. Therefore, GE will execute and record EREs for these averaging areas within this RAA after completion of the removal activities.

#### **4.2.3 Area-Specific PCB Evaluation Procedures**

Section 3.2.3 of the Conceptual Work Plan detailed the general procedures used to evaluate PCB concentrations in soil on an area-specific basis for the properties located within Hill 78 Area-Remainder. These procedures were established in Attachment E to the SOW (Protocols for PCB Spatial Averaging) and basically involved the following steps: (1) for areas where NTE levels apply, comparing the discrete PCB concentrations in the top foot of soil in unpaved areas to the applicable NTE levels; (2) comparing the existing spatial average PCB concentrations for the relevant depth increments at each area to the applicable PCB Performance Standards; (3) where there were exceedances of the applicable NTE levels or other Performance Standards, developing a remediation proposal to address those exceedances; and (4) repeating the evaluations for those areas in their proposed post-remediation condition to ensure that the proposed remediation would achieve the Performance Standards. The evaluation results were presented in Section 4 of



the Conceptual Work Plan on an area-by-area basis, with supporting documentation (i.e., Theissen polygon maps and averaging tables) provided in Appendix B of that document. As indicated in Section 2, Attachment A contains revised post-remediation PCB evaluations for the 0- to 1-foot and 0- to 15-foot depth increments associated with Parcel K11-7-2 based on an expanded removal area (further discussed in Section 5.2.1 below).

#### **4.2.4 Utility Corridor Evaluation Procedures**

As discussed in Section 3.2.4 of the Conceptual Work Plan, subsurface utilities potentially subject to emergency repairs were also subject to evaluation. Specifically, the corridor associated with each such utility was to be evaluated using the procedures described in Section 3.2.4 of the Conceptual Work Plan. As specified in Section 4.2.1 above, if the spatial average PCB concentration in a utility corridor exceeds 200 ppm within the 1- to 6-foot depth increment, GE must evaluate whether any additional response actions are necessary. However, as discussed in Section 3.2.4 of the Conceptual Work Plan and Section 2 of this document, there are no PCB concentrations greater than 200 ppm in any of the individual samples within the 1- to 6-foot depth increment in any of the existing utility corridors. Hence, the associated spatial average (if calculated) for each of these corridors would necessarily be below 200 ppm. As a result, further evaluations (i.e., performance of spatial averaging) were not necessary.

The Conceptual Work Plan also discussed the evaluation of utility corridors associated with the re-routed storm and sanitary sewer lines recently constructed beneath Hill 78 Area-Remainder and confirmed that all response actions found to be necessary in this area had been completed. Specifically, as previously approved by EPA, the spatial average PCB concentration calculated for the utility corridor (0.63 ppm) was applied to the soils associated with the 0- to 1-foot, 1- to 6-foot, and 0- to 15-foot depth increments and is well below the 200 ppm comparison level.

#### **4.3 Summary of Appendix IX+3 Constituent Evaluation Procedures**

This section provides an overview of the applicable Performance Standards for non-PCB Appendix IX+3 constituents in soil and the procedures used to assess achievement of those standards. As with PCBs, the other Appendix IX+3 constituents were evaluated for each evaluation area in its existing condition. As further described in Section 5 below, the Performance Standards associated with each evaluation area within Hill 78 Area-Remainder were achieved under existing conditions (i.e., no removal actions associated with non-PCB constituents are necessary).

With regard to the trench on Parcel K11-7-2 excavated for installation of re-routed storm and sanitary sewer lines, condition number 3 of EPA's letter dated October 22, 2007 conditionally approving GE's SS/ED Addendum required GE to include all samples collected from within the top 15 feet of the new utility corridor in the Appendix IX+3 evaluations performed for Parcel K11-7-2. The evaluations presented in the Conditional Work Plan comply with that condition.

#### 4.3.1 Applicable Performance Standards

The applicable Performance Standards for non-PCB constituents in soil at Hill 78 Area-Remainder are included in Section 2.2.2 of the SOW. These standards include the following:

- For dioxins/furans, total Toxicity Equivalency Quotient (TEQ) concentrations must be calculated using the Toxicity Equivalency Factors (TEFs) developed by the World Health Organization (WHO) (van den Berg J. *et al.*, Environ. Health Perspectives, Vol. 106, No. 12, Dec. 1998). Either the maximum TEQ concentration or the 95% percent Upper Confidence Limit on the mean (95% UCL) of the TEQ data must be below certain PRGs developed or approved by EPA for dioxin/furan TEQs. These PRGs are 5 parts per billion (ppb) in the top foot of soil and 20 ppb in subsurface soil for industrial areas.
- For other non-PCB constituents, any combination of the following must be achieved: (1) maximum concentrations of individual constituents that do not exceed the Screening PRGs established or approved by EPA (as discussed below); or (2) for the remaining constituents, average concentrations that either: (a) do not exceed the applicable MCP Method 1 soil standards (or Method 2 standards, if developed); or (b) are shown through an area-specific risk evaluation to have cumulative risk levels that do not exceed (after rounding) an Excess Lifetime Cancer Risk (ELCR) of  $1 \times 10^{-5}$  and a non-cancer Hazard Index (HI) of 1.

#### 4.3.2 Overview of Evaluation Process

The initial task performed in the evaluation of the non-PCB constituents in soil at Hill 78 Area-Remainder was to assess such constituents in soil at each averaging area under existing conditions, based on all available Appendix IX+3 data collected from that area, without considering PCB-related remediation. This assessment consisted of several steps:

- First, a screening step was conducted, which generally involved comparison of the maximum concentrations of all detected constituents (other than dioxin/furan TEQs) to the applicable PRGs developed by EPA Region 9 (as set forth in Exhibit F-1 to Attachment F of the SOW) or certain surrogate PRGs previously approved by EPA. In addition, as described in the Conceptual Work Plan, and as approved by EPA, 1,2,3-trichloropropane was screened out from further evaluation at Parcel K11-7-2 based on very low frequency of detection (detected in one of 80 samples). Additional details regarding this evaluation step were provided in Section 3.3.3 of the Conceptual Work Plan.
- Second, for dioxin/furan TEQs, the maximum concentration or 95% UCL (whichever is lower) at each area and relevant depth increment was compared to the applicable dioxin/furan PRG described above. Additional details regarding this evaluation step were provided in Section 3.3.4 of the Conceptual Work Plan.
- Third, for those constituents (other than dioxin/furan TEQs) that were not screened out in Step 1, the existing average concentrations of each such constituent were calculated for the same depth increments used for the required PCB evaluations, as specified in Section 4.2.1. These average concentrations were then compared to the applicable Massachusetts Contingency Plan (MCP) Method 1 soil standards for such constituents. Additional details regarding this evaluation step were provided in Section 3.3.5 of the Conceptual Work Plan.
- Fourth, in the one averaging area (Parcel K11-7-2) where there were exceedances of the Method 1 soil standards in any depth increment but such exceedances were not significantly above the Method 1 soil standards, an area-specific risk evaluation was conducted for the same constituents evaluated in Step 3 and in accordance with the procedures specified for such evaluations in the SOW. Additional details regarding this evaluation step were provided in Section 3.3.6 of the Conceptual Work Plan.

The results of the above steps were provided in the Conceptual Work Plan for each averaging area included in the Hill 78 Area-Remainder RAA. As discussed in Section 4 of the Conceptual Work Plan and further discussed below in Section 5, it was determined that no additional remediation was required to address non-PCB constituents in soil at Hill 78 Area-Remainder.

## 5. Summary of PCB and Non-PCB Soil Evaluation Results

### 5.1 General

Section 4 of the Conceptual Work Plan presented the results of the area-specific PCB and Appendix IX+3 evaluations that were performed for Hill 78 Area-Remainder in accordance with the evaluation procedures summarized in Section 3 of that document. The Conceptual Work Plan presented the following information for each averaging area within the RAA:

- Description of area and identification of Performance Standards;
- Evaluation of existing conditions with respect to PCBs and discussion of the need for remediation to address PCBs;
- Evaluation of existing conditions with respect to other Appendix IX+3 constituents and discussion of the need for remediation to address these constituents;
- Description of proposed removal actions (as shown on Figure 4-1); and
- Evaluation of post-remediation conditions with respect to PCBs, if required.

With regard to Parcel K11-7-201, GE evaluated the entire averaging area including the property leased to PGC and performed a separate evaluation of the leased area only.

Following the discussion of above-referenced area-specific evaluations, the Conceptual Work Plan presented a utility corridor data summary for PCBs. Finally, the Conceptual Work Plan presented an overall summary of the removal actions for Hill 78 Area-Remainder, including soil removal volume estimates.

In support of the PCB and Appendix IX+3 evaluations, the Conceptual Work Plan included backup documentation for the evaluations. Specifically, the spatial averaging tables and Theissen polygon maps developed in support of the area-specific PCB evaluations were presented in Appendix B of the Conceptual Work Plan, while the evaluation tables developed in support of the Appendix IX+3 evaluations were presented in Appendix C of that document. Finally, Appendix D of the Conceptual Work Plan presented the area-specific risk evaluations. As noted above, revised post-remediation PCB evaluation tables (Tables B-6 and B-7) and polygon maps (Figures B-1 and B-2) for Parcel K11-7-2, reflecting the additional NTE removal discussed above, are provided in Attachment A to this Final Work Plan.

**5.2 Overall Summary**

Based on the evaluations presented in Section 4 of the Conceptual Work Plan, removal actions consisting of soil removal/replacement at Parcel K11-7-1 and K11-7-2 at Hill 78 Area-Remainder were proposed by GE and approved by EPA. As presented in the Conceptual Work Plan, the Removal Actions to be conducted at Hill 78 Area-Remainder will be performed to address PCBs only because, as indicated above, non-PCB Performance Standards are satisfied under existing conditions at each averaging area. As indicated in response to EPA comment 11, discussed above in Section 2, GE has elected herein to treat all areas within Hill 78 Area-Remainder as unpaved areas for purposes of RD/RA evaluations. Please note that the final average and maximum PCB concentrations associated with the 0- to 1-foot and 0- to 15-foot depth increments at Parcel K11-7-2 provided below have been modified to reflect the expansion of the 1-foot excavation in the vicinity of sample location H78B-30 to include certain paved areas as shown on Figure 4-1 and the Technical Drawings provided in Attachment B. As indicated above, the revised post-remediation PCB evaluation for the 0- to 1-foot and 0- to 15-foot depth increments for this property, Tables B-6 and B-7, are provided in Attachment A of this document.

**5.2.1 PCB Evaluation – Summary**

Table 5-1 below lists the final average and maximum PCB concentrations for each depth increment (as appropriate) subject to evaluation at each averaging area, as well as the applicable PCB Performance Standard and NTE level. Table 5-1 also lists the currently estimated volume of soil removal.

**Table 5-1  
Final Average and Maximum PCB Concentrations and  
Estimated Soil Removal Volumes**

<b>Parcel</b>	<b>Final Average PCB Concentration (ppm)</b>	<b>PCB Performance Standard (ppm)</b>	<b>Final Maximum PCB Concentration (ppm)</b>	<b>NTE Level (ppm)</b>	<b>Estimated Soil Removal Volume (cubic yards)</b>
K11-7-2					915 (See Note 1)
0-1' (treated as all unpaved)	4.97	25	96	125	
1-6'	6.24	200			
0-15'	3.15	100			

**Table 5-1  
Final Average and Maximum PCB Concentrations and  
Estimated Soil Removal Volumes**

Parcel	Final Average PCB Concentration (ppm)	PCB Performance Standard (ppm)	Final Maximum PCB Concentration (ppm)	NTE Level (ppm)	Estimated Soil Removal Volume (cubic yards)
K11-7-201 (entire parcel)					0
0-1' (treated as all unpaved)	1.87	25	43	125	
1-6'	9.31	200			
0-15'	3.76	100			
K11-7-201 (leased portion only)					0
0-1' (treated as all unpaved)	1.80	25	43	125	
1-6'	9.45	200			
0-15'	4.15	100			
K11-7-1					25
0-1' (unpaved)	0.83	25	4.4	125	
1-6'	2.57	200			
0-15'	0.92	100			
Total					940

**Note:**

- The estimated soil removal volume of 915 cubic yards associated with Parcel K11-7-2 includes approximately 250 cubic yards removed during sewer relocation activities and 665 cubic yards of additional removal proposed in the Conceptual Work Plan. It should be noted that the removal volume associated with the sewer relocation activities (250 cubic yards) is slightly larger than the volume presented in the Conceptual Work Plan (228 cubic yards). This difference is the result of more accurate design information associated with these activities.

As indicated above, all final average and maximum PCB concentrations satisfy the applicable Performance Standards for each averaging area.

### 5.2.2 Utility-Related PCB Information

The soil-related PCB Performance Standards set forth in Paragraph 26 of the CD and Section 2.3.2 of the SOW provide that where subgrade utilities potentially subject to emergency repair requirements are present, if the spatial average PCB concentration in the utility corridor exceeds 200 ppm, GE must evaluate whether any additional response actions are necessary. As indicated in the Conceptual Work Plan and Section 2 above, the data collected from the 1- to 6-foot depth increment within the utility corridors at this RAA indicate that there are no discrete PCB sample results greater than 200 ppm within these corridors. As a result, further evaluation to address these utility corridors was not necessary.

In addition to GE's evaluation of existing utility corridors, GE also performed an evaluation of the corridors associated with the re-routed storm and sanitary sewer lines that have recently been constructed beneath Hill 78 Area-Remainder. As specified in the Conceptual Work Plan, the special average PCB concentration calculated for this utility corridor (0.63 ppm) is well below the comparison level of 200 ppm. The new pipeline corridor is shown on the revised Figure B-33 (presented in Attachment A) and the data collected from within that corridor are included on revised Table B-21 (also presented in Attachment A).

### 5.2.3 Appendix IX+3 Evaluation Summary

Information regarding the pre-remediation concentrations of non-PCB Appendix IX+3 constituents and corresponding area-specific risk evaluations (where necessary) is provided in Appendices C and D respectively, of the Conceptual Work Plan. As previously indicated, soil removal activities were not required to address non-PCB Appendix IX+3 constituents.

## 6. Design Information

### 6.1 General

This section discusses the Removal Action that has been identified to meet the applicable Performance Standards established in the CD and SOW for Hill 78 Area-Remainder. These activities generally involve the removal of soils, disposal of this material at appropriate off-site disposal facilities, backfilling of excavations with clean material, and general site restoration. These and other pertinent components of the construction activities are discussed in the remainder of this section. As discussed in Section 7, GE will select a Remediation Contractor to perform the removal actions proposed herein. Section 7 provides further details regarding that selection process, while Section 8 provides additional site-specific implementation details associated with construction of the various design components.

### 6.2 Technical Specifications

GE has developed design information for the Removal Action at Hill 78 Area-Remainder. The various design details are summarized in this Final Work Plan, but are more specifically described in the Technical Drawings and Specifications developed by GE for use in selecting a Remediation Contractor. These Technical Drawings and Specifications are provided in Attachments B and C, respectively, and include project-specific construction quality assurance requirements related to soil removal and other construction elements.

Certain of the plans comprising GE's Project Operations Plan (POP) provide additional design, construction, and implementation-related information relevant to the construction activities. With the exception of the FSP/QAPP and the Health and Safety Plan (HASP) (which was provided to EPA for informational purposes only), the latest revisions to the POP were conditionally approved by EPA on March 15, 2007, and the revised POP was submitted to EPA on March 30, 2007, and additional modifications to the POP may be agreed to by EPA and GE prior to performance of the work.

The POP contains a series of plans that address several common aspects of the Removal Actions Outside the River and apply to various activities to be conducted as part of those Removal Actions, ranging from initial pre-design activities to the performance and completion of remediation activities. Collectively, these plans describe the minimum requirements, general activities, protocols, and methodologies applicable to these Removal Actions. These plans include a Waste Characterization Plan, Soil Cover/Backfill Characterization Plan, Site Management Plan, Ambient Air Monitoring Plan, and Contingency and Emergency Procedures Plan. The POP also includes a CQAP, which



provides technical requirements related to items such as backfill, topsoil, seeding, mulch, etc. In addition, the CQAP specifies activities that are relevant to certain of the construction activities, such as soil placement and grading/compaction, survey control, etc. The general provisions of the POP are applicable to the Hill 78 Area-Remainder construction activities and are incorporated herein by reference.

### 6.3 Soil Removal Activities

As discussed in Section 5.2.1, GE will remove approximately 940 cubic yards of soil from the Hill 78 Area-Remainder. It should be noted that this total includes approximately 250 cubic yards of soil that was previously removed from the 0- to 1-foot depth increment on Parcel K11-7-2 as a result of the recently completed sewer relocation activities. The removal limits are shown in Figure 4-1 and Technical Drawing 3 in Attachment B. Based on a review of the analytical data located within the limits of removal actions, soils subject to removal will be transported to and properly disposed of at an appropriate off-site disposal facility, as further described in Section 8.5.2. Prior to initiating removal activities for the areas subject to soil removal, the horizontal limits of removal will be surveyed and staked in the field. During removal activities, field measurements will be made to verify that the target removal depth of 1 foot has been achieved for each excavation area. Following removal, topsoil will be obtained from an off-site source (Section 6.4 and 8.5.5) and will be placed to re-establish original grade. The provisions specified on the Technical Drawings (Attachment B) and in the Technical Specifications (Attachment C) and POP (including the Soil Cover/Backfill Characterization Plan and the CQAP) will be utilized during the removal and backfill activities.

### 6.4 Excavation Backfill

Topsoil will be used to backfill the excavations at Hill 78 Area-Remainder. Information regarding the measurement, composition, and deposition of acceptable topsoil is provided on the Technical Drawings and in the Technical Specifications provided in Attachments B and C, respectively.

The specific topsoil source to be used for this project will be identified by the selected Remediation Contractor. Topsoil to be used will originate either from an existing or new, currently unidentified source. Existing topsoil sources consist of those sources that have been previously used for other GE remediation projects in Pittsfield and have been previously qualified for such use in submittals to EPA and/or MDEP. The sample data presented in those documents include analyses for PCBs and Appendix IX+3 volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and metals. If such an existing, approved source has been used by GE within the past 18 months, these

prior analytical data will not be resubmitted to EPA. For any topsoil source that has not already been identified and characterized, representative samples of proposed fill materials will be collected and analyzed for PCBs and Appendix IX+3 VOCs, SVOCs, and metals, as required by GE’s approved Soil Cover/Backfill Characterization Plan provided in the POP. The name of the proposed topsoil source location and the results of the analyses will be submitted to EPA in a SIP prior to use of such material.

**6.5 Applicable or Relevant and Appropriate Requirements**

The Removal Actions to be conducted at Hill 78 Area-Remainder will be subject to several ARARs. Attachment B to the SOW identifies the chemical-specific, action-specific, and location-specific ARARs for Removal Actions Outside the River. As noted above, the Removal Action for Hill 78 Area-Remainder includes soil removal/replacement. These activities will be performed outside the 100-year floodplain of the Housatonic River. In these circumstances, this Removal Action is subject to the following ARARs identified in Attachment B to the SOW: action-specific ARARs identified in Table 2, subsection B (“Soil Removal”) and potentially subsection K (“Other”). Storage of any such materials on-site at the GE Plant Area prior to off-site disposal will be performed using procedures similar to the ARARs identified in Table 2, subsection H (“Temporary On-Site Storage of Free Product, Drums, and Equipment That Will Be Disposed of Off-Site”) of Attachment B to the SOW.

A summary of the key ARARs that were considered with respect to the remediation proposed herein, along with the associated project component(s) and means by which the ARAR is addressed by the design and implementation activities, is as follows:

ARAR	Associated Project Components	Means by Which ARAR Will Be Addressed
Toxic Substance Control Act (TSCA) Regulations (PCB Remediation Waste) (40 CFR 761.61)	- Soil removal	- EPA has determined that Removal Actions conducted in accordance with the CD and SOW will not pose an unreasonable risk of injury to health or the environment.
TSCA Regulations (Decontamination) (40 CFR 761.79)	- Soil removal (equipment cleaning)	- Will be attained by cleaning equipment as necessary in accordance with TSCA regulations (see Section 8.5.4)

ARAR	Associated Project Components	Means by Which ARAR Will Be Addressed
Resource Conservation and Recovery Act (RCRA) Hazardous Waste Regulations (40 CFR 261.24)	- Soil removal	- GE will review the relevant Appendix IX+3 data from the soils to be excavated, using a conservative screening tool (i.e., dividing the total sample results by 20) and comparing the results to allowable concentration limits associated with the Toxicity Characteristic Leaching Procedure (TCLP) under these regulations. Based on that comparison, the appropriate off-site disposal facility will be selected for the disposal of such soils. If needed, GE will also conduct TCLP sampling activities to supplement the existing Appendix IX+3 data.
Clean Water Act NPDES Regulations (Stormwater Discharges) (40 CFR 122.44(k); 40 CFR 122.26(c)(ii)(C); 40 CFR 125.100-.104)	- Soil removal	- Implementation of erosion and sedimentation controls (Section 8.4.5)
Massachusetts Air Pollution Control Requirements (310 CMR 7.09)	- Soil removal	- Implementation of dust control measures (as necessary) and air monitoring (Sections 8.5.1 and 8.6).
TSCA Regulations (Storage for Disposal) (40 CFR 761.61; 40 CFR 761.65)	- Temporary storage of removed materials	- Temporary storage of free product and liquids in tanks or containers at GE's existing on-plant tank system or hazardous waste storage facility, both of which meet the long-term PCB storage requirements of TSCA. - Temporary storage of drums and other equipment in containers at GE's existing on-plant hazardous waste storage facility, which meets the long-term PCB storage requirements of TSCA.
TSCA Regulations (PCB Marking Requirements) (40 CFR 761.40)	- Temporary storage of removed materials	- Will be attained by marking PCB items in accordance with these requirements.

ARAR	Associated Project Components	Means by Which ARAR Will Be Addressed
<p>RCRA Hazardous Waste Regulations (Storage of Hazardous Waste) (40 CFR 264, Subparts I and J (40 CFR 262.34)</p>	<ul style="list-style-type: none"> <li>- Temporary storage of removed materials</li> </ul>	<ul style="list-style-type: none"> <li>- Temporary storage of free product and liquids in tanks or containers at GE's existing on-plant tank system or hazardous waste storage facility, both of which meet the long-term PCB storage requirements of TSCA.</li> <li>- Temporary storage of drums and other equipment in containers at GE's existing on-plant hazardous waste storage facility.</li> <li>- Storage of materials in tanks will be limited to 90 days or less and will meet the substantive requirements for up to 90-day accumulation in tanks.</li> <li>- Materials in containers will be stored at GE's hazardous waste storage facility, which meets the requirements for long-term storage of hazardous waste in containers.</li> </ul>
<p>RCRA Hazardous Waste Management/Disposal Facilities Regulations (Preparedness and Prevention) (40 CFR 264, Subpart C)</p>	<ul style="list-style-type: none"> <li>- Temporary storage of removed materials</li> </ul>	<ul style="list-style-type: none"> <li>- GE's existing on-plant hazardous waste storage facility meets these requirements.</li> </ul>
<p>RCRA Hazardous Waste Management/Disposal Facilities Regulations (General) (40 CFR 264.13 - .19)</p>	<ul style="list-style-type: none"> <li>- Temporary storage of removed materials</li> </ul>	<ul style="list-style-type: none"> <li>- Operation of GE's existing on-plant hazardous waste storage facility meets these requirements.</li> </ul>
<p>RCRA Hazardous Waste Management/Disposal Facilities Regulations (Closure) (40 CFR 264.111 - .115)</p>	<ul style="list-style-type: none"> <li>- Temporary storage of removed materials</li> </ul>	<ul style="list-style-type: none"> <li>- Upon termination of operations, GE's existing on-plant hazardous waste storage facility will be closed in accordance with the substantive requirements of these regulations.</li> </ul>
<p>Massachusetts Hazardous Waste Regulations (Storage of Hazardous Waste) (310 CMR 30.680, 30.690, 30.340)</p>	<ul style="list-style-type: none"> <li>- Temporary storage of removed materials</li> </ul>	<ul style="list-style-type: none"> <li>- See discussion of Federal RCRA Hazardous Waste Regulations (Storage of Hazardous Waste) above.</li> </ul>

ARAR	Associated Project Components	Means by Which ARAR Will Be Addressed
Massachusetts Hazardous Waste Regulations (Closure) (310 CMR 30.580)	- Temporary storage of removed materials	- See discussion of Federal RCRA Hazardous Waste Regulations (Closure) above.
TSCA Spill Cleanup Policy (40 CFR 761, Subpart G)	- New PCB spills (if any) during on-site activities	- GE will consider and address cleanup policy for any new PCB spills that occur during the work.

In addition to the requirements specified above, if any historic or prehistoric artifacts or sites or any threatened or endangered species or species of special concern are identified by GE during the course of field activities, or identified by EPA or MDEP and communicated to GE, GE shall notify EPA and discuss with EPA the need for and scope of additional actions, if any, needed to protect such resources.

## 7. Contractor Selection

Following EPA's approval of this Final Work Plan and in accordance with the schedule to be agreed to by GE and EPA, GE will select a Remediation Contractor that is qualified to complete the on-site soil remediation/construction activities. To accomplish this, GE will provide prospective Remediation Contractors with appropriate documentation that describes the project, provides the Technical Drawings contained herein, provides Technical Specifications for completing the work, and solicits bids. GE and its Supervising Contractor (ARCADIS) will then review the potential Contractor bids for completeness, relevant experience, the proposed work schedule, and the Contractors' financial status. After the review is complete, GE will select the Remediation Contractor and initiate a contractual agreement.

Upon selection, the Remediation Contractor will be responsible for providing several submittals to GE, including those identified in Section 8.3 of this Final Work Plan. GE will subsequently provide the Contractor information and submittals to EPA in the SIP, as described in Section 10 of this Final Work Plan.

## 8. Implementation Plan

### 8.1 General

As indicated in Section 6.2, the POP contains a series of plans that address several common aspects for Removal Actions Outside the River. As relevant, those plans will be followed during implementation of the Removal Action associated with Hill 78 Area-Remainder.

As a supplement to the implementation-related procedures specified in the POP plans, this section provides additional details regarding certain construction activities. Specifically, this section identifies the requirements for project-specific plans to be submitted by the selected Remediation Contractor, describes site-specific elements of the site preparation and construction activities, and summarizes the perimeter air monitoring approach.

### 8.2 Project Participants

To the extent possible, the following table identifies the key project participants involved in the design and implementation of the remediation/construction activities summarized herein, along with their project roles and contact information:

Organization/Contact	Role	Address and Phone Number
United States Environmental Protection Agency Richard Hull	<ul style="list-style-type: none"> <li>- Lead regulatory agency.</li> <li>- Review and approval of Final Work Plan.</li> <li>- Oversight of removal actions.</li> </ul>	USEPA Region 1 One Congress Street, Suite 1100 Boston, MA 02114-2023 (617) 918-1882

Organization/Contact	Role	Address and Phone Number
<p>General Electric Company Richard Gates</p>	<ul style="list-style-type: none"> <li>- Supervise pre-design, construction, and documentation activities related to the Hill 78 Area-Remainder Removal Action.</li> <li>- Supervise implementation of the Removal Actions and related activities to ensure they are conducted in accordance with the CD.</li> <li>- Direct/coordinate activities of the Remediation Contractor and other GE-contracted organizations.</li> <li>- Responsible for preparation of a Final Completion Report.</li> </ul>	<p>General Electric Company 159 Plastics Avenue Building 59 Pittsfield, MA 01201 (413) 448-5909</p>
<p>ARCADIS James M. Nuss, P.E., LSP</p>	<ul style="list-style-type: none"> <li>- Supervising Remediation Contractor for GE.</li> <li>- Review Remediation Contractor submittals.</li> <li>- Project coordination and documentation.</li> <li>- Provide technical assistance related to implementation of the Removal Action.</li> <li>- Assist in verifying that the Removal Action is complete and performed in accordance with the Final Work Plan.</li> <li>- Prepare Final Completion Report.</li> </ul>	<p>ARCADIS 6723 Towpath Road Syracuse, NY 13214 (315) 446-9120</p>
<p>Berkshire Environmental Consultants, Inc. Maura Hawkins</p>	<ul style="list-style-type: none"> <li>- Design and implement perimeter air monitoring in conjunction with construction activities.</li> </ul>	<p>Berkshire Environmental Consultants, Inc. 152 North Street, Suite 250 Pittsfield, MA 01201 (413) 443-0130</p>
<p>Remediation Contractor (To be determined)</p>	<ul style="list-style-type: none"> <li>- Implement all construction-related activities.</li> </ul>	<p>(To be determined)</p>



### 8.3 Contractor Submittals

Once selected, the Remediation Contractor will be required to provide certain pre-mobilization submittals to demonstrate that the Contractor: (1) has an adequate understanding of the scope of the Removal Action; (2) has developed a project-specific sequence that can efficiently perform all on-site activities within the allowable schedule; (3) will utilize acceptable materials, products, and procedures; and (4) will perform all activities in a manner that is protective of on-site workers and the surrounding community. Certain of those submittals relate to the manner in which the work activities will be implemented and, as such, will supplement the information and procedures presented in this Final Work Plan. Those submittals include an Operations Plan, Health and Safety (HASP), and Contingency Plan. Each of these submittals is further described below.

#### Operations Plan

The purpose of the Operations Plan is to summarize the materials, procedures, timelines, and controls that the Contractor intends to utilize during project activities. This plan will be prepared in consultation with GE and its Supervising Contractor and will include the following:

- List of equipment to be used on site;
- Work Schedule;
- The Contractor's proposed plan for controlling vehicular and pedestrian traffic during the performance of construction activities;
- The Contractor's qualifications package (if requested by GE);
- Stormwater (including run-on and run-off), erosion, noise, and dust control measures;
- The Contractor's proposed excavation approach;
- Materials handling and staging approach;
- Measures and equipment to be used for dust suppression;

- Provisions for the inspection and decontamination of the exterior of transport and disposal vehicles prior to their departure from Hill 78 Area-Remainder; and
- Equipment cleaning procedures.

### **HASP**

The HASP will identify the Remediation Contractor's project-specific health and safety procedures and will be developed to address the minimum requirements established in the POP and 29 CFR 1910 and 1926. The plan will address those activities to be undertaken by the Contractor and present required information including, but not limited to, the following (as applicable):

- Training;
- Identification of key personnel (including the Contractor's Health and Safety Officer);
- Medical surveillance;
- Site hazards;
- Work zones;
- Personal safety equipment and protective clothing;
- Personal air monitoring;
- Personnel/equipment cleaning;
- Confined space entry;
- Construction safety procedures;
- Standard operating procedures and safety programs; and
- Material safety data sheets.

**Contingency Plan**

The Contingency Plan will set forth procedures for responding to emergency conditions or events that may occur during the performance of the Removal Action, and will include the following information:

- A spill prevention control and countermeasures plan for all materials brought on the work site;
- A control and countermeasures plan for all buried containers encountered during construction;
- Emergency vehicular access/egress;
- Evacuation procedures of personnel from the work site;
- For work sites that include or are adjacent to a surface water drainage way, a flood control contingency plan identifying measures to protect the work site(s) and the waterway from impact in the event of high water and/or flood conditions;
- A list of all contact personnel, with phone numbers and procedures for notifying each;
- Routes to local hospitals; and
- Identification of responsible personnel who will be in a position at all times to receive incoming phone calls and to dispatch Contractor personnel and equipment in the event of an emergency situation.

In addition to the required pre-mobilization document submittals specified above, the Remediation Contractor will be required to prepare a submittal(s) specifying the source and, if necessary, the corresponding analytical data for the proposed topsoil source to be used during the performance of this project.

Once developed by the selected Remediation Contractor and approved by GE, each of the above-listed Contractor submittals will be submitted to EPA in the SIP. In addition to these submittals, the Contractor is required to provide GE with various other submittals over the course of this project. The overall purpose of such submittals is to verify that the materials and procedures used in the construction activities are consistent with the design of the Removal Action. In accordance with the POP, all Contractor submittals will be tracked to confirm their receipt and approval. A copy of the Technical Submittal Register provided to

the prospective Contractors as part of the selection process for this project is provided in Attachment D. (Please note that submittals required by GE but not subject to submittal to EPA as part of the supplemental information package have been shaded.)

#### **8.4 Site Preparation**

General site preparation activities for Hill 78 Area-Remainder are shown on Technical Drawing 2 (Attachment B). Immediately prior to or following mobilization to the work area, the selected Remediation Contractor will perform several site preparation activities to establish the necessary site controls, features, and procedures for subsequent implementation of the construction activities. These activities include the following:

- Obtain utility clearance;
- Establishing site controls and access;
- Site survey and layout;
- Installing erosion and sedimentation control measures; and
- Surface preparation.

General information regarding various site preparation activities (e.g., coordinating with local utilities, permitting, verifying existing conditions, establishing work areas, etc.) is provided in the general CQAP (part of the POP); the information provided below supplements that CQAP by providing additional site-specific details associated with certain of these activities.

##### **8.4.1 Utility Clearances**

Aboveground and underground utilities that could potentially be affected by the construction activities will be identified prior to initiating any intrusive subsurface activities (e.g., soil excavation, etc.). As indicated on Technical Drawing 1 (Attachment B), certain aboveground and subsurface utilities are known to be present within and adjacent to Hill 78 Area-Remainder. Subsurface utilities include gas, high voltage electric, and sanitary and storm sewer lines that are present in the areas where remediation activities are to be performed. Aboveground utilities include overhead high voltage electrical lines, any other overhead power lines that may be present in such areas and, steam pipes. The selected Contractor will be responsible for coordinating with DIGSAFE and the City of Pittsfield to

determine the locations of all utilities at the start of the work and coordinating with the owners of the utilities regarding relocation/termination of any utilities, as required.

#### 8.4.2 Work Area Security

The level of work area security will depend on the activities being performed and the location of those activities. Security measures will be selected in consultation with the Remediation Contractor and may consist of temporary fencing or barriers, maintenance of sign-in/sign-out sheets, and implementation of safe work practices, as described below.

**Temporary Fencing** - Temporary construction fencing will be installed, as needed, to delineate and secure areas during ongoing construction activities. While other fencing configurations of equivalent performance may be considered, such temporary fencing is expected to be at least 4 feet in height, constructed of high-density polyethylene, and orange in color.

**Sign-In/Sign-Out Sheet** - For the duration of construction activities, a sign-in/sign-out sheet will be maintained for the work site. All on-site personnel and visitors will be required to sign in upon entering the work area and sign out upon leaving.

In addition, safe work practices will also be employed at this work site. These activities may include any of the following:

**Daily Safety Meetings** - Such meetings, commonly referred to as tailgate meetings, are typically held with the Contractor to discuss hazards potentially encountered during the planned daily activities.

**Posting of Warning Tape** - To restrict access during construction activities, warning tape may be installed at locations to delineate certain areas, such as the exclusion zone, contaminant reduction zone, and/or support zone.

**Use of Flagmen or Other Signaling Devices** - Certain excavation activities in high traffic areas may necessitate the use of flagmen or other signaling devices (i.e., flashing beacons mounted on sawhorses).

#### 8.4.3 “Clean” Access Area

Since a number of activities will require periodic access/egress between the work site and adjacent areas, a “clean” transition area will be established. Such an area will be used for equipment/material delivery and for the positioning of trucks for subsequent loading and off-

site transport of excavated materials. It is expected that each transport area will be constructed of gravel or a layer of geotextile fabric and will be properly delineated from the remainder of the property. The specific location and construction of the access area will be developed by the Remediation Contractor in accordance with the anticipated progression of the construction actions, as well as other factors such as the layout of the site, traffic patterns, and material handling procedures.

#### **8.4.4 Survey Control**

In accordance with the CQAP, survey controls will be established at the start of the work and maintained throughout the construction activities. GE will provide survey benchmarks so that the Remediation Contractor can establish appropriate horizontal and vertical control consistent with the existing survey data. As stated in the CQAP, the Remediation Contractor will establish a minimum 50-foot control grid within the areas subject to removal. This survey will be performed to verify that the horizontal and vertical limits of removals have been obtained and the final surface grade has been achieved to the existing elevations.

#### **8.4.5 Erosion and Sedimentation Control Measures**

Erosion and sedimentation control measures will be implemented to minimize the potential for erosion of exposed soils and subsequent accumulation of materials in site drainage pathways. In addition, these measures will be used to divert rainfall runoff from entering work areas and open excavations.

For Hill 78 Area-Remainder, erosion control measures to be implemented will include placement of staked hay bales and silt fencing around the perimeter of the excavations, plus additional area-specific measures, as required. The approximate location and layout of the hay bales and silt fencing are indicated on Technical Drawing 2 (Attachment B). Fencing will be placed at the start of the site work activities and will be maintained until a good stand of vegetation is established.

In addition to the hay bales and silt fence, other erosion and sedimentation control measures will be implemented as needed. At a minimum, this will include placement of erosion control measures around any temporary soil stockpiles.

#### 8.4.6 Surface Preparation

Various surface preparation activities will be performed prior to or in conjunction with the initial site preparation activities. These surface preparation activities are specified on Technical Drawing 2 (Attachment B).

### 8.5 Construction Activities

#### 8.5.1 Soil Removal and Materials Handling

The proposed Removal Actions will require excavation and handling of certain existing soils at Hill 78 Area-Remainder. Specifically, existing soils within the excavation limits and depths, as depicted on Technical Drawing 3 (Attachment B), will be removed using conventional construction equipment (e.g., excavator, backhoe, and loader). The maximum depth of excavation will be approximately 1 foot below ground surface (bgs). Based on the depth of excavation, excavation of saturated materials is not anticipated for the soil removal activities.

As soils are excavated, and prior to their transport to an appropriate off-site disposal facility, a number of intermediate on-site handling activities may be necessary. To ensure that such activities are performed in a manner that minimizes the potential for inadvertent releases to the environment, unsafe conditions for on-site and off-site personnel, and delays or complications in project completion, several on-site material handling procedures will be implemented. The specific method(s) of handling the removed soils will be based on, but not limited to, the following considerations:

- The characteristics of the excavated soils and corresponding disposition requirements;
- The locations from which the materials are removed and their proximity to the loading area(s); and
- The overall sequence and schedule of the Removal Actions.

To reduce the potential for the release of PCBs or other Appendix IX+3 constituents to the environment during removal and handling activities, the number of times that the excavated material is handled will be kept to a minimum. To accomplish this, the Remediation Contractor will conduct direct loading to trucks to the extent practical. Additional information regarding material handling is discussed below.

- To reduce the potential for migration of PCBs or other Appendix IX+3 constituents due to wind- and rainfall-related factors, temporary stockpiles (such as GE may construct at the GE plant site), staging areas, and work areas where excavation activities are yet to be completed will be protected with a cover (e.g., polyethylene sheeting) which will be anchored when the area is not under active excavation/use. In addition, if concerns regarding airborne dust are identified or suspected, water will be sprayed to keep the open excavation (or excavated soils) moist. Finally, to the extent possible, all temporary stockpiles and staging areas will be located in areas subject to future excavation activities, or existing buildings subject to future demolition to prevent possible contamination of clean soils. If such stockpiles or staging areas are required in areas not subject to future excavation, polyethylene sheeting will be placed under such stockpiles or staging areas and these areas will be bermed to prevent excavated soils or precipitation runoff from such stockpiles from contacting underlying soils.
- To the extent feasible and practicable, material handling and loading areas will not be established in locations that may interfere with construction operations or necessary traffic flow. In addition, material handling areas will be located so as to take into account site topography and avoid (to the extent possible) low-lying drainage areas where surface runoff is likely to accumulate.
- Additional erosion and sedimentation control measures (e.g., hay bales and/or silt fencing) will be utilized as described above in Section 8.4.5.

Based on the specified soil removal limits identified on Figure 4-1 and Technical Drawing 3 (Attachment B), the total volume of existing materials to be removed from Hill 78 Area-Remainder in the Removal Actions described herein (and not including the soils previously removed as part of the storm and sanitary line rerouting) is approximately 690 cubic yards. Based on a review of the analytical results collected within the remaining removal limits during previous investigations, GE has determined that all soils to be removed will be subject to disposition at an appropriate GE approved off-site disposal facility. Additional information regarding the transport and disposition of excavated materials is provided below in Section 8.5.2.

### **8.5.2 Transport and Disposition of Excavated Materials and Remediation-Derived Waste**

Previous sampling and analysis conducted for soils at Hill 78 Area-Remainder indicate that soils at the sampling locations that represent the remaining areas where soil will be excavated – representing approximately 690 cubic yards of soil – have PCB concentrations over 50 ppm and thus are regulated for disposal under TSCA. Excavated soils will be



transported to and disposed at an appropriate off-site disposal facility. In consultation with that off-site disposal facility, GE will perform an evaluation of the data to determine whether the excavated materials would constitute characteristic hazardous waste subject to regulation under RCRA, including, as appropriate, an initial screening evaluation to determine whether further hazardous waste characterization sampling is necessary. As appropriate, GE will collect additional samples for TCLP waste characterization sampling in accordance with the POP and the Waste Characterization Plan and/or at a frequency determined in consultation with the disposal facility. If this material is determined to be subject to RCRA disposal regulations, it will be sent for off-site disposal to a TSCA-and RCRA-approved disposal facility.

All excavated materials and remediation-related residual wastes will be loaded for disposal at the appropriate off-site disposal facility. Over-the-road transport of these materials will be performed by licensed haulers in accordance with appropriate local, state, and federal regulations. Dump trailers leaving the work area will be lined to prevent spillage during transportation (as necessary), manifested (as necessary), and placarded in accordance with federal and state requirements using Hazardous Waste Manifests. The Remediation Contractor will be required to implement the following procedures for the transport of excavated materials from Hill 78 Area-Remainder to the appropriate disposal facility:

- Employ qualified personnel trained per U.S. Department of Transportation (DOT) requirements for handling and shipping hazardous materials, with such training to include general safety, emergency response, exposure protection, accident prevention, preparation of shipping papers, and securing loads;
- Employ drivers that have a Commercial Driver's License (CDL) with a Hazardous Materials Endorsement;
- Utilize trucks that are DOT-inspected;
- Include in its HASP, Operations Plan, and Contingency Plan detailed provisions for responding to transportation emergencies such as spills, releases, or other incidents;
- Maintain records of the number of loads of materials sent to the off-site disposal facilities on a daily basis; and
- Confirm that the materials are suitable for transport (i.e., no free liquids).

The transport of excavated materials from Hill 78 Area-Remainder to the appropriate off-site disposal facility will be conducted in accordance with the following guidelines:

- After a safety check of the truck, the truck bed will be lined with polyethylene;
- Excavated soil will be placed in the truck and the load will be covered; and
- An appropriate Hazardous Waste Manifest will be prepared and signed by the truck driver and the appropriate disposal facility.

### **8.5.3 Backfilling of Excavations**

Backfilling operations will be initiated as soon as practicable after completion and proper documentation of excavation activities (i.e., survey control). It is anticipated that the excavations will be backfilled with topsoil. Following backfilling, excavation areas will be subject to seeding and mulching activities to establish adequate vegetation.

Topsoil will be clean, natural material. The specific topsoil source to be used for this project will be identified by the Remediation Contractor. A description of the process for identifying such a source and, if necessary, submitting the analytical data for them was presented in Section 6.4.

### **8.5.4 Equipment Cleaning**

Equipment and materials that have come into contact with existing soils at Hill 78 Area-Remainder during the construction activities will be cleaned prior to relocation to an area outside the work zone (i.e., the excavation and loading areas), prior to handling backfill materials, and prior to its departure from Hill 78 Area-Remainder. Equipment cleaning will be conducted as specified in Section 3.5 of the Site Management Plan in the POP.

### **8.5.5 Restoration of Disturbed Vegetation**

This section pertains to the restoration of vegetated areas both within and outside of the soil removal limits. Technical Drawing 4 (Attachment B) depicts the areas that will be subject to vegetative restoration. As indicated above, excavation areas will be backfilled with topsoil to restore pre-excavation grades. Once backfilled, the areas will be seeded and mulched. In accordance with condition 10 of EPA's April 23, 2008 conditional approval letter regarding the Conceptual Work Plan, GE will prepare a tree restoration plan following completion of the Phase III final cover operations for the Hill 78 OPCA. That plan will also include any restoration activities that may be required as a result of the remediation activities to be conducted within Hill 78 Area-Remainder.

## 8.6 Perimeter Air Monitoring

Similar to ongoing final cap placement activities at the OPCAs and recently completed activities associated with the sanitary and storm sewer pipeline re-routing, dust control will be conducted based on visual observations, monitoring performed by the Contractor, and/or the results of particulate monitoring conducted by GE. The presence of visible dust during the performance of construction activities will result in temporary suspension of work activities and the implementation of appropriate dust control measures (e.g., spraying water, hauling materials in properly tarped vehicles, restricting vehicle speeds, covering soil piles with polyethylene sheeting).

Perimeter particulate air monitoring will be conducted daily by GE during project activities that include active construction, materials handling, and off-site material transport. Perimeter PCB air monitoring activities will be conducted by GE on a weekly basis once the perimeter PCB air monitoring currently being performed at the Hill 78 OPCA ceases. It is anticipated that the monitoring locations currently used for OPCA operations will also be used for air monitoring during the removal activities described herein.

## 9. Post-Construction Activities

### 9.1 General

This section addresses the post-construction activities to be performed by GE at Hill 78 Area-Remainder. These activities include project closeout activities (including preparation of and submittal of a Final Completion Report) and Post-Removal Site Control activities. Each of these topics is further discussed below.

### 9.2 Project Closeout – Pre-Certification Inspection and Completion Report

Once GE has determined that the Removal Action for Hill 78 Area-Remainder is complete (excluding Post-Removal Site Control activities) and the applicable Performance Standards have been attained, GE will schedule and conduct a pre-certification inspection with EPA and MDEP. This inspection will be conducted within 90 days after GE concludes that the Removal Action is complete.

After the pre-certification inspection, GE will proceed with remaining closeout activities, which will consist of development and submittal of a Final Completion Report to summarize and document the scope of the completed Removal Action activities. At a minimum, the Final Completion Report will include the following:

- A description of the Removal Action performed;
- Identification of any deviations from the design submittals approved by EPA;
- A listing of Removal Action quantities, including soil volumes removed;
- Results of quality assurance/quality control (QA/QC) testing performed during the Removal Action;
- Survey data to document the current grade and final surface contours;
- Copies of Record Drawings developed by the Contractor to document the as-built conditions;
- Representative project photographs;

- Documentation regarding the disposition of materials excavated in conjunction with the construction activities; and
- A summary of Post-Removal Site Control Activities and a schedule for such activities.

As indicated in Section 10, the Final Completion Report will be submitted to EPA within 30 days after the pre-certification inspection (or at such other time as may be proposed by GE and approved by EPA at the time of that inspection).

GE acknowledges that an ERE must be recorded covering each of the parcels constituting Hill 78 Area-Remainder prior to the submission of a Final Completion Report and before EPA issues a Certificate of Completion for this Removal Action.

### **9.3 Post-Removal Site Control Activities**

Post-construction inspection and maintenance (I/M) activities will be performed at Hill 78 Area-Remainder, as required by Technical Attachment J to the SOW. A Post-Removal Site Control Plan (PRSCP) which describes and identifies the frequencies and duration of these I/M activities is included as Attachment E.

## 10. Schedule

As described in Section 7, GE will develop and submit appropriate documentation to potential Remediation Contractors following EPA's approval of this Final Work Plan, at a time to be agreed upon between EPA and GE. Further, GE proposes that within approximately 30 days of selection of a Remediation Contractor, GE will submit a SIP to EPA as a follow-up to this Final Work Plan. The SIP is anticipated to include the following:

- Identification of and contact information for the selected Remediation Contractor;
- Copies of the Remediation Contractor's pre-mobilization submittals (i.e., Operations Plan, HASP, and Contingency Plan);
- Identification of the topsoil source and location; and
- Analytical data for samples collected from the topsoil source (unless the topsoil source has already been approved based on previously submitted analytical data).

Following EPA approval of the SIP, on a schedule to be discussed with EPA, site preparation activities will be initiated. The specific schedule for the implementation and completion of the Removal Actions at this RAA will depend on several factors, including the timing of EPA approval of this Final Work Plan and the SIP. As such, GE will discuss with EPA the possible timing of remediation activities for Hill 78 Area-Remainder.

Additional details regarding overall project duration, including an estimate of the duration of the entire project in working weeks, will be provided in the Remediation Contractor's Work Schedule – which is a required component of the Operations Plan submittal (Section 8.3) – to be provided to EPA as part of the forthcoming SIP.

Within 90 days of completing the field construction activities, GE will schedule and conduct a pre-certification inspection with EPA and MDEP, as described in Section 9.2. Within 30 days thereafter, or at such other time as proposed by GE and approved by EPA at the time of the inspection, GE will submit a Final Completion Report on this Removal Action. That report will represent the completion of the CD-required construction activities. Periodic inspection reports will be provided thereafter to EPA in accordance with the schedules outlined in Attachment E.

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**Figures**







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**Attachments**

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**Attachment A**

Modified Sections of the  
Conceptual Work Plan in  
Response to EPA Comments

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- In addition, at all areas where subgrade utilities potentially subject to emergency repair requirements are present, if the spatial average PCB concentration in the utility corridor exceeds 200 ppm, GE must evaluate whether any additional response actions are necessary. Further, if subgrade utilities are installed, repaired, or replaced, GE must ensure that the spatial average PCB concentration in the backfill material is less than 25 ppm.

As noted above, with regard to Averaging Area 8, encompassing Parcel K11-7-201, GE has performed an evaluation of the entire averaging area including the property leased to PGC and performed a separate evaluation of the leased area only.

For Parcel K11-7-1, owned by PGC, the SOW is ambiguous as to the Performance Standards that should apply. For non-GE-owned properties at the GE Plant -- specifically, the non-GE-owned commercial/industrial property at the Unkamet Brook RAA and the non-GE-owned portion of the commercial/industrial property (Parcel K10-14-1) within East Street Area 1-North -- the SOW specifies Performance Standards somewhat different than those applicable to the GE-owned industrial properties at the GE Plant. The specific Performance Standards that apply to the non-GE-owned parcels at these other RAAs depend on whether a Grant of Environmental Restriction and Easement (ERE) can be obtained for the property. For Hill 78 Area-Remainder, unlike these other RAAs, the SOW does not specify any soil Performance Standards for the PGC-owned parcel different than those specified for the rest of the RAA.

Nonetheless, GE proposed in the PDI Work Plan that the most appropriate set of Performance Standards for Parcel K11-7-1 would be the Performance Standards applicable to the non-GE-owned commercial/industrial parcels at Unkamet Brook and East Street Area 1-North, and, in particular, the Performance Standards for properties with an ERE. GE proposed to use only the Performance Standards for properties with an ERE because GE has an agreement with the predecessor of PGC to grant an ERE for this parcel. EPA specifically approved this proposal in its July 22, 2004 conditional approval of the PDI Work Plan. Therefore, on the understanding that GE can obtain an ERE on this property, the Performance Standards would be as follows, recognizing that there are no paved areas on the PGC parcel:

- If the spatial average PCB concentration in the top foot of the parcel (all of which is unpaved) exceeds 25 ppm, GE shall remove and replace soils as necessary to achieve that spatial average PCB concentration. In addition, since the property is over one-half acre in size, GE shall remove any soils containing PCB concentrations greater than 125 ppm in the top foot of soil.

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Revised Section 2.2

## 2. Summary of Pre-Design Activities and Available Soil Data

### 2.1 General

Prior to the submittal of a Conceptual RD/RA Work Plan for a given RAA, the CD and SOW require the characterization of soils within the RAA and the collection of other relevant site information. These activities, collectively referred to as pre-design activities, serve as the basis for the subsequent technical RD/RA submittals. This section provides a summary of the pre-design activities that have been performed by GE at Hill 78 Area-Remainder. These activities have primarily involved the performance of soil sampling and analyses in accordance with the investigation requirements contained in the CD and SOW; such activities have been previously summarized in documents provided to EPA. In addition, GE has also conducted other pre-design activities to supplement the soil characterization program and to support the evaluations presented herein. These additional activities include the performance of a detailed site survey, including paved and unpaved areas, surface elevations and topography, property boundaries and easements, certain utilities (e.g., manholes, catch basins), soil sample locations, and other site features.

A summary of pre-design soil investigation activities is provided below.

### 2.2 Summary of Pre-Design Soil Investigations

Pre-design soil investigations were performed within Hill 78 Area-Remainder between October 20, 2004 and July 5, 2007. These investigations were conducted in accordance with the EPA-approved documents listed in Section 1.1. The initial and supplemental pre-design investigations involved the collection and analysis of a total of approximately 992 soil samples for PCBs and between 151 and 156 soil samples, depending on the particular constituents analyzed, for some or all of the Appendix IX+3 constituents. These sample totals include usable historical samples and samples collected by GE, EPA, and others during soil investigations performed prior to execution of the CD.

#### 2.2.1 Initial Pre-Design Soil Investigations

GE's PDI Work Plan and PDI Work Plan Addendum proposed the scope of initial pre-design investigations for Hill 78 Area-Remainder. These submittals were conditionally approved by EPA in letters dated July 22, 2004 and September 8, 2004, respectively. GE performed the pre-design field investigations between October 20, 2004 and February 4, 2005, and presented the results of these investigations in the PDI Report. The PDI Report also included soil sampling results from certain historical soil investigations conducted at Hill 78 Area-Remainder prior to and not associated with the pre-design investigation activities.

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Revised Post-Remediation PCB  
evaluations for the 0- to 1-Foot  
(Paved and Unpaved) and 0- to  
15-Foot Depth Increments at  
Parcel K11-7-2



**TABLE B-6  
POST-REMEDATION CONDITIONS  
PARCEL K11-7-2: 0- TO 1-FOOT DEPTH INCREMENT (PAVED AND UNPAVED)**

**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**0- TO 0.5-FOOT DEPTH INCREMENT**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
78-6	22,252	1,606	0 - 0.5	0.025	29.74	0.03	0.74
AS-96-104	299	80	0 - 0.5	0.12	1.49	0.12	0.18
AS-96-105	399	1,164	0 - 0.5	0.23	21.55	0.23	4.96
AS-96-106	399A	762	0 - 0.5	0.0205	14.11	0.02	0.29
AS-96-107	231	455	0 - 0.5	0.061	8.42	0.06	0.51
AS-96-108	105,400	2,616	0 - 0.5	0.37	48.44	0.37	17.92
AS-97-127	300	32	0 - 0.5	0.0215	0.59	0.02	0.01
ASB-12	106,401	2,005	0 - 0.5	0.21	37.14	0.21	7.80
ASB-26	107,402	1,401	0 - 0.5	5.6	25.94	5.60	145.29
ASB-27	44,301	1,160	0 - 0.5	25	21.48	25.00	537.00
ASB-28	403	390	0 - 0.5	87	7.23	87.00	628.73
B4	404	544	0 - 0.5	1.3	10.07	1.30	13.09
B5	302	377	0 - 0.5	1.9	6.98	1.90	13.27
DRA-SB-1	23,253,254,255,256	1,541	0 - 0.5	0.069	28.54	0.07	1.97
DRA-SB-2	47,305,306	2,994	0 - 0.5	0.13	55.44	0.13	7.21
DRA-SB-3	109,409,410	3,298	0 - 0.5	0.05	61.08	0.05	3.05
DRA-SB-4	6,199	2,167	0 - 0.5	0.058	40.13	0.06	2.33
DRA-SB-5	110,411	2,944	0 - 0.5	1.4	54.52	1.40	76.32
DRA-SB-6	48,307	3,365	0 - 0.5	0.2	62.32	0.20	12.46
DRA-SB-7	111,412	2,833	0 - 0.5	0.14	52.46	0.14	7.34
DRA-SB-8	24,258	2,862	0 - 0.5	0.38	53.01	0.38	20.14
DRA-SB-9	112,413	2,582	0 - 0.5	0.021	47.82	0.02	1.00
DRA-SB-10	108,405	2,307	0 - 0.5	0.042	42.73	0.04	1.79
DRA-SB-11	45,303	2,120	0 - 0.5	0.033	39.26	0.03	1.30
DRA-SB-12	406	232	0 - 0.5	0.042	4.29	0.04	0.18
DRA-SB-14	407	313	0 - 0.5	0.019	5.80	0.02	0.11
DRA-SB-15	46,304	1,693	0 - 0.5	0.0195	31.36	0.02	0.61
DRA-SB-17	257	7	0 - 0.5	0.068	0.13	0.07	0.01
DRA-SB-18	408	740	0 - 0.5	0.088	13.71	0.09	1.21
H78B-13	309	4,472	0 - 0.5	0.6	82.81	0.60	49.68
H78B-21	25,259,260	4,084	0 - 0.5	0.22	75.64	0.22	16.64
H78B-24	49,310	773	0 - 0.5	7	14.32	7.00	100.24
H78B-25	114,115,416	2,621	0 - 0.5	25	48.54	25.00	1,213.43
H78B-27	218	4,995	0 - 0.5	0.021	92.50	0.02	1.94
H78B-30	50,51,52,53,311	4,278	0 - 0.5	0.021	79.22	0.02	1.66
H78B-31	117,419	4,343	0 - 0.5	1.3	80.43	1.30	104.56
H78SS-1	420	5,000	0 - 0.5	1.6	92.59	1.60	148.15
H78SS-3	16	129	0 - 0.5	0.16	2.40	0.16	0.38
H78SS-5	313	335	0 - 0.5	0.17	6.21	0.17	1.06
H78SS-6	423	271	0 - 0.5	0.14	5.01	0.14	0.70
H78SS-7	263	6	0 - 0.5	1.7	0.11	1.70	0.19
H78SS-8	425	229	0 - 0.5	4.4	4.23	4.40	18.63
K23	314	377	0 - 0.5	1	6.98	1.00	6.98
K24	426	87	0 - 0.5	3	1.61	3.00	4.84
K25	195	4	0 - 0.5	1	0.08	1.00	0.08
OPCA-1	429	173	0 - 0.5	0.0215	3.20	0.02	0.07
OPCA-5	430	1,265	0 - 0.5	22	23.42	22.00	515.18
OPCA-6	318	6,809	0 - 0.5	0.077	126.09	0.08	9.71
OPCA-7	432	368	0 - 0.5	0.78	6.82	0.78	5.32
OPCA-Pipeline-1	319	4,194	0 - 0.5	0.016	77.67	0.02	1.24
OPCA-Pipeline-2	433	2,684	0 - 0.5	0.015	49.71	0.02	0.75
OPCA-SB-1	266	1,994	0 - 0.5	1.1	36.93	1.10	40.63
OPCA-SB-2	436,437	1,710	0 - 0.5	0.16	31.66	0.16	5.07
OPCA-SB-4	440,441	947	0 - 0.5	0.93	17.54	0.93	16.32
OPCA-SB-7	200,201	2,936	0 - 0.5	30	54.38	30.00	1,631.38
OPCA-SB-11	118,119,120,434	3,045	0 - 0.5	0.615	56.39	0.62	34.68
OPCA-SB-13	54,55,320	1,686	0 - 0.5	0.0091	31.22	0.01	0.28
OPCA-SB-14	121,122	1,753	0 - 0.5	1.7	32.47	1.70	55.19
OPCA-SB-16	17,18,235	1,277	0 - 0.5	6.2	23.64	6.20	146.58

**TABLE B-6**  
**POST-REMEDIATION CONDITIONS**  
**PARCEL K11-7-2: 0- TO 1-FOOT DEPTH INCREMENT (PAVED AND UNPAVED)**

**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**0- TO 0.5-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
OPCA-SB-17	123,435	1,318	0 - 0.5	0.021	24.41	0.02	0.51
OPCA-SB-18	56,57,321,322	1,957	0 - 0.5	0.044	36.24	0.04	1.59
OPCA-SB-20	28,267,268	1,446	0 - 0.5	0.014	26.78	0.01	0.37
OPCA-SB-21	124,438,439	1,587	0 - 0.5	0.0295	29.39	0.03	0.87
OPCA-SB-22	323	400	0 - 0.5	0.26	7.40	0.26	1.92
PS-W-3	13,220	3,755	0 - 0.5	2.8	69.54	2.80	194.71
PS-W-5	137,460	3,655	0 - 0.5	20	67.69	20.00	1,353.88
PS-W-7	333	3,352	0 - 0.5	1.63	62.08	1.63	101.18
PS-W-9	461	2,789	0 - 0.5	0.65	51.64	0.65	33.57
PS-W-11	326,327	1,651	0 - 0.5	2.36	30.58	2.36	72.17
PS-W-13	447,448	1,201	0 - 0.5	8.6	22.24	8.60	191.23
PS-W-15	236,237	1,692	0 - 0.5	21.8	31.34	21.80	683.25
PS-W-17	126,127,449,450	3,343	0 - 0.5	8.4	61.91	8.40	520.09
PS-W-18	58,59,328	2,550	0 - 0.5	4.7	47.22	4.70	221.93
PS-W-22	128,129,451,452	3,083	0 - 0.5	28.6	57.10	28.60	1,633.08
PS-W-24	29,30,270,271	2,546	0 - 0.5	96	47.16	96.00	4,527.02
PS-W-25	130,131,453,454	3,493	0 - 0.5	70.6	64.69	70.60	4,567.00
PS-W-26	60,61,329,330	5,035	0 - 0.5	38	93.23	38.00	3,542.80
PS-W-27	133,134,455,456	3,436	0 - 0.5	31	63.62	31.00	1,972.35
PS-W-30	135,457	2,248	0 - 0.5	37.2	41.63	37.20	1,548.50
PS-W-34	62,331,332	5,515	0 - 0.5	15.8	102.12	15.80	1,613.52
PS-W-38	136,458,459	7,171	0 - 0.5	1.95	132.80	1.95	258.96
PS-W-42	31,32,272	4,860	0 - 0.5	5.9	89.99	5.90	530.96
RAA9-1	336	882	0 - 0.5	0.59	16.32	0.59	9.63
RAA9-A13	4,193,194	4,585	0 - 0.5	0.028	84.90	0.03	2.38
RAA9-A13N	465	876	0 - 0.5	0.073	16.23	0.07	1.18
RAA9-A14	64,337,338	7,252	0 - 0.5	0.01	134.29	0.01	1.34
RAA9-B11	141,466	1,655	0 - 0.5	0.047	30.65	0.05	1.44
RAA9-B12	33,274	1,107	0 - 0.5	0.03	20.49	0.03	0.61
RAA9-B18	467	4,626	0 - 0.5	0.041	85.67	0.04	3.51
RAA9-C9	142,468	1,937	0 - 0.5	0.055	35.87	0.06	1.97
RAA9-D7	20,239	790	0 - 0.5	0.056	14.63	0.06	0.82
RAA9-D9	469	1,448	0 - 0.5	0.78	26.81	0.78	20.92
RAA9-E5	65,339,340	5,415	0 - 0.5	0.026	100.28	0.03	2.61
RAA9-E6	143,470,471	7,984	0 - 0.5	<b>0.01675</b>	147.86	0.02	2.48
RAA9-E7	34,275,276	1,642	0 - 0.5	0.68	30.41	0.68	20.68
RAA9-F3	147,478,479	5,966	0 - 0.5	0.181	110.49	0.18	20.00
RAA9-F4	71,346,347	8,736	0 - 0.5	<b>0.017</b>	161.78	0.02	2.75
RAA9-F5	148,480,481	9,088	0 - 0.5	0.04	168.29	0.04	6.73
RAA9-F6	35,277	7,761	0 - 0.5	0.75	143.72	0.75	107.79
RAA9-F7	149,482	698	0 - 0.5	0.47	12.93	0.47	6.08
RAA9-G2S	151,490,491	11,346	0 - 0.5	0.029	210.11	0.03	6.09
RAA9-G3	79,351,352	10,174	0 - 0.5	0.125	188.41	0.13	23.55
RAA9-G4	492	8,479	0 - 0.5	<b>0.0195</b>	157.01	0.02	3.06
RAA9-G5	36,37,38,39,278	9,770	0 - 0.5	0.049	180.92	0.05	8.87
RAA9-G7	152,153	1,312	0 - 0.5	28	24.29	28.00	680.16
RAA9-H2	279	6,921	0 - 0.5	0.041	128.16	0.04	5.25
RAA9-H3	241	7,223	0 - 0.5	0.041	133.75	0.04	5.48
RAA9-H4	504	8,900	0 - 0.5	0.025	164.82	0.03	4.12
RAA9-H5	82,83,357,358	9,200	0 - 0.5	0.112	170.37	0.11	19.08
RAA9-H6	161,162,163,164,505,506	6,072	0 - 0.5	0.37	112.45	0.37	41.61
RAA9-H7	40,41,280	5,543	0 - 0.5	<b>0.018</b>	102.64	0.02	1.85
RAA9-I2	363	4,062	0 - 0.5	1.02	75.23	1.02	76.73
RAA9-I3	517	8,931	0 - 0.5	12.5	165.39	12.50	2,067.43
RAA9-I4	242	9,802	0 - 0.5	0.199	181.52	0.20	36.12
RAA9-I5	173,518	7,877	0 - 0.5	16.5	145.88	16.50	2,406.94
RAA9-I6	93,94,95,365	9,105	0 - 0.5	0.62	168.62	0.62	104.54
RAA9-J3	243	7,343	0 - 0.5	6.2	135.99	6.20	843.13
RAA9-J4	178,529	8,183	0 - 0.5	2.88	151.53	2.88	436.41

**TABLE B-6  
POST-REMEDIATION CONDITIONS  
PARCEL K11-7-2: 0- TO 1-FOOT DEPTH INCREMENT (PAVED AND UNPAVED)**

**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**0- TO 0.5-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA9-J5	98,371,372	4,193	0 - 0.5	0.165	77.64	0.17	12.81
RAA9-J8	530	7,757	0 - 0.5	0.56	143.65	0.56	80.44
RAA9-J9	285	8,659	0 - 0.5	0.021	160.36	0.02	3.37
RAA9-J10*	3	5,542	0 - 0.5	0.021	102.63	0.02	2.16
RAA9-J11	282,283	2,623	0 - 0.5	0.208	48.58	0.21	10.11
RAA9-J12	519	4,346	0 - 0.5	0.266	80.47	0.27	21.41
RAA9-J13	367	1,925	0 - 0.5	2.48	35.64	2.48	88.39
RAA9-K3	181,538	2,797	0 - 0.5	7.3	51.80	7.30	378.14
RAA9-K5	42,287	7,983	0 - 0.5	39	147.83	39.00	5,765.49
RAA9-K6	182,183,539,540	8,459	0 - 0.5	33	156.65	33.00	5,169.42
RAA9-K7	101,102,379	9,890	0 - 0.5	10.9	183.14	10.90	1,996.26
RAA9-K8	184,185,541	8,914	0 - 0.5	7.8	165.07	7.80	1,287.53
RAA9-K9	216	4,552	0 - 0.5	0.159	84.30	0.16	13.40
RAA9-K9.5	543	3,224	0 - 0.5	0.6	59.70	0.60	35.82
RAA9-K11	531	7,995	0 - 0.5	0.225	148.06	0.23	33.31
RAA9-K12	373,374	4,855	0 - 0.5	0.93	89.90	0.93	83.61
RAA9-K12*	2	625	0 - 0.5	0.021	11.57	0.02	0.24
RAA9-K12E	532	1,337	0 - 0.5	0.135	24.76	0.14	3.34
RAA9-K13W-SD	227	2,131	0 - 0.5	0.38	39.46	0.38	15.00
RAA9-KL10.5	381	950	0 - 0.5	3.4	17.60	3.40	59.84
RAA9-L4	186,187,553	8,944	0 - 0.5	34	165.63	34.00	5,631.30
RAA9-L5	103,385	9,768	0 - 0.5	2.69	180.88	2.69	486.57
RAA9-L6	554	9,835	0 - 0.5	3.7	182.13	3.70	673.88
RAA9-L7	290	9,996	0 - 0.5	4.4	185.12	4.40	814.52
RAA9-L8	555	10,781	0 - 0.5	0.93	199.65	0.93	185.68
RAA9-L9	386	7,870	0 - 0.5	0.08	145.74	0.08	11.66
RAA9-L9.5	557	1,980	0 - 0.5	0.25	36.67	0.25	9.17
RAA9-L11	546	4,039	0 - 0.5	0.089	74.80	0.09	6.66
RAA9-L12	382	7,784	0 - 0.5	0.0225	144.15	0.02	3.24
RAA9-L13	548	1,538	0 - 0.5	0.54	28.48	0.54	15.38
RAA9-L13N-SD	246	2,307	0 - 0.5	0.33	42.72	0.33	14.10
RAA9-LM10	248	1,789	0 - 0.5	0.87	33.13	0.87	28.83
RAA9-M4	387	3,416	0 - 0.5	1.25	63.26	1.25	79.08
RAA9-M5	559	9,607	0 - 0.5	0.63	177.90	0.63	112.08
RAA9-M6	291	9,556	0 - 0.5	11	176.96	11.00	1,946.56
RAA9-M7	560	9,992	0 - 0.5	4.5	185.03	4.50	832.64
RAA9-M8	388	8,328	0 - 0.5	0.29	154.23	0.29	44.73
RAA9-M9	561	7,144	0 - 0.5	0.035	132.30	0.04	4.63
RAA9-N5	192,192A	6,172	0 - 0.5	0.86	114.29	0.86	98.29
RAA9-N6	562,562A	6,117	0 - 0.5	1.96	113.29	1.96	222.04
RAA9-N7	389,389A	8,647	0 - 0.5	0.38	160.12	0.38	60.85
RAA9-N8	563	4,608	0 - 0.5	0.36	85.34	0.36	30.72
RAA9-NO5.5	292,292A	3,432	0 - 0.5	0.68	63.56	0.68	43.22
RAA10-W-I2	19,238	77	0 - 0.5	0.27	1.44	0.27	0.39
RAA10-W-J4	334	990	0 - 0.5	0.018	18.33	0.02	0.33
Re-routed Sewer Corridor	1,1A,1B,1C,1D,1E,1F	37,303	0 - 0.5	0.63	690.80	0.63	435.21
S2	294	273	0 - 0.5	1.3	5.05	1.30	6.57
SCH-4	188,566	1,904	0 - 0.5	0.061	35.25	0.06	2.15
SD-02	104,392	2,116	0 - 0.5	11	39.19	11.00	431.08
SD-03	189,567	880	0 - 0.5	1.8	16.30	1.80	29.34
SE-1	230	2,336	0 - 0.5	0.184	43.26	0.18	7.96
SE-2	569	1,769	0 - 0.5	1.2555	32.77	1.26	41.14
SSR-1	393	936	0 - 0.5	0.34	17.33	0.34	5.89
SSR-2	251	326	0 - 0.5	0.1	6.04	0.10	0.60
SSR-3	573	676	0 - 0.5	0.04	12.51	0.04	0.50
SSR-4	395	1,093	0 - 0.5	0.074	20.24	0.07	1.50
SSR-5	574	1	0 - 0.5	0.018	0.03	0.02	0.00
<b>Totals:</b>	--	691,302	--	--	12,801.89	--	63,571.80
<b>Volume Weighted Average:</b>							<b>4.97</b>

**TABLE B-6  
POST-REMEDATION CONDITIONS  
PARCEL K11-7-2: 0- TO 1-FOOT DEPTH INCREMENT (PAVED AND UNPAVED)**

**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**0.5- TO 1-FOOT DEPTH INCREMENT**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
78-6	17,231	1,606	0.5 - 1	0.025	29.74	0.03	0.74
AS-96-104	302	137	0.5 - 1	0.96	2.54	0.96	2.44
AS-96-105	390	1,164	0.5 - 1	0.45	21.55	0.45	9.70
AS-96-106	390A	762	0.5 - 1	0.0205	14.11	0.02	0.29
AS-96-107	211	455	0.5 - 1	0.02	8.42	0.02	0.17
AS-96-108	91,391	2,616	0.5 - 1	0.074	48.44	0.07	3.58
AS-97-127	303	241	0.5 - 1	0.1	4.46	0.10	0.45
ASB-12	92,392	2,005	0.5 - 1	0.044	37.14	0.04	1.63
ASB-22	18,232	589	0.5 - 1	11.0265	10.91	11.03	120.27
ASB-26	93,393	1,401	0.5 - 1	5.6	25.94	5.60	145.29
ASB-27	41,304	1,160	0.5 - 1	25	21.48	25.00	537.00
ASB-28	394	390	0.5 - 1	87	7.23	87.00	628.73
B4	395	544	0.5 - 1	4.4	10.07	4.40	44.31
B5	305	377	0.5 - 1	2.7	6.98	2.70	18.85
DRA-SB-1	19,233,234,235,236	1,541	0.5 - 1	0.069	28.54	0.07	1.97
DRA-SB-2	44,309,310	2,994	0.5 - 1	0.13	55.44	0.13	7.21
DRA-SB-3	95,401,402	3,298	0.5 - 1	0.05	61.08	0.05	3.05
DRA-SB-4	6,194	2,167	0.5 - 1	0.058	40.13	0.06	2.33
DRA-SB-5	96,403	2,944	0.5 - 1	1.4	54.52	1.40	76.32
DRA-SB-6	45,311	3,365	0.5 - 1	0.2	62.32	0.20	12.46
DRA-SB-7	97,404	2,833	0.5 - 1	0.14	52.46	0.14	7.34
DRA-SB-8	20,238	2,862	0.5 - 1	0.38	53.01	0.38	20.14
DRA-SB-9	98,405	2,582	0.5 - 1	0.021	47.82	0.02	1.00
DRA-SB-10	94,396,397	2,427	0.5 - 1	0.042	44.94	0.04	1.89
DRA-SB-11	42,306,307	2,306	0.5 - 1	0.033	42.70	0.03	1.41
DRA-SB-12	398	232	0.5 - 1	0.042	4.29	0.04	0.18
DRA-SB-14	399	313	0.5 - 1	0.019	5.80	0.02	0.11
DRA-SB-15	43,308	1,697	0.5 - 1	0.0195	31.43	0.02	0.61
DRA-SB-17	237	7	0.5 - 1	0.068	0.13	0.07	0.01
DRA-SB-18	400	740	0.5 - 1	0.088	13.71	0.09	1.21
H78B-13	313	4,472	0.5 - 1	13	82.81	13.00	1,076.51
H78B-19	99	125	0.5 - 1	0.077	2.32	0.08	0.18
H78B-21	21,239,240	5,034	0.5 - 1	0.019	93.22	0.02	1.77
H78B-24	46,314	773	0.5 - 1	0.81	14.32	0.81	11.60
H78B-25	100,101,408	2,621	0.5 - 1	8.3	48.54	8.30	402.86
H78B-27	199	4,995	0.5 - 1	0.021	92.50	0.02	1.94
H78B-30	47,48,49,50,315	4,278	0.5 - 1	0.021	79.22	0.02	1.66
H78B-31	103,411	4,343	0.5 - 1	2.5	80.43	2.50	201.08
H78SS-5	413	335	0.5 - 1	0.39	6.21	0.39	2.42
H78SS-6	214	271	0.5 - 1	0.021	5.01	0.02	0.11
H78SS-7	415	6	0.5 - 1	1.1	0.11	1.10	0.12
H78SS-8	317	229	0.5 - 1	0.37	4.23	0.37	1.57
K23	416	377	0.5 - 1	1	6.98	1.00	6.98
K24	242	87	0.5 - 1	3.4	1.61	3.40	5.48
K25	417	4	0.5 - 1	1	0.08	1.00	0.08
OPCA-1	215	173	0.5 - 1	0.0215	3.20	0.02	0.07
OPCA-5	319	1,265	0.5 - 1	22	23.42	22.00	515.18
OPCA-6	425	6,809	0.5 - 1	0.077	126.09	0.08	9.71
OPCA-7	245	368	0.5 - 1	0.78	6.82	0.78	5.32
OPCA-Pipeline-1	426	4,194	0.5 - 1	0.016	77.67	0.02	1.24
OPCA-Pipeline-2	200	2,684	0.5 - 1	0.015	49.71	0.02	0.75
OPCA-SB-1	427	1,994	0.5 - 1	1.1	36.93	1.10	40.63
OPCA-SB-2	216,217	1,710	0.5 - 1	0.16	31.66	0.16	5.07
OPCA-SB-4	246,247	947	0.5 - 1	0.93	17.54	0.93	16.32
OPCA-SB-7	436,437	2,936	0.5 - 1	30	54.38	30.00	1,631.38
OPCA-SB-11	51,52,53,320	3,045	0.5 - 1	0.615	56.39	0.62	34.68
OPCA-SB-13	106,107,428	1,686	0.5 - 1	0.0091	31.22	0.01	0.28
OPCA-SB-14	22,23	1,753	0.5 - 1	1.7	32.47	1.70	55.19
OPCA-SB-16	108,109,429	1,277	0.5 - 1	6.2	23.64	6.20	146.58

**TABLE B-6  
POST-REMEDATION CONDITIONS  
PARCEL K11-7-2: 0- TO 1-FOOT DEPTH INCREMENT (PAVED AND UNPAVED)**

**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**0.5- TO 1-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
OPCA-SB-17	54,321	1,318	0.5 - 1	0.021	24.41	0.02	0.51
OPCA-SB-18	110,111,430,431	1,957	0.5 - 1	0.044	36.24	0.04	1.59
OPCA-SB-20	112,432,433	1,446	0.5 - 1	0.014	26.78	0.01	0.37
OPCA-SB-21	55,322,323	1,587	0.5 - 1	0.0295	29.39	0.03	0.87
OPCA-SB-22	434	400	0.5 - 1	0.26	7.40	0.26	1.92
PS-W-3	121,450	3,755	0.5 - 1	2.8	69.54	2.80	194.71
PS-W-5	62,333	3,655	0.5 - 1	20	67.69	20.00	1,353.88
PS-W-7	454	3,352	0.5 - 1	1.63	62.08	1.63	101.18
PS-W-9	252	2,789	0.5 - 1	0.65	51.64	0.65	33.57
PS-W-11	440,441	1,651	0.5 - 1	2.36	30.58	2.36	72.17
PS-W-13	248,249	1,201	0.5 - 1	8.6	22.24	8.60	191.23
PS-W-15	442,443	1,692	0.5 - 1	21.8	31.34	21.80	683.25
PS-W-17	57,58,328,329	3,343	0.5 - 1	8.4	61.91	8.40	520.09
PS-W-18	113,114,444	2,550	0.5 - 1	4.7	47.22	4.70	221.93
PS-W-22	10,11,218,219	3,083	0.5 - 1	28.6	57.10	28.60	1,633.08
PS-W-24	115,116,445,446	2,546	0.5 - 1	96	47.16	96.00	4,527.02
PS-W-25	59,60,330,331	3,493	0.5 - 1	70.6	64.69	70.60	4,567.00
PS-W-26	117,118,447,448	5,035	0.5 - 1	38	93.23	38.00	3,542.80
PS-W-27	25,26,250,251	3,436	0.5 - 1	31	63.62	31.00	1,972.35
PS-W-30	61,332	2,248	0.5 - 1	37.2	41.63	37.20	1,548.50
PS-W-34	122,451,452	5,515	0.5 - 1	15.8	102.12	15.80	1,613.52
PS-W-38	7,201,202	7,171	0.5 - 1	1.95	132.80	1.95	258.96
PS-W-42	123,124,453	4,860	0.5 - 1	5.9	89.99	5.90	530.96
RAA9-1	459	882	0.5 - 1	0.59	16.32	0.59	9.63
RAA9-A13	127,460,461	4,592	0.5 - 1	0.028	85.03	0.03	2.38
RAA9-A13N	334	905	0.5 - 1	0.073	16.75	0.07	1.22
RAA9-A14	128,462,463	7,252	0.5 - 1	0.01	134.29	0.01	1.34
RAA9-B11	5,192	2,004	0.5 - 1	0.047	37.10	0.05	1.74
RAA9-B12	129,464	1,107	0.5 - 1	0.03	20.49	0.03	0.61
RAA9-B18	335	4,626	0.5 - 1	0.041	85.67	0.04	3.51
RAA9-C9	30,256	1,937	0.5 - 1	0.055	35.87	0.06	1.97
RAA9-D7	130,465	790	0.5 - 1	0.056	14.63	0.06	0.82
RAA9-D9	336	1,448	0.5 - 1	0.78	26.81	0.78	20.92
RAA9-E5	131,466,467	5,415	0.5 - 1	0.026	100.28	0.03	2.61
RAA9-E6	12,220,221	7,984	0.5 - 1	0.01675	147.86	0.02	2.48
RAA9-E7	132,468,469	1,642	0.5 - 1	0.68	30.41	0.68	20.68
RAA9-F3	65,342,343	5,966	0.5 - 1	0.181	110.49	0.18	20.00
RAA9-F4	138,476,477	8,736	0.5 - 1	0.017	161.78	0.02	2.75
RAA9-F5	8,203,204	9,088	0.5 - 1	0.04	168.29	0.04	6.73
RAA9-F6	139,478	7,761	0.5 - 1	0.75	143.72	0.75	107.79
RAA9-F7	66,344	698	0.5 - 1	0.47	12.93	0.47	6.08
RAA9-G2S	67,345,346	11,346	0.5 - 1	0.029	210.11	0.03	6.09
RAA9-G3	147,483,484	10,174	0.5 - 1	0.125	188.41	0.13	23.55
RAA9-G4	222	8,479	0.5 - 1	0.0195	157.01	0.02	3.06
RAA9-G5	148,149,150,151,485	9,770	0.5 - 1	0.049	180.92	0.05	8.87
RAA9-G7	68,69	1,312	0.5 - 1	28	24.29	28.00	680.16
RAA9-H2	196	6,921	0.5 - 1	0.041	128.16	0.04	5.25
RAA9-H3	278	9,564	0.5 - 1	0.041	177.11	0.04	7.26
RAA9-H4	497	9,992	0.5 - 1	0.025	185.03	0.03	4.63
RAA9-H5	72,73,351,352	9,200	0.5 - 1	0.112	170.37	0.11	19.08
RAA9-H6	159,160,161,162,498,499	6,072	0.5 - 1	0.37	112.45	0.37	41.61
RAA9-H7	13,14,223	5,543	0.5 - 1	0.018	102.64	0.02	1.85
RAA9-I2	357	4,062	0.5 - 1	1.02	75.23	1.02	76.73
RAA9-I3	510	10,000	0.5 - 1	12.5	185.19	12.50	2,314.81
RAA9-I4	283	10,301	0.5 - 1	0.199	190.75	0.20	37.96
RAA9-I5	171,511	7,877	0.5 - 1	16.5	145.88	16.50	2,406.94
RAA9-I6	83,84,85,359	9,105	0.5 - 1	0.62	168.62	0.62	104.54
RAA9-J3	287	7,343	0.5 - 1	6.2	135.99	6.20	843.13
RAA9-J4	176,522	8,183	0.5 - 1	2.88	151.53	2.88	436.41

**TABLE B-6  
POST-REMEDATION CONDITIONS  
PARCEL K11-7-2: 0- TO 1-FOOT DEPTH INCREMENT (PAVED AND UNPAVED)**

**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**0.5- TO 1-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA9-J5	88,365,366	4,193	0.5 - 1	0.165	77.64	0.17	12.81
RAA9-J8	523	7,757	0.5 - 1	0.56	143.65	0.56	80.44
RAA9-J9	226	8,659	0.5 - 1	0.021	160.36	0.02	3.37
RAA9-J10*	3	5,542	0.5 - 1	0.021	102.63	0.02	2.16
RAA9-J11	224,225	2,623	0.5 - 1	0.208	48.58	0.21	10.11
RAA9-J12	512	4,346	0.5 - 1	0.266	80.47	0.27	21.41
RAA9-J13	361	1,925	0.5 - 1	2.48	35.64	2.48	88.39
RAA9-K3	180,530	2,797	0.5 - 1	7.3	51.80	7.30	378.14
RAA9-K5	89,370	7,983	0.5 - 1	39	147.83	39.00	5,765.49
RAA9-K6	181,182,531,532	8,459	0.5 - 1	33	156.65	33.00	5,169.42
RAA9-K7	15,16,227	9,890	0.5 - 1	10.9	183.14	10.90	1,996.26
RAA9-K8	183,184,533	8,914	0.5 - 1	7.8	165.07	7.80	1,287.53
RAA9-K9	372	4,552	0.5 - 1	0.159	84.30	0.16	13.40
RAA9-K9.5	535	3,224	0.5 - 1	0.6	59.70	0.60	35.82
RAA9-K11	524	7,995	0.5 - 1	0.225	148.06	0.23	33.31
RAA9-K12	367	5,399	0.5 - 1	0.93	99.97	0.93	92.97
RAA9-K12*	2	625	0.5 - 1	0.021	11.57	0.02	0.24
RAA9-K12E	525	1,756	0.5 - 1	0.135	32.51	0.14	4.39
RAA9-KL10.5	291	950	0.5 - 1	3.4	17.60	3.40	59.84
RAA9-L4	185,186,544	8,944	0.5 - 1	34	165.63	34.00	5,631.30
RAA9-L5	90,376	9,768	0.5 - 1	2.69	180.88	2.69	486.57
RAA9-L6	545	9,835	0.5 - 1	3.7	182.13	3.70	673.88
RAA9-L7	293	9,996	0.5 - 1	4.4	185.12	4.40	814.52
RAA9-L8	546	10,781	0.5 - 1	0.93	199.65	0.93	185.68
RAA9-L9	377	7,870	0.5 - 1	0.08	145.74	0.08	11.66
RAA9-L9.5	548	1,980	0.5 - 1	0.25	36.67	0.25	9.17
RAA9-L11	538	4,039	0.5 - 1	0.089	74.80	0.09	6.66
RAA9-L12	197	7,894	0.5 - 1	0.0225	146.18	0.02	3.29
RAA9-L13	540	2,568	0.5 - 1	0.54	47.55	0.54	25.68
RAA9-LM10	209	1,789	0.5 - 1	0.87	33.13	0.87	28.83
RAA9-M4	378	3,416	0.5 - 1	1.25	63.26	1.25	79.08
RAA9-M5	550	9,607	0.5 - 1	0.63	177.90	0.63	112.08
RAA9-M6	294	9,556	0.5 - 1	11	176.96	11.00	1,946.56
RAA9-M7	551	9,992	0.5 - 1	4.5	185.03	4.50	832.64
RAA9-M8	379	8,328	0.5 - 1	0.29	154.23	0.29	44.73
RAA9-M9	552	7,144	0.5 - 1	0.035	132.30	0.04	4.63
RAA9-N5	229,229A	6,172	0.5 - 1	0.86	114.29	0.86	98.29
RAA9-N6	553,553A	6,117	0.5 - 1	1.96	113.29	1.96	222.04
RAA9-N7	380,380A	8,647	0.5 - 1	0.38	160.12	0.38	60.85
RAA9-N8	554	4,608	0.5 - 1	0.36	85.34	0.36	30.72
RAA9-NO5.5	295,295A	3,432	0.5 - 1	0.68	63.56	0.68	43.22
RAA10-W-I2	125,455	77	0.5 - 1	0.27	1.44	0.27	0.39
RAA10-W-J4	456	990	0.5 - 1	0.018	18.33	0.02	0.33
Re-routed Sewer Corridor	1,1A,1B,1C,1D,1E,1F	37,303	0.5 - 1	0.63	690.80	0.63	435.21
S2	297	584	0.5 - 0.9	1.3	8.65	1.30	11.25
SCH-4	187,557	2,407	0.5 - 1	0.018	44.57	0.02	0.80
SE-1	384	2,459	0.5 - 1	0.356125	45.53	0.36	16.22
SE-2	559	3,672	0.5 - 1	1.2555	68.00	1.26	85.37
SSR-1	230	936	0.5 - 1	0.34	17.33	0.34	5.89
SSR-2	386	326	0.5 - 1	0.1	6.04	0.10	0.60
SSR-3	563	676	0.5 - 1	0.04	12.51	0.04	0.50
SSR-4	210	1,093	0.5 - 1	0.074	20.24	0.07	1.50
SSR-5	564	1	0.5 - 1	0.018	0.03	0.02	0.00
<b>Totals:</b>	--	691,302	--	--	12,799.73	--	63,599.77
<b>Volume Weighted Average:</b>							<b>4.97</b>

**TABLE B-6  
POST-REMEDATION CONDITIONS  
PARCEL K11-7-2: 0- TO 1-FOOT DEPTH INCREMENT (PAVED AND UNPAVED)**

**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**SUMMARY - 0- TO 1-FOOT DEPTH INCREMENT (PAVED AND UNPAVED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
<b>Totals:</b>	--	691,302	--	--	25,601.63	--	127,171.57
<b>Volume Weighted Average:</b>							<b>4.97</b>

**Notes:**

1. Non-detectable PCBs included as one-half the detection limit in calculations and shown in bold.
2. For instances where a duplicate sample was available, the average of the samples was included in table.
3. All calculations and rounding are performed by the computer software. Therefore, certain quantities in above table are displayed as rounded numbers for table clarity.
4. \* = Areas where soil was removed from the 0- to 1-foot increment as proposed in a document titled "Addendum to Supplemental Sampling and Engineering Design Report for Re-routing of Sanitary and Storm Sewer Pipelines" dated October 5, 2007.
5. Following the installation of the re-routed portions of the sanitary and storm sewer utility corridor, excavated soils (except surface soils associated with sample location RAA9-J10 which were removed and disposed of off-site) were used as backfill. The PCB concentration shown above for "Re-routed Sewer Corridor" represents the average PCB concentration of the excavated soils used as backfill, as presented in a document titled "Supplemental Sampling and Engineering Design Report for Re-routing of Sanitary and Storm Sewer Pipelines" dated July 2007 and approved by EPA on September 11, 2007.
6. Shaded numbers in bold and italics represent the placement of clean backfill material following the performance of removal. The backfill concentration corresponds to the average PCB concentration as presented in the CD Sites Backfill Data Set.

**TABLE B-7**  
**POST-REMEDIATION CONDITIONS**  
**PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT**  
**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**SUMMARY - 0- TO 1-FOOT DEPTH INCREMENT (TABLE B-6)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
<b>Totals:</b>	--	691,302	--	--	25,601.63	--	127,171.57
<b>Volume Weighted Average:</b>							<b>4.97</b>

**SUMMARY - 1- TO 6-FOOT DEPTH INCREMENT (TABLE B-3)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
<b>Totals:</b>	--	691,302	--	--	127,935.65	--	798,645.48
<b>Volume Weighted Average:</b>							<b>6.24</b>

**6- TO 7-FOOT DEPTH INCREMENT**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
78-6	30	4,013	6 - 7	0.025	148.62	0.03	3.72
ASB-26	61	2,689	6 - 7	0.22	99.59	0.22	21.91
ASB-27	124	2,319	6 - 7	3.605	85.88	3.61	309.61
ASB-28	14	1,254	6 - 7	0.27	46.45	0.27	12.54
DRA-SB-1	125,126	1,453	6 - 7	0.85	53.80	0.85	45.73
DRA-SB-2	31	4,565	6 - 7	0.12	169.06	0.12	20.29
DRA-SB-17	62	7	6 - 7	0.018	0.26	0.02	0.00
DRA-SB-18	127	295	6 - 7	0.021	10.92	0.02	0.23
H78B-13	128	7,733	6 - 7	6.5	286.40	6.50	1,861.63
H78B-19	64	643	6 - 7	0.44	23.82	0.44	10.48
H78B-21	130	6,075	6 - 7	0.59	225.00	0.59	132.75
H78B-24	131	773	6 - 7	0.038	28.64	0.04	1.09
H78B-25	65	2,199	6 - 7	0.069	81.43	0.07	5.62
H78B-27	133	4,481	6 - 7	0.017	165.94	0.02	2.82
H78B-30	134	4,242	6 - 7	0.074	157.11	0.07	11.63
H78B-31	66	4,343	6 - 7	0.29	160.86	0.29	46.65
OPCA-1	135	1,879	6 - 7	0.045	69.61	0.05	3.13
OPCA-5	136	1,236	6 - 7	0.022	45.78	0.02	1.01
OPCA-6	67	6,809	6 - 7	0.018	252.17	0.02	4.54
OPCA-7	138	368	6 - 7	0.019	13.63	0.02	0.26
OPCA-SB-1	68	2,446	6 - 7	0.0165	90.58	0.02	1.49
OPCA-SB-2	71,72	1,710	6 - 7	0.017	63.32	0.02	1.08
OPCA-SB-4	73,74	584	6 - 7	0.017	21.62	0.02	0.37
OPCA-SB-5	150	1,029	6 - 7	0.0185	38.10	0.02	0.70
OPCA-SB-6	9	424	6 - 7	0.017	15.72	0.02	0.27
OPCA-SB-7	151,152	2,219	6 - 7	0.018	82.20	0.02	1.48
OPCA-SB-8	75,76	1,928	6 - 7	0.018	71.40	0.02	1.29
OPCA-SB-9	153,154	919	6 - 7	0.018	34.04	0.02	0.61
OPCA-SB-10	139,140	705	6 - 7	0.0175	26.13	0.02	0.46
OPCA-SB-11	33	2,628	6 - 7	0.017	97.33	0.02	1.65
OPCA-SB-13	141,142	1,686	6 - 7	0.0165	62.43	0.02	1.03
OPCA-SB-14	69,70	1,753	6 - 7	0.0175	64.93	0.02	1.14
OPCA-SB-16	143,144	1,277	6 - 7	0.0175	47.28	0.02	0.83
OPCA-SB-17	16,17	1,318	6 - 7	0.0185	48.81	0.02	0.90
OPCA-SB-18	145,146	1,957	6 - 7	0.016	72.49	0.02	1.16
OPCA-SB-20	147	2,947	6 - 7	0.0093	109.13	0.01	1.01
OPCA-SB-21	34	2,126	6 - 7	0.0175	78.73	0.02	1.38
OPCA-SB-22	148	400	6 - 7	0.017	14.80	0.02	0.25
PS-W-3	163	3,189	6 - 7	0.08	118.12	0.08	9.45
PS-W-5	19	2,669	6 - 7	0.07	98.86	0.07	6.92
PS-W-7	166	3,214	6 - 7	0.025	119.02	0.03	2.98
PS-W-9	82	2,511	6 - 7	0.2	93.01	0.20	18.60
PS-W-11	157	1,570	6 - 7	0.35	58.16	0.35	20.36



**TABLE B-7**  
**POST-REMEDATION CONDITIONS**  
**PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT**  
**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**6- TO 7-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
PS-W-13	78	1,117	6 - 7	0.61	41.38	0.61	25.24
PS-W-15	158	708	6 - 7	5.5	26.22	5.50	144.20
PS-W-17	36,37	1,649	6 - 7	<b>0.025</b>	61.08	0.03	1.53
PS-W-18	159	2,144	6 - 7	<b>0.025</b>	79.40	0.03	1.98
PS-W-22	79	3,303	6 - 7	0.38	122.32	0.38	46.48
PS-W-24	160	2,307	6 - 7	1.07	85.46	1.07	91.44
PS-W-25	3	2,341	6 - 7	39	86.70	39.00	3,381.17
PS-W-26	161	3,765	6 - 7	53	139.44	53.00	7,390.39
PS-W-27	80	1,897	6 - 7	21.8	70.27	21.80	1,531.88
PS-W-30	38	2,248	6 - 7	38.1	83.25	38.10	3,171.94
PS-W-34	164	5,504	6 - 7	2.02	203.83	2.02	411.74
PS-W-38	81	3,790	6 - 7	0.2	140.36	0.20	28.07
PS-W-42	165	5,374	6 - 7	0.11	199.05	0.11	21.90
RAA9-1	171	853	6 - 7	180	31.58	180.00	5,683.55
RAA9-A13	172	4,903	6 - 7	40	181.61	40.00	7,264.33
RAA9-A13N	39	1,521	6 - 7	0.016	56.35	0.02	0.90
RAA9-A14	173	9,270	6 - 7	0.59	343.33	0.59	202.56
RAA9-B11	84	3,785	6 - 7	2.9	140.19	2.90	406.54
RAA9-B12	174	4,200	6 - 7	0.11	155.57	0.11	17.11
RAA9-B18	20	4,626	6 - 7	<b>0.0185</b>	171.33	0.02	3.17
RAA9-C9	40	4,408	6 - 7	0.71	163.25	0.71	115.91
RAA9-C10	175	6,647	6 - 7	<b>0.0192</b>	246.18	0.02	4.73
RAA9-C16	176	474	6 - 7	<b>0.019</b>	17.55	0.02	0.33
RAA9-D7	177	1,365	6 - 7	<b>0.0175</b>	50.57	0.02	0.89
RAA9-D8	85	756	6 - 7	0.23	28.01	0.23	6.44
RAA9-D9	178	4,658	6 - 7	<b>0.0195</b>	172.53	0.02	3.36
RAA9-E5	5	5,415	6 - 7	<b>0.017</b>	200.56	0.02	3.41
RAA9-E6	179	8,329	6 - 7	<b>0.0175</b>	308.49	0.02	5.40
RAA9-E7	86,87	2,018	6 - 7	<b>0.017</b>	74.76	0.02	1.27
RAA9-F3	182	5,942	6 - 7	<b>0.018</b>	220.08	0.02	3.96
RAA9-F4	21	8,736	6 - 7	<b>0.018</b>	323.56	0.02	5.82
RAA9-F5	183	9,088	6 - 7	0.2	336.58	0.20	67.32
RAA9-F6	89	7,761	6 - 7	<b>0.0195</b>	287.43	0.02	5.60
RAA9-F7	184	698	6 - 7	<b>0.02</b>	25.85	0.02	0.52
RAA9-G2	186	9,195	6 - 7	<b>0.0165</b>	340.54	0.02	5.62
RAA9-G3	187	9,584	6 - 7	<b>0.0195</b>	354.98	0.02	6.92
RAA9-G4	91	8,479	6 - 7	<b>0.0185</b>	314.03	0.02	5.81
RAA9-G5	188	9,770	6 - 7	<b>0.019</b>	361.84	0.02	6.87
RAA9-G7	43,44	1,312	6 - 7	<b>0.0195</b>	48.58	0.02	0.95
RAA9-H2	191	9,562	6 - 7	<b>0.0195</b>	354.17	0.02	6.91
RAA9-H3	193	9,688	6 - 7	<b>0.018</b>	358.81	0.02	6.46
RAA9-H4	94	9,992	6 - 7	<b>0.02</b>	370.07	0.02	7.40
RAA9-H5	194	9,200	6 - 7	<b>0.019</b>	340.75	0.02	6.47
RAA9-H6	2	6,072	6 - 7	<b>0.0195</b>	224.89	0.02	4.39
RAA9-H7	195,196	5,239	6 - 7	<b>0.019</b>	194.02	0.02	3.69
RAA9-I2	200	4,062	6 - 7	<b>0.0205</b>	150.45	0.02	3.08
RAA9-I3	98	10,000	6 - 7	<b>0.0195</b>	370.37	0.02	7.22
RAA9-I4	203	10,301	6 - 7	<b>0.0185</b>	381.51	0.02	7.06
RAA9-I5	11	7,877	6 - 7	<b>0.0185</b>	291.75	0.02	5.40
RAA9-I6	204	7,469	6 - 7	<b>0.0175</b>	276.65	0.02	4.84
RAA9-I7	99	5,115	6 - 7	<b>0.021</b>	189.44	0.02	3.98
RAA9-I9	205	1,032	6 - 7	0.022	38.22	0.02	0.84
RAA9-I11	95	298	6 - 7	0.167	11.05	0.17	1.85
RAA9-I12	197	1,717	6 - 7	<b>0.01825</b>	63.58	0.02	1.16
RAA9-J3	214	8,831	6 - 7	<b>0.022</b>	327.08	0.02	7.20
RAA9-J4	103	8,207	6 - 7	0.015	303.96	0.02	4.56
RAA9-J5	215	4,193	6 - 7	10	155.29	10.00	1,552.89
RAA9-J6	50	2,674	6 - 7	0.217	99.04	0.22	21.49

**TABLE B-7**  
**POST-REMEDIATION CONDITIONS**  
**PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT**  
**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**6- TO 7-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA9-J7	216	7,140	6 - 7	0.0185	264.45	0.02	4.89
RAA9-J8	104	7,328	6 - 7	0.019	271.39	0.02	5.16
RAA9-J9	217	8,632	6 - 7	0.05	319.70	0.05	15.98
RAA9-J10	48	4,899	6 - 7	0.06	181.43	0.06	10.89
RAA9-J11	206,207	2,613	6 - 7	0.019	96.79	0.02	1.84
RAA9-J12	100	4,364	6 - 7	0.02	161.64	0.02	3.23
RAA9-J13	209	2,613	6 - 7	1.45	96.79	1.45	140.35
RAA9-K4	226	5,471	6 - 7	5.479	202.64	5.48	1,110.27
RAA9-K5	108	7,491	6 - 7	1.055	277.45	1.06	292.71
RAA9-K6	227	8,312	6 - 7	0.37	307.84	0.37	113.90
RAA9-K7	27	8,691	6 - 7	0.031	321.90	0.03	9.98
RAA9-K8	228	8,881	6 - 7	0.038	328.91	0.04	12.50
RAA9-K9	110	6,041	6 - 7	0.0195	223.76	0.02	4.36
RAA9-K10	26	2,206	6 - 7	0.02	81.71	0.02	1.63
RAA9-K11	219	8,791	6 - 7	0.0195	325.60	0.02	6.35
RAA9-K12	105	8,000	6 - 7	0.0195	296.30	0.02	5.78
RAA9-K13	221	3,889	6 - 7	0.019	144.02	0.02	2.74
RAA9-L4	235	8,127	6 - 7	0.02	301.02	0.02	6.02
RAA9-L5	114	9,767	6 - 7	5	361.75	5.00	1,808.75
RAA9-L6	236	9,835	6 - 7	4.6	364.26	4.60	1,675.59
RAA9-L7	28	9,996	6 - 7	0.052	370.24	0.05	19.25
RAA9-L8	237	10,781	6 - 7	0.0195	399.31	0.02	7.79
RAA9-L9	116	9,242	6 - 7	0.019	342.29	0.02	6.50
RAA9-L10	230	1,545	6 - 7	0.019	57.23	0.02	1.09
RAA9-L11	54	4,379	6 - 7	0.0195	162.19	0.02	3.16
RAA9-L12	231	8,017	6 - 7	0.023	296.92	0.02	6.83
RAA9-L13	112	3,891	6 - 7	0.019	144.12	0.02	2.74
RAA9-LM10.5	239	234	6 - 7	0.019	8.66	0.02	0.16
RAA9-M4	56	3,318	6 - 7	0.0195	122.90	0.02	2.40
RAA9-M5	240	9,705	6 - 7	3.525	359.44	3.53	1,267.03
RAA9-M6	117	9,556	6 - 7	1.745	353.92	1.75	617.59
RAA9-M7	241	9,992	6 - 7	0.0195	370.06	0.02	7.22
RAA9-M8	13	8,328	6 - 7	0.019	308.45	0.02	5.86
RAA9-M9	242	7,970	6 - 7	0.02175	295.18	0.02	6.42
RAA9-N4.5	118	5,198	6 - 7	0.0195	192.53	0.02	3.75
RAA9-N6	243	7,262	6 - 7	5.1	268.96	5.10	1,371.71
RAA9-N7	57	8,647	6 - 7	0.024	320.25	0.02	7.69
RAA9-N8	244	4,608	6 - 7	0.0165	170.68	0.02	2.82
RAA10-W-I2	167	674	6 - 7	0.019	24.98	0.02	0.47
RAA10-W-J4	168	990	6 - 7	0.019	36.66	0.02	0.70
Re-routed Sewer Corridor	1	37,303	6 - 7	0.63	1,381.61	0.63	870.41
SCH-4	119	3,488	6 - 7	0.32	129.18	0.32	41.34
SSR-1	245	936	6 - 7	0.0185	34.65	0.02	0.64
SSR-2	248	326	6 - 7	0.029	12.07	0.03	0.35
SSR-3	121	676	6 - 7	0.018	25.03	0.02	0.45
SSR-4	249	1,093	6 - 7	0.018	40.49	0.02	0.73
SSR-5	7	1	6 - 7	0.0195	0.05	0.02	0.00
<b>Totals:</b>	--	691,302	--	--	25,603.79	--	43,793.21
<b>Volume Weighted Average:</b>						--	1.71

**7- TO 8-FOOT DEPTH INCREMENT**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
78-6	36	4,013	7 - 8	0.025	148.62	0.03	3.72
ASB-26	69	3,022	7 - 8	0.22	111.91	0.22	24.62
ASB-27	132	2,319	7 - 8	3.605	85.88	3.61	309.61

**TABLE B-7**  
**POST-REMEDATION CONDITIONS**  
**PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT**  
**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**7- TO 8-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
ASB-28	19	1,254	7 - 8	0.27	46.45	0.27	12.54
DRA-SB-17	133	15	7 - 8	<b>0.019</b>	0.55	0.02	0.01
H78B-13	70	7,733	7 - 8	6.5	286.40	6.50	1,861.63
H78B-19	136	643	7 - 8	0.44	23.82	0.44	10.48
H78B-21	11	6,075	7 - 8	0.59	225.00	0.59	132.75
H78B-24	71	773	7 - 8	<b>0.038</b>	28.64	0.04	1.09
H78B-25	137	2,199	7 - 8	0.069	81.43	0.07	5.62
H78B-27	39	4,481	7 - 8	0.017	165.94	0.02	2.82
H78B-30	72	4,242	7 - 8	0.074	157.11	0.07	11.63
H78B-31	139	4,343	7 - 8	0.29	160.86	0.29	46.65
OPCA-1	20	1,879	7 - 8	0.045	69.61	0.05	3.13
OPCA-5	73	1,236	7 - 8	0.022	45.78	0.02	1.01
OPCA-6	141	6,809	7 - 8	<b>0.018</b>	252.17	0.02	4.54
OPCA-7	41	368	7 - 8	<b>0.019</b>	13.63	0.02	0.26
OPCA-SB-1	142	2,446	7 - 8	<b>0.0165</b>	90.58	0.02	1.49
OPCA-SB-2	148,149	1,710	7 - 8	<b>0.017</b>	63.32	0.02	1.08
OPCA-SB-4	151,152	584	7 - 8	<b>0.017</b>	21.62	0.02	0.37
OPCA-SB-5	44	1,029	7 - 8	<b>0.0185</b>	38.10	0.02	0.70
OPCA-SB-6	153	424	7 - 8	<b>0.017</b>	15.72	0.02	0.27
OPCA-SB-7	80,81	2,219	7 - 8	<b>0.018</b>	82.20	0.02	1.48
OPCA-SB-8	154,155	1,928	7 - 8	<b>0.018</b>	71.40	0.02	1.29
OPCA-SB-9	12,13	919	7 - 8	<b>0.018</b>	34.04	0.02	0.61
OPCA-SB-10	6,7	705	7 - 8	<b>0.0175</b>	26.13	0.02	0.46
OPCA-SB-11	143	2,628	7 - 8	<b>0.017</b>	97.33	0.02	1.65
OPCA-SB-13	74,75	1,686	7 - 8	<b>0.0165</b>	62.43	0.02	1.03
OPCA-SB-14	144,145	1,753	7 - 8	<b>0.0175</b>	64.93	0.02	1.14
OPCA-SB-16	42,43	1,277	7 - 8	<b>0.0175</b>	47.28	0.02	0.83
OPCA-SB-17	146,147	1,318	7 - 8	<b>0.0185</b>	48.81	0.02	0.90
OPCA-SB-18	76,77	1,957	7 - 8	<b>0.016</b>	72.49	0.02	1.16
OPCA-SB-20	21	2,947	7 - 8	0.0093	109.13	0.01	1.01
OPCA-SB-21	150	2,528	7 - 8	<b>0.0175</b>	93.63	0.02	1.64
OPCA-SB-22	78	419	7 - 8	<b>0.017</b>	15.52	0.02	0.26
PS-W-3	4	3,189	7 - 8	0.08	118.12	0.08	9.45
PS-W-5	167	2,669	7 - 8	0.07	98.86	0.07	6.92
PS-W-7	87	3,214	7 - 8	<b>0.025</b>	119.02	0.03	2.98
PS-W-9	168	2,511	7 - 8	0.2	93.01	0.20	18.60
PS-W-11	83	1,570	7 - 8	0.35	58.16	0.35	20.36
PS-W-13	159	1,117	7 - 8	0.61	41.38	0.61	25.24
PS-W-15	22	708	7 - 8	5.5	26.22	5.50	144.20
PS-W-17	160,161	1,649	7 - 8	<b>0.025</b>	61.08	0.03	1.53
PS-W-18	84	2,144	7 - 8	<b>0.025</b>	79.40	0.03	1.98
PS-W-22	162	3,303	7 - 8	0.38	122.32	0.38	46.48
PS-W-24	46	2,307	7 - 8	1.07	85.46	1.07	91.44
PS-W-25	163	2,341	7 - 8	39	86.70	39.00	3,381.17
PS-W-26	85	3,765	7 - 8	53	139.44	53.00	7,390.39
PS-W-27	164	1,897	7 - 8	21.8	70.27	21.80	1,531.88
PS-W-30	165	2,248	7 - 8	38.1	83.25	38.10	3,171.94
PS-W-34	86	5,504	7 - 8	2.02	203.83	2.02	411.74
PS-W-38	166	3,790	7 - 8	0.2	140.36	0.20	28.07
PS-W-42	47	5,374	7 - 8	0.11	199.05	0.11	21.90
RAA9-1	90	853	7 - 8	180	31.58	180.00	5,683.55
RAA9-A13	14	4,903	7 - 8	40	181.61	40.00	7,264.33
RAA9-A13N	170	1,521	7 - 8	0.016	56.35	0.02	0.90
RAA9-A14	91	9,270	7 - 8	0.59	343.33	0.59	202.56
RAA9-B11	171	3,785	7 - 8	2.9	140.19	2.90	406.54
RAA9-B12	49	4,200	7 - 8	0.11	155.57	0.11	17.11
RAA9-B18	172	4,626	7 - 8	<b>0.0185</b>	171.33	0.02	3.17
RAA9-C9	173	4,408	7 - 8	0.71	163.25	0.71	115.91

**TABLE B-7**  
**POST-REMEDATION CONDITIONS**  
**PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT**  
**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**7- TO 8-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA9-C10	92	6,647	7 - 8	0.0192	246.18	0.02	4.73
RAA9-C16	24	761	7 - 8	0.019	28.19	0.02	0.54
RAA9-D7	93	1,365	7 - 8	0.0175	50.57	0.02	0.89
RAA9-D8	174	5,713	7 - 8	0.23	211.58	0.23	48.66
RAA9-D9	50	4,965	7 - 8	0.0195	183.87	0.02	3.59
RAA9-E5	175	5,415	7 - 8	0.017	200.56	0.02	3.41
RAA9-E6	94	8,329	7 - 8	0.0175	308.49	0.02	5.40
RAA9-E7	176,177	2,018	7 - 8	0.017	74.76	0.02	1.27
RAA9-F3	51	5,942	7 - 8	0.018	220.08	0.02	3.96
RAA9-F4	180	8,736	7 - 8	0.018	323.56	0.02	5.82
RAA9-F5	96	9,088	7 - 8	0.2	336.58	0.20	67.32
RAA9-F6	181	7,761	7 - 8	0.0195	287.43	0.02	5.60
RAA9-F7	25	698	7 - 8	0.02	25.85	0.02	0.52
RAA9-G2	52	9,195	7 - 8	0.0165	340.54	0.02	5.62
RAA9-G3	98	9,584	7 - 8	0.0195	354.98	0.02	6.92
RAA9-G4	185	8,479	7 - 8	0.0185	314.03	0.02	5.81
RAA9-G5	15	9,770	7 - 8	0.019	361.84	0.02	6.87
RAA9-G7	186,187	1,312	7 - 8	0.0195	48.58	0.02	0.95
RAA9-H2	100	9,562	7 - 8	0.0195	354.17	0.02	6.91
RAA9-H3	101	9,688	7 - 8	0.018	358.81	0.02	6.46
RAA9-H4	192	9,992	7 - 8	0.02	370.07	0.02	7.40
RAA9-H5	54	9,200	7 - 8	0.019	340.75	0.02	6.47
RAA9-H6	193	6,072	7 - 8	0.0195	224.89	0.02	4.39
RAA9-H7	102,103	5,239	7 - 8	0.019	194.02	0.02	3.69
RAA9-I2	105	4,062	7 - 8	0.0205	150.45	0.02	3.08
RAA9-I3	200	10,000	7 - 8	0.0195	370.37	0.02	7.22
RAA9-I4	56	10,301	7 - 8	0.0185	381.51	0.02	7.06
RAA9-I5	201	7,877	7 - 8	0.0185	291.75	0.02	5.40
RAA9-I6	107	7,469	7 - 8	0.0175	276.65	0.02	4.84
RAA9-I7	202	5,115	7 - 8	0.021	189.44	0.02	3.98
RAA9-I9	16	1,032	7 - 8	0.022	38.22	0.02	0.84
RAA9-I11	194	298	7 - 8	0.167	11.05	0.17	1.85
RAA9-I12	2	1,717	7 - 8	0.01825	63.58	0.02	1.16
RAA9-J3	112	8,831	7 - 8	0.022	327.08	0.02	7.20
RAA9-J4	210	8,207	7 - 8	0.015	303.96	0.02	4.56
RAA9-J5	9	4,193	7 - 8	10	155.29	10.00	1,552.89
RAA9-J6	211	2,674	7 - 8	0.217	99.04	0.22	21.49
RAA9-J7	113	7,140	7 - 8	0.0185	264.45	0.02	4.89
RAA9-J8	212	7,328	7 - 8	0.019	271.39	0.02	5.16
RAA9-J9	60	8,632	7 - 8	0.05	319.70	0.05	15.98
RAA9-J10	203	4,899	7 - 8	0.06	181.43	0.06	10.89
RAA9-J11	108,109	2,613	7 - 8	0.019	96.79	0.02	1.84
RAA9-J12	204	4,364	7 - 8	0.02	161.64	0.02	3.23
RAA9-J13	58	2,613	7 - 8	1.45	96.79	1.45	140.35
RAA9-K4	118	5,471	7 - 8	5.479	202.64	5.48	1,110.27
RAA9-K5	221	7,491	7 - 8	1.055	277.45	1.06	292.71
RAA9-K6	62	8,312	7 - 8	0.37	307.84	0.37	113.90
RAA9-K7	222	8,691	7 - 8	0.031	321.90	0.03	9.98
RAA9-K8	119	8,881	7 - 8	0.038	328.91	0.04	12.50
RAA9-K9	224	6,041	7 - 8	0.0195	223.76	0.02	4.36
RAA9-K10	214	2,206	7 - 8	0.02	81.71	0.02	1.63
RAA9-K11	115	8,791	7 - 8	0.0195	325.60	0.02	6.35
RAA9-K12	215	8,000	7 - 8	0.0195	296.30	0.02	5.78
RAA9-K13	30	3,889	7 - 8	0.019	144.02	0.02	2.74
RAA9-L4	122	8,127	7 - 8	0.02	301.02	0.02	6.02
RAA9-L5	232	9,767	7 - 8	5	361.75	5.00	1,808.75
RAA9-L6	64	9,835	7 - 8	4.6	364.26	4.60	1,675.59
RAA9-L7	233	9,996	7 - 8	0.052	370.24	0.05	19.25

**TABLE B-7  
POST-REMEDATION CONDITIONS  
PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT  
FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**7- TO 8-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA9-L8	123	10,781	7 - 8	0.0195	399.31	0.02	7.79
RAA9-L9	235	9,242	7 - 8	0.019	342.29	0.02	6.50
RAA9-L10	32	1,545	7 - 8	0.019	57.23	0.02	1.09
RAA9-L11	226	4,379	7 - 8	0.0195	162.19	0.02	3.16
RAA9-L12	120	8,017	7 - 8	0.023	296.92	0.02	6.83
RAA9-L13	228	3,891	7 - 8	0.019	144.12	0.02	2.74
RAA9-LM10.5	34	234	7 - 8	0.019	8.66	0.02	0.16
RAA9-M4	236	3,318	7 - 8	0.0195	122.90	0.02	2.40
RAA9-M5	124	9,705	7 - 8	3.525	359.44	3.53	1,267.03
RAA9-M6	237	9,556	7 - 8	1.745	353.92	1.75	617.59
RAA9-M7	65	9,992	7 - 8	0.0195	370.06	0.02	7.22
RAA9-M8	238	8,328	7 - 8	0.019	308.45	0.02	5.86
RAA9-M9	125	7,970	7 - 8	0.02175	295.18	0.02	6.42
RAA9-N4.5	239	5,198	7 - 8	0.0195	192.53	0.02	3.75
RAA9-N6	18	7,262	7 - 8	5.1	268.96	5.10	1,371.71
RAA9-N7	240	8,647	7 - 8	0.024	320.25	0.02	7.69
RAA9-N8	126	4,608	7 - 8	0.0165	170.68	0.02	2.82
RAA10-W-I2	23	674	7 - 8	0.019	24.98	0.02	0.47
RAA10-W-J4	88	990	7 - 8	0.019	36.66	0.02	0.70
Re-routed Sewer Corridor	1	37,303	7 - 8	0.63	1,381.61	0.63	870.41
SCH-4	241	3,488	7 - 8	0.32	129.18	0.32	41.34
SSR-1	66	936	7 - 8	0.0185	34.65	0.02	0.64
SSR-2	128	326	7 - 8	0.029	12.07	0.03	0.35
SSR-3	245	676	7 - 8	0.018	25.03	0.02	0.45
SSR-4	67	1,093	7 - 8	0.018	40.49	0.02	0.73
SSR-5	246	1	7 - 8	0.0195	0.05	0.02	0.00
<b>Totals:</b>	--	691,302	--	--	25,603.79	--	43,772.60
<b>Volume Weighted Average:</b>							<b>1.71</b>

**8- TO 9-FOOT DEPTH INCREMENT**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
78-6	29	5,049	8 - 9	0.025	187.00	0.03	4.68
A-08	57	2,462	8 - 9	0.067	91.19	0.07	6.11
A-11	117	1,500	8 - 9	0.0195	55.56	0.02	1.08
DRA-SB-17	15	15	8 - 9	0.019	0.55	0.02	0.01
H78B-13	118	7,733	8 - 9	12	286.40	12.00	3,436.86
H78B-19	59	643	8 - 9	0.038	23.82	0.04	0.91
H78B-21	120	6,075	8 - 9	0.0385	225.00	0.04	8.66
H78B-24	121	773	8 - 9	0.037	28.64	0.04	1.06
H78B-27	61	4,481	8 - 9	0.057	165.94	0.06	9.46
H78B-30	31	5,176	8 - 9	0.17	191.72	0.17	32.59
H78B-31	123	4,489	8 - 9	0.39	166.26	0.39	64.84
OPCA-1	62	1,879	8 - 9	0.045	69.61	0.05	3.13
OPCA-5	16	1,236	8 - 9	0.022	45.78	0.02	1.01
OPCA-6	125	6,809	8 - 9	0.018	252.17	0.02	4.54
OPCA-7	64	368	8 - 9	0.019	13.63	0.02	0.26
OPCA-SB-4	135,136	1,567	8 - 9	0.017	58.05	0.02	0.99
OPCA-SB-5	17,18	2,146	8 - 9	0.0185	79.47	0.02	1.47
OPCA-SB-6	137,138	1,537	8 - 9	0.017	56.94	0.02	0.97
OPCA-SB-7	71,72	2,569	8 - 9	0.018	95.16	0.02	1.71
OPCA-SB-8	139,140	1,929	8 - 9	0.018	71.44	0.02	1.29
OPCA-SB-9	33,34	919	8 - 9	0.018	34.04	0.02	0.61
OPCA-SB-10	126,127	1,504	8 - 9	0.0175	55.72	0.02	0.98
OPCA-SB-11	65,66	3,931	8 - 9	0.017	145.59	0.02	2.48
OPCA-SB-13	128,129	1,770	8 - 9	0.0165	65.54	0.02	1.08

**TABLE B-7**  
**POST-REMEDATION CONDITIONS**  
**PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT**  
**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**8- TO 9-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
OPCA-SB-14	6,7	1,753	8 - 9	0.0175	64.93	0.02	1.14
OPCA-SB-16	130,131	1,277	8 - 9	0.0175	47.28	0.02	0.83
OPCA-SB-17	67,68	1,318	8 - 9	0.0185	48.81	0.02	0.90
OPCA-SB-18	132,133	1,957	8 - 9	0.016	72.49	0.02	1.16
OPCA-SB-20	32	2,947	8 - 9	0.0093	109.13	0.01	1.01
OPCA-SB-21	134	2,528	8 - 9	0.0175	93.63	0.02	1.64
OPCA-SB-22	69	419	8 - 9	0.017	15.52	0.02	0.26
PS-W-7	35	4,106	8 - 9	0.025	152.08	0.03	3.80
PS-W-17	143,144	1,649	8 - 9	0.025	61.08	0.03	1.53
PS-W-18	74	2,144	8 - 9	0.025	79.40	0.03	1.98
PS-W-22	145	4,637	8 - 9	0.38	171.74	0.38	65.26
RAA9-1	150	854	8 - 9	180	31.63	180.00	5,693.07
RAA9-A13	151	4,903	8 - 9	40	181.61	40.00	7,264.33
RAA9-A13N	75	1,521	8 - 9	0.016	56.35	0.02	0.90
RAA9-A14	152	9,270	8 - 9	0.59	343.33	0.59	202.56
RAA9-B11	4	3,785	8 - 9	2.9	140.19	2.90	406.54
RAA9-B12	153	4,200	8 - 9	0.11	155.57	0.11	17.11
RAA9-B18	76	4,626	8 - 9	0.0185	171.33	0.02	3.17
RAA9-C9	77	5,190	8 - 9	0.71	192.21	0.71	136.47
RAA9-C10	154	6,721	8 - 9	0.0192	248.93	0.02	4.78
RAA9-C16	155	761	8 - 9	0.019	28.19	0.02	0.54
RAA9-D7	156	1,365	8 - 9	0.0175	50.57	0.02	0.89
RAA9-D8	19	5,868	8 - 9	0.23	217.33	0.23	49.99
RAA9-D9	157	5,549	8 - 9	0.0195	205.51	0.02	4.01
RAA9-E5	78	5,415	8 - 9	0.017	200.56	0.02	3.41
RAA9-E6	158	8,329	8 - 9	0.0175	308.49	0.02	5.40
RAA9-E7	37,38	2,018	8 - 9	0.017	74.76	0.02	1.27
RAA9-F3	161	5,942	8 - 9	0.018	220.08	0.02	3.96
RAA9-F4	80	8,736	8 - 9	0.018	323.56	0.02	5.82
RAA9-F5	162	9,088	8 - 9	0.2	336.58	0.20	67.32
RAA9-F6	39	7,761	8 - 9	0.0195	287.43	0.02	5.60
RAA9-F7	163	698	8 - 9	0.02	25.85	0.02	0.52
RAA9-G2	165	9,195	8 - 9	0.0165	340.54	0.02	5.62
RAA9-G3	166	9,584	8 - 9	0.0195	354.98	0.02	6.92
RAA9-G4	40	8,479	8 - 9	0.0185	314.03	0.02	5.81
RAA9-G5	167	9,770	8 - 9	0.019	361.84	0.02	6.87
RAA9-G7	83,84	1,312	8 - 9	0.0195	48.58	0.02	0.95
RAA9-H2	170	9,562	8 - 9	0.0195	354.17	0.02	6.91
RAA9-H3	172	9,688	8 - 9	0.018	358.81	0.02	6.46
RAA9-H4	21	9,992	8 - 9	0.02	370.07	0.02	7.40
RAA9-H5	173	9,200	8 - 9	0.019	340.75	0.02	6.47
RAA9-H6	87	6,072	8 - 9	0.0195	224.89	0.02	4.39
RAA9-H7	174,175	5,251	8 - 9	0.019	194.48	0.02	3.70
RAA9-I2	180	4,062	8 - 9	0.0205	150.45	0.02	3.08
RAA9-I3	22	10,000	8 - 9	0.0195	370.37	0.02	7.22
RAA9-I4	183	10,301	8 - 9	0.0185	381.51	0.02	7.06
RAA9-I5	91	7,877	8 - 9	0.0185	291.75	0.02	5.40
RAA9-I6	184	7,761	8 - 9	0.0175	287.45	0.02	5.03
RAA9-I7	44	7,295	8 - 9	0.021	270.17	0.02	5.67
RAA9-I9	185	1,495	8 - 9	0.022	55.38	0.02	1.22
RAA9-I11	42	1,371	8 - 9	0.167	50.79	0.17	8.48
RAA9-I12	177	6,504	8 - 9	0.01825	240.89	0.02	4.40
RAA9-J3	194	10,082	8 - 9	0.022	373.40	0.02	8.21
RAA9-J4	46	10,806	8 - 9	0.015	400.22	0.02	6.00
RAA9-J5	195	7,272	8 - 9	10	269.32	10.00	2,693.22
RAA9-J6	96	7,804	8 - 9	0.217	289.02	0.22	62.72
RAA9-J7	196	8,657	8 - 9	0.0185	320.65	0.02	5.93
RAA9-J8	13	7,328	8 - 9	0.019	271.39	0.02	5.16

**TABLE B-7**  
**POST-REMEDIATION CONDITIONS**  
**PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT**  
**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**8- TO 9-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA9-J9	197	8,632	8 - 9	0.05	319.70	0.05	15.98
RAA9-J10	92	4,899	8 - 9	0.06	181.43	0.06	10.89
RAA9-J11	186,187	3,323	8 - 9	<b>0.019</b>	123.07	0.02	2.34
RAA9-J12	2,3	6,167	8 - 9	<b>0.02</b>	228.39	0.02	4.57
RAA9-J13	189	2,975	8 - 9	1.45	110.17	1.45	159.75
RAA9-K4	206	12,504	8 - 9	0.058	463.12	0.06	26.86
RAA9-K5	9	9,039	8 - 9	1.055	334.78	1.06	353.20
RAA9-K6	207	8,312	8 - 9	0.37	307.84	0.37	113.90
RAA9-K7	102	8,691	8 - 9	0.031	321.90	0.03	9.98
RAA9-K8	208	8,881	8 - 9	0.038	328.91	0.04	12.50
RAA9-K9	50	6,041	8 - 9	<b>0.0195</b>	223.76	0.02	4.36
RAA9-K10	98	2,206	8 - 9	<b>0.02</b>	81.71	0.02	1.63
RAA9-K11	199	9,493	8 - 9	<b>0.0195</b>	351.57	0.02	6.86
RAA9-K12	47	9,564	8 - 9	<b>0.0195</b>	354.21	0.02	6.91
RAA9-K13	201	3,889	8 - 9	<b>0.019</b>	144.02	0.02	2.74
RAA9-L4	215	8,311	8 - 9	<b>0.02</b>	307.83	0.02	6.16
RAA9-L5	14	9,767	8 - 9	5	361.75	5.00	1,808.75
RAA9-L6	216	9,835	8 - 9	4.6	364.26	4.60	1,675.59
RAA9-L7	107	9,996	8 - 9	0.052	370.24	0.05	19.25
RAA9-L8	217	10,781	8 - 9	<b>0.0195</b>	399.31	0.02	7.79
RAA9-L9	53	9,242	8 - 9	<b>0.019</b>	342.29	0.02	6.50
RAA9-L10	210	1,545	8 - 9	<b>0.019</b>	57.23	0.02	1.09
RAA9-L11	104	4,379	8 - 9	<b>0.0195</b>	162.19	0.02	3.16
RAA9-L12	211	8,017	8 - 9	0.023	296.92	0.02	6.83
RAA9-L13	26	3,891	8 - 9	<b>0.019</b>	144.12	0.02	2.74
RAA9-LM10.5	219	234	8 - 9	<b>0.019</b>	8.66	0.02	0.16
RAA9-M4	108	3,318	8 - 9	<b>0.0195</b>	122.90	0.02	2.40
RAA9-M5	220	9,705	8 - 9	3.525	359.44	3.53	1,267.03
RAA9-M6	27	9,556	8 - 9	1.745	353.92	1.75	617.59
RAA9-M7	221	9,992	8 - 9	<b>0.0195</b>	370.06	0.02	7.22
RAA9-M8	109	8,328	8 - 9	<b>0.019</b>	308.45	0.02	5.86
RAA9-M9	222	7,970	8 - 9	<b>0.02175</b>	295.18	0.02	6.42
RAA9-N4.5	54	5,198	8 - 9	<b>0.0195</b>	192.53	0.02	3.75
RAA9-N6	223	7,262	8 - 9	5.1	268.96	5.10	1,371.71
RAA9-N7	110	8,647	8 - 9	0.024	320.25	0.02	7.69
RAA9-N8	224	4,608	8 - 9	<b>0.0165</b>	170.68	0.02	2.82
RAA10-W-12	146	674	8 - 9	<b>0.019</b>	24.98	0.02	0.47
RAA10-W-J4	147	990	8 - 9	<b>0.019</b>	36.66	0.02	0.70
Re-routed Sewer Corridor	1	37,303	8 - 9	0.63	1,381.61	0.63	870.41
SCH-4	5	3,488	8 - 9	<b>0.019</b>	129.18	0.02	2.45
SSR-1	225	936	8 - 9	<b>0.0185</b>	34.65	0.02	0.64
SSR-2	228	326	8 - 9	0.014	12.07	0.01	0.17
SSR-3	28	676	8 - 9	<b>0.0185</b>	25.03	0.02	0.46
SSR-4	229	1,093	8 - 9	<b>0.0185</b>	40.49	0.02	0.75
SSR-5	113	1	8 - 9	0.024	0.05	0.02	0.00
<b>Totals:</b>	--	691,302	--	--	25,603.79	--	28,873.25
<b>Volume Weighted Average:</b>							<b>1.13</b>

**9- TO 10-FOOT DEPTH INCREMENT**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
78-6	31	5,049	9 - 10	<b>0.025</b>	187.00	0.03	4.68
A-08	60	2,462	9 - 10	0.067	91.19	0.07	6.11
A-11	116	1,500	9 - 10	<b>0.0195</b>	55.56	0.02	1.08
H78B-13	17	7,733	9 - 10	12	286.40	12.00	3,436.86
H78B-19	119,120	648	9 - 10	<b>0.038</b>	23.99	0.04	0.91

**TABLE B-7**  
**POST-REMEDIATION CONDITIONS**  
**PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT**  
**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**9- TO 10-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
H78B-21	62	6,075	9 - 10	0.0385	225.00	0.04	8.66
H78B-27	10	4,481	9 - 10	0.057	165.94	0.06	9.46
H78B-30	63	5,176	9 - 10	0.17	191.72	0.17	32.59
H78B-31	122	4,489	9 - 10	0.39	166.26	0.39	64.84
OPCA-1	32	1,879	9 - 10	0.045	69.61	0.05	3.13
OPCA-5	64	1,236	9 - 10	0.022	45.78	0.02	1.01
OPCA-6	124	6,809	9 - 10	0.018	252.17	0.02	4.54
OPCA-7	19	368	9 - 10	0.019	13.63	0.02	0.26
OPCA-SB-4	134,135	1,567	9 - 10	0.017	58.05	0.02	0.99
OPCA-SB-5	68,69	2,146	9 - 10	0.0185	79.47	0.02	1.47
OPCA-SB-6	136,137	1,537	9 - 10	0.017	56.94	0.02	0.97
OPCA-SB-7	20,21	2,569	9 - 10	0.018	95.16	0.02	1.71
OPCA-SB-8	138,139	1,929	9 - 10	0.018	71.44	0.02	1.29
OPCA-SB-9	70,71	919	9 - 10	0.018	34.04	0.02	0.61
OPCA-SB-10	125,126	1,504	9 - 10	0.0175	55.72	0.02	0.98
OPCA-SB-11	33,34	3,931	9 - 10	0.017	145.59	0.02	2.48
OPCA-SB-13	127,128	1,770	9 - 10	0.0165	65.54	0.02	1.08
OPCA-SB-14	65,66	1,844	9 - 10	0.0175	68.30	0.02	1.20
OPCA-SB-16	129,130	1,324	9 - 10	0.0175	49.05	0.02	0.86
OPCA-SB-17	5,6	1,318	9 - 10	0.0185	48.81	0.02	0.90
OPCA-SB-18	131,132	1,957	9 - 10	0.016	72.49	0.02	1.16
OPCA-SB-20	67	2,947	9 - 10	0.0093	109.13	0.01	1.01
OPCA-SB-21	133	2,528	9 - 10	0.0175	93.63	0.02	1.64
OPCA-SB-22	35	419	9 - 10	0.017	15.52	0.02	0.26
PS-W-7	73	4,106	9 - 10	0.025	152.08	0.03	3.80
PS-W-17	142,143	1,649	9 - 10	0.025	61.08	0.03	1.53
PS-W-18	11	2,144	9 - 10	0.025	79.40	0.03	1.98
PS-W-22	144	4,637	9 - 10	0.38	171.74	0.38	65.26
RAA9-1	149	854	9 - 10	180	31.63	180.00	5,693.07
RAA9-A13	150	4,903	9 - 10	40	181.61	40.00	7,264.33
RAA9-A13N	38	1,521	9 - 10	0.016	56.35	0.02	0.90
RAA9-A14	151	9,270	9 - 10	0.59	343.33	0.59	202.56
RAA9-B11	75	3,785	9 - 10	2.9	140.19	2.90	406.54
RAA9-B12	152	4,200	9 - 10	0.11	155.57	0.11	17.11
RAA9-B18	3	4,626	9 - 10	0.0185	171.33	0.02	3.17
RAA9-C9	39	5,190	9 - 10	0.71	192.21	0.71	136.47
RAA9-C10	153	6,721	9 - 10	0.0192	248.93	0.02	4.78
RAA9-C16	154	771	9 - 10	0.019	28.56	0.02	0.54
RAA9-D7	155	1,365	9 - 10	0.0175	50.57	0.02	0.89
RAA9-D8	76	5,868	9 - 10	0.23	217.33	0.23	49.99
RAA9-D9	156	5,549	9 - 10	0.0195	205.51	0.02	4.01
RAA9-E5	22	5,415	9 - 10	0.017	200.56	0.02	3.41
RAA9-E6	157	8,329	9 - 10	0.0175	308.49	0.02	5.40
RAA9-E7	77,78	2,018	9 - 10	0.017	74.76	0.02	1.27
RAA9-F3	160	5,942	9 - 10	0.018	220.08	0.02	3.96
RAA9-F4	12	8,736	9 - 10	0.018	323.56	0.02	5.82
RAA9-F5	161	9,088	9 - 10	0.2	336.58	0.20	67.32
RAA9-F6	80	7,761	9 - 10	0.0195	287.43	0.02	5.60
RAA9-F7	162	698	9 - 10	0.02	25.85	0.02	0.52
RAA9-G2	164	9,195	9 - 10	0.0165	340.54	0.02	5.62
RAA9-G3	165	9,584	9 - 10	0.0195	354.98	0.02	6.92
RAA9-G4	82	8,479	9 - 10	0.0185	314.03	0.02	5.81
RAA9-G5	166	9,770	9 - 10	0.019	361.84	0.02	6.87
RAA9-G7	42,43	1,946	9 - 10	0.0195	72.09	0.02	1.41
RAA9-H2	169	9,562	9 - 10	0.0195	354.17	0.02	6.91
RAA9-H3	171	9,688	9 - 10	0.018	358.81	0.02	6.46
RAA9-H4	85	9,992	9 - 10	0.02	370.07	0.02	7.40
RAA9-H5	172	9,200	9 - 10	0.019	340.75	0.02	6.47



**TABLE B-7**  
**POST-REMEDATION CONDITIONS**  
**PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT**  
**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**9- TO 10-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA9-H6	24	6,072	9 - 10	0.0195	224.89	0.02	4.39
RAA9-H7	173,174	5,251	9 - 10	0.019	194.48	0.02	3.70
RAA9-I2	179	4,062	9 - 10	0.0205	150.45	0.02	3.08
RAA9-I3	89	10,000	9 - 10	0.0195	370.37	0.02	7.22
RAA9-I4	182	10,301	9 - 10	0.0185	381.51	0.02	7.06
RAA9-I5	25	7,877	9 - 10	0.0185	291.75	0.02	5.40
RAA9-I6	183	7,761	9 - 10	0.0175	287.45	0.02	5.03
RAA9-I7	90	7,295	9 - 10	0.021	270.17	0.02	5.67
RAA9-I9	184	1,495	9 - 10	0.022	55.38	0.02	1.22
RAA9-I11	86	1,371	9 - 10	0.167	50.79	0.17	8.48
RAA9-I12	176	6,504	9 - 10	0.01825	240.89	0.02	4.40
RAA9-J3	193	10,082	9 - 10	0.022	373.40	0.02	8.21
RAA9-J4	95	10,806	9 - 10	0.015	400.22	0.02	6.00
RAA9-J5	194	7,272	9 - 10	10	269.32	10.00	2,693.22
RAA9-J6	49	7,804	9 - 10	0.217	289.02	0.22	62.72
RAA9-J7	195	8,657	9 - 10	0.0185	320.65	0.02	5.93
RAA9-J8	96	7,328	9 - 10	0.019	271.39	0.02	5.16
RAA9-J9	196	8,632	9 - 10	0.05	319.70	0.05	15.98
RAA9-J10	47	4,899	9 - 10	0.06	181.43	0.06	10.89
RAA9-J11	185,186	3,323	9 - 10	0.019	123.07	0.02	2.34
RAA9-J12	91,92	6,167	9 - 10	0.02	228.39	0.02	4.57
RAA9-J13	188	2,975	9 - 10	1.45	110.17	1.45	159.75
RAA9-K4	205	12,504	9 - 10	0.058	463.12	0.06	26.86
RAA9-K5	100	9,039	9 - 10	1.055	334.78	1.06	353.20
RAA9-K6	206	8,312	9 - 10	0.37	307.84	0.37	113.90
RAA9-K7	8	8,691	9 - 10	0.031	321.90	0.03	9.98
RAA9-K8	207	8,881	9 - 10	0.038	328.91	0.04	12.50
RAA9-K9	102	6,041	9 - 10	0.0195	223.76	0.02	4.36
RAA9-K10	15	2,206	9 - 10	0.02	81.71	0.02	1.63
RAA9-K11	198	9,493	9 - 10	0.0195	351.57	0.02	6.86
RAA9-K12	97	9,564	9 - 10	0.0195	354.21	0.02	6.91
RAA9-K13	200	3,889	9 - 10	0.019	144.02	0.02	2.74
RAA9-L4	214	8,311	9 - 10	0.02	307.83	0.02	6.16
RAA9-L5	106	9,767	9 - 10	5	361.75	5.00	1,808.75
RAA9-L6	215	9,835	9 - 10	4.6	364.26	4.60	1,675.59
RAA9-L7	16	9,996	9 - 10	0.052	370.24	0.05	19.25
RAA9-L8	216	10,781	9 - 10	0.0195	399.31	0.02	7.79
RAA9-L9	108	9,242	9 - 10	0.019	342.29	0.02	6.50
RAA9-L10	209	1,545	9 - 10	0.019	57.23	0.02	1.09
RAA9-L11	53	4,379	9 - 10	0.0195	162.19	0.02	3.16
RAA9-L12	210	8,017	9 - 10	0.023	296.92	0.02	6.83
RAA9-L13	104	3,891	9 - 10	0.019	144.12	0.02	2.74
RAA9-LM10.5	218	234	9 - 10	0.019	8.66	0.02	0.16
RAA9-M4	55	3,318	9 - 10	0.0195	122.90	0.02	2.40
RAA9-M5	219	9,705	9 - 10	3.525	359.44	3.53	1,267.03
RAA9-M6	109	9,556	9 - 10	1.745	353.92	1.75	617.59
RAA9-M7	220	9,992	9 - 10	0.0195	370.06	0.02	7.22
RAA9-M8	29	8,328	9 - 10	0.019	308.45	0.02	5.86
RAA9-M9	221	7,970	9 - 10	0.02175	295.18	0.02	6.42
RAA9-N4.5	110	5,198	9 - 10	0.0195	192.53	0.02	3.75
RAA9-N6	222	7,262	9 - 10	5.1	268.96	5.10	1,371.71
RAA9-N7	56	8,647	9 - 10	0.024	320.25	0.02	7.69
RAA9-N8	223	4,608	9 - 10	0.0165	170.68	0.02	2.82
RAA10-W-I2	145	674	9 - 10	0.019	24.98	0.02	0.47
RAA10-W-J4	146	990	9 - 10	0.019	36.66	0.02	0.70
Re-routed Sewer Corridor	1	37,303	9 - 10	0.63	1,381.61	0.63	870.41
SCH-4	111	3,488	9 - 10	0.019	129.18	0.02	2.45
SSR-1	224	936	9 - 10	0.0185	34.65	0.02	0.64

**TABLE B-7  
POST-REMEDIATION CONDITIONS  
PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT**

**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**9- TO 10-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
SSR-2	227	326	9 - 10	0.014	12.07	0.01	0.17
SSR-3	113	676	9 - 10	0.0185	25.03	0.02	0.46
SSR-4	228	1,093	9 - 10	0.0185	40.49	0.02	0.75
SSR-5	30	1	9 - 10	0.024	0.05	0.02	0.00
<b>Totals:</b>	--	691,302	--	--	25,603.79	--	28,872.74
<b>Volume Weighted Average:</b>							<b>1.13</b>

**10- TO 11-FOOT DEPTH INCREMENT**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
78-6	30	5,164	10 - 11	0.025	191.27	0.03	4.78
H78B-19	59,60	648	10 - 11	0.037	23.99	0.04	0.89
H78B-21	113	6,075	10 - 11	0.0395	225.00	0.04	8.89
H78B-25	114	2,199	10 - 11	0.034	81.43	0.03	2.77
H78B-30	115	5,176	10 - 11	0.18	191.72	0.18	34.51
H78B-31	7	4,489	10 - 11	0.019	166.26	0.02	3.16
OPCA-1	116	1,879	10 - 11	0.045	69.61	0.05	3.13
OPCA-5	117	1,236	10 - 11	0.022	45.78	0.02	1.01
OPCA-6	31	6,809	10 - 11	0.018	252.17	0.02	4.54
OPCA-7	119	368	10 - 11	0.019	13.63	0.02	0.26
OPCA-SB-4	67,68	1,780	10 - 11	0.017	65.94	0.02	1.12
OPCA-SB-5	128,129	2,386	10 - 11	0.0185	88.38	0.02	1.63
OPCA-SB-6	34,35	1,537	10 - 11	0.017	56.94	0.02	0.97
OPCA-SB-7	130,131	2,569	10 - 11	0.018	95.16	0.02	1.71
OPCA-SB-8	69,70	1,929	10 - 11	0.018	71.44	0.02	1.29
OPCA-SB-9	132,133	919	10 - 11	0.018	34.04	0.02	0.61
OPCA-SB-10	15,16	706	10 - 11	0.0175	26.13	0.02	0.46
OPCA-SB-11	120	2,892	10 - 11	0.017	107.11	0.02	1.82
OPCA-SB-13	63,64	1,686	10 - 11	0.0165	62.43	0.02	1.03
OPCA-SB-14	121,122	1,844	10 - 11	0.0175	68.30	0.02	1.20
OPCA-SB-16	32,33	1,324	10 - 11	0.0175	49.05	0.02	0.86
OPCA-SB-17	123,124	1,318	10 - 11	0.0185	48.81	0.02	0.90
OPCA-SB-18	65,66	1,957	10 - 11	0.016	72.49	0.02	1.16
OPCA-SB-20	125	2,947	10 - 11	0.0093	109.13	0.01	1.01
OPCA-SB-21	4	2,528	10 - 11	0.0175	93.63	0.02	1.64
OPCA-SB-22	126	419	10 - 11	0.017	15.52	0.02	0.26
PS-W-17	17,18	1,649	10 - 11	0.025	61.08	0.03	1.53
PS-W-18	134	4,760	10 - 11	0.13	176.28	0.13	22.92
RAA9-1	9	854	10 - 11	180	31.63	180.00	5,693.07
RAA9-A13	73	4,903	10 - 11	40	181.61	40.00	7,264.33
RAA9-A13N	136	1,521	10 - 11	0.016	56.35	0.02	0.90
RAA9-A14	37	9,270	10 - 11	0.59	343.33	0.59	202.56
RAA9-B11	137	3,785	10 - 11	2.9	140.19	2.90	406.54
RAA9-B12	74	4,200	10 - 11	0.11	155.57	0.11	17.11
RAA9-B18	138	4,626	10 - 11	0.0185	171.33	0.02	3.17
RAA9-C9	139	6,994	10 - 11	0.71	259.03	0.71	183.91
RAA9-C10	19	7,915	10 - 11	0.0192	293.16	0.02	5.63
RAA9-C16	75	771	10 - 11	0.019	28.56	0.02	0.54
RAA9-D7	38	1,365	10 - 11	0.0175	50.57	0.02	0.89
RAA9-D8	140	6,380	10 - 11	0.23	236.30	0.23	54.35
RAA9-D9	76	5,886	10 - 11	0.0195	217.98	0.02	4.25
RAA9-E5	141	5,415	10 - 11	0.017	200.56	0.02	3.41
RAA9-E6	3	8,329	10 - 11	0.0175	308.49	0.02	5.40
RAA9-E7	142,143	2,018	10 - 11	0.017	74.76	0.02	1.27
RAA9-F3	78	5,942	10 - 11	0.018	220.08	0.02	3.96
RAA9-F4	146	8,736	10 - 11	0.018	323.56	0.02	5.82

**TABLE B-7**  
**POST-REMEDATION CONDITIONS**  
**PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT**  
**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**10- TO 11-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA9-F5	20	9,088	10 - 11	0.2	336.58	0.20	67.32
RAA9-F6	147	7,761	10 - 11	0.0195	287.43	0.02	5.60
RAA9-F7	79	698	10 - 11	0.02	25.85	0.02	0.52
RAA9-G2	80	9,195	10 - 11	0.0165	340.54	0.02	5.62
RAA9-G3	10	9,584	10 - 11	0.0195	354.98	0.02	6.92
RAA9-G4	151	8,479	10 - 11	0.0185	314.03	0.02	5.81
RAA9-G5	81	9,888	10 - 11	0.019	366.21	0.02	6.96
RAA9-G7	152,153	1,946	10 - 11	0.0195	72.09	0.02	1.41
RAA9-H2	21	9,562	10 - 11	0.0195	354.17	0.02	6.91
RAA9-H3	42	9,688	10 - 11	0.018	358.81	0.02	6.46
RAA9-H4	158	9,992	10 - 11	0.02	370.07	0.02	7.40
RAA9-H5	84	12,874	10 - 11	0.019	476.81	0.02	9.06
RAA9-H7	159,160	5,527	10 - 11	0.019	204.69	0.02	3.89
RAA9-I2	165	4,062	10 - 11	0.0205	150.45	0.02	3.08
RAA9-I3	44	10,000	10 - 11	0.0195	370.37	0.02	7.22
RAA9-I4	168	10,301	10 - 11	0.0185	381.51	0.02	7.06
RAA9-I5	88	7,906	10 - 11	0.0185	292.83	0.02	5.42
RAA9-I6	169	9,724	10 - 11	0.0175	360.16	0.02	6.30
RAA9-I7	11	8,124	10 - 11	0.021	300.88	0.02	6.32
RAA9-I9	170	1,495	10 - 11	0.022	55.38	0.02	1.22
RAA9-I11	5	2,482	10 - 11	0.167	91.92	0.17	15.35
RAA9-I12	162	8,196	10 - 11	0.01825	303.54	0.02	5.54
RAA9-J3	179	10,082	10 - 11	0.022	373.40	0.02	8.21
RAA9-J4	2	10,806	10 - 11	0.015	400.22	0.02	6.00
RAA9-J5	180	7,272	10 - 11	10	269.32	10.00	2,693.22
RAA9-J6	93	7,804	10 - 11	0.217	289.02	0.22	62.72
RAA9-J7	181	9,389	10 - 11	0.0185	347.76	0.02	6.43
RAA9-J8	48	7,523	10 - 11	0.019	278.65	0.02	5.29
RAA9-J9	182	8,632	10 - 11	0.05	319.70	0.05	15.98
RAA9-J10	89	5,644	10 - 11	0.06	209.04	0.06	12.54
RAA9-J11	171,172	4,454	10 - 11	0.019	164.98	0.02	3.13
RAA9-J12	45,46	6,985	10 - 11	0.02	258.70	0.02	5.17
RAA9-J13	174	2,975	10 - 11	1.45	110.17	1.45	159.75
RAA9-K4	191	12,504	10 - 11	0.058	463.12	0.06	26.86
RAA9-K5	50	9,039	10 - 11	1.055	334.78	1.06	353.20
RAA9-K6	192	8,312	10 - 11	0.37	307.84	0.37	113.90
RAA9-K7	99	8,691	10 - 11	0.031	321.90	0.03	9.98
RAA9-K8	193	8,881	10 - 11	0.038	328.91	0.04	12.50
RAA9-K9	26	6,041	10 - 11	0.0195	223.76	0.02	4.36
RAA9-K10	95	3,520	10 - 11	0.02	130.39	0.02	2.61
RAA9-K11	184	10,814	10 - 11	0.0195	400.51	0.02	7.81
RAA9-K12	24	9,564	10 - 11	0.0195	354.21	0.02	6.91
RAA9-K13	186	3,889	10 - 11	0.019	144.02	0.02	2.74
RAA9-L4	200	8,311	10 - 11	0.02	307.83	0.02	6.16
RAA9-L5	53	9,767	10 - 11	5	361.75	5.00	1,808.75
RAA9-L6	201	9,835	10 - 11	4.6	364.26	4.60	1,675.59
RAA9-L7	104	9,996	10 - 11	0.052	370.24	0.05	19.25
RAA9-L8	202	10,781	10 - 11	0.0195	399.31	0.02	7.79
RAA9-L9	28	9,242	10 - 11	0.019	342.29	0.02	6.50
RAA9-L10	195	1,545	10 - 11	0.019	57.23	0.02	1.09
RAA9-L11	101	4,379	10 - 11	0.0195	162.19	0.02	3.16
RAA9-L12	196	8,017	10 - 11	0.023	296.92	0.02	6.83
RAA9-L13	52	3,891	10 - 11	0.019	144.12	0.02	2.74
RAA9-LM10.5	204	234	10 - 11	0.019	8.66	0.02	0.16
RAA9-M4	105	3,318	10 - 11	0.0195	122.90	0.02	2.40
RAA9-M5	205	10,289	10 - 11	3.525	381.07	3.53	1,343.28
RAA9-M6	54	10,000	10 - 11	2.1	370.37	2.10	777.78
RAA9-M7	206	9,992	10 - 11	0.0195	370.06	0.02	7.22

**TABLE B-7  
POST-REMEDATION CONDITIONS  
PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT  
FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**10- TO 11-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA9-M8	106	8,328	10 - 11	0.019	308.45	0.02	5.86
RAA9-M9	207	7,970	10 - 11	0.02175	295.18	0.02	6.42
RAA9-N4.5	13	6,566	10 - 11	0.0195	243.20	0.02	4.74
RAA9-N6	208	12,599	10 - 11	5.1	466.62	5.10	2,379.75
RAA9-N7	107	8,647	10 - 11	0.024	320.25	0.02	7.69
RAA9-N8	209	4,608	10 - 11	0.0165	170.68	0.02	2.82
RAA10-W-I2	71	674	10 - 11	0.019	24.98	0.02	0.47
RAA10-W-J4	36	990	10 - 11	0.019	36.66	0.02	0.70
Re-routed Sewer Corridor	1	37,303	10 - 11	0.63	1,381.61	0.63	870.41
SCH-4	55	3,488	10 - 11	0.02	129.18	0.02	2.58
SSR-1	210	936	10 - 11	0.0185	34.65	0.02	0.64
SSR-2	108	326	10 - 11	0.013	12.07	0.01	0.16
SSR-3	211	676	10 - 11	0.02	25.03	0.02	0.50
SSR-4	29	1,093	10 - 11	0.0195	40.49	0.02	0.79
SSR-5	212	1	10 - 11	0.0185	0.05	0.02	0.00
<b>Totals:</b>	--	691,302	--	--	25,603.79	--	26,626.10
<b>Volume Weighted Average:</b>							<b>1.04</b>

**11- TO 12-FOOT DEPTH INCREMENT**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
78-6	31	5,164	11 - 12	0.025	191.27	0.03	4.78
H78B-19	59,60	648	11 - 12	0.037	23.99	0.04	0.89
H78B-21	113	6,075	11 - 12	0.0395	225.00	0.04	8.89
H78B-25	114	2,199	11 - 12	0.034	81.43	0.03	2.77
H78B-30	115	5,176	11 - 12	0.18	191.72	0.18	34.51
H78B-31	9	4,489	11 - 12	0.019	166.26	0.02	3.16
OPCA-1	116	1,879	11 - 12	0.045	69.61	0.05	3.13
OPCA-5	117	1,236	11 - 12	0.022	45.78	0.02	1.01
OPCA-6	32	6,809	11 - 12	0.018	252.17	0.02	4.54
OPCA-7	119	368	11 - 12	0.019	13.63	0.02	0.26
OPCA-SB-4	67,68	1,780	11 - 12	0.017	65.94	0.02	1.12
OPCA-SB-5	128,129	2,386	11 - 12	0.0185	88.38	0.02	1.63
OPCA-SB-6	35,36	1,537	11 - 12	0.017	56.94	0.02	0.97
OPCA-SB-7	130,131	2,569	11 - 12	0.018	95.16	0.02	1.71
OPCA-SB-8	69,70	1,929	11 - 12	0.018	71.44	0.02	1.29
OPCA-SB-9	132,133	919	11 - 12	0.018	34.04	0.02	0.61
OPCA-SB-10	16,17	706	11 - 12	0.0175	26.13	0.02	0.46
OPCA-SB-11	120	2,892	11 - 12	0.017	107.11	0.02	1.82
OPCA-SB-13	63,64	1,686	11 - 12	0.0165	62.43	0.02	1.03
OPCA-SB-14	121,122	1,844	11 - 12	0.0175	68.30	0.02	1.20
OPCA-SB-16	33,34	1,324	11 - 12	0.0175	49.05	0.02	0.86
OPCA-SB-17	123,124	1,318	11 - 12	0.0185	48.81	0.02	0.90
OPCA-SB-18	65,66	1,957	11 - 12	0.016	72.49	0.02	1.16
OPCA-SB-20	125	2,947	11 - 12	0.0093	109.13	0.01	1.01
OPCA-SB-21	5	2,528	11 - 12	0.0175	93.63	0.02	1.64
OPCA-SB-22	126	419	11 - 12	0.017	15.52	0.02	0.26
PS-W-17	18,19	1,649	11 - 12	0.025	61.08	0.03	1.53
PS-W-18	134	4,760	11 - 12	0.13	176.28	0.13	22.92
RAA9-1	136	854	11 - 12	180	31.63	180.00	5,693.07
RAA9-A13	137	4,903	11 - 12	40	181.61	40.00	7,264.33
RAA9-A13N	72	1,521	11 - 12	0.016	56.35	0.02	0.90
RAA9-A14	138	9,270	11 - 12	0.59	343.33	0.59	202.56
RAA9-B11	38	3,785	11 - 12	2.9	140.19	2.90	406.54
RAA9-B12	139	4,200	11 - 12	0.11	155.57	0.11	17.11
RAA9-B18	73	4,626	11 - 12	0.0185	171.33	0.02	3.17

**TABLE B-7**  
**POST-REMEDATION CONDITIONS**  
**PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT**  
**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**11- TO 12-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA9-C9	74	6,994	11 - 12	0.71	259.03	0.71	183.91
RAA9-C10	140	7,915	11 - 12	<b>0.0192</b>	293.16	0.02	5.63
RAA9-C16	141	771	11 - 12	<b>0.019</b>	28.56	0.02	0.54
RAA9-D7	142	1,365	11 - 12	<b>0.0175</b>	50.57	0.02	0.89
RAA9-D8	39	6,380	11 - 12	0.23	236.30	0.23	54.35
RAA9-D9	143	5,886	11 - 12	<b>0.0195</b>	217.98	0.02	4.25
RAA9-E5	75	5,415	11 - 12	<b>0.017</b>	200.56	0.02	3.41
RAA9-E6	144	8,329	11 - 12	<b>0.0175</b>	308.49	0.02	5.40
RAA9-E7	3,4	2,018	11 - 12	<b>0.017</b>	74.76	0.02	1.27
RAA9-F3	147	5,942	11 - 12	<b>0.018</b>	220.08	0.02	3.96
RAA9-F4	77	8,736	11 - 12	<b>0.018</b>	323.56	0.02	5.82
RAA9-F5	148	9,088	11 - 12	0.2	336.58	0.20	67.32
RAA9-F6	20	7,761	11 - 12	<b>0.0195</b>	287.43	0.02	5.60
RAA9-F7	149	698	11 - 12	<b>0.02</b>	25.85	0.02	0.52
RAA9-G2	151	9,195	11 - 12	<b>0.0165</b>	340.54	0.02	5.62
RAA9-G3	152	9,584	11 - 12	<b>0.0195</b>	354.98	0.02	6.92
RAA9-G4	11	8,479	11 - 12	<b>0.0185</b>	314.03	0.02	5.81
RAA9-G5	153	9,888	11 - 12	<b>0.019</b>	366.21	0.02	6.96
RAA9-G7	80,81	1,946	11 - 12	<b>0.0195</b>	72.09	0.02	1.41
RAA9-H2	156	9,562	11 - 12	<b>0.0195</b>	354.17	0.02	6.91
RAA9-H3	158	9,688	11 - 12	<b>0.018</b>	358.81	0.02	6.46
RAA9-H4	43	9,992	11 - 12	<b>0.02</b>	370.07	0.02	7.40
RAA9-H5	159	12,874	11 - 12	<b>0.019</b>	476.81	0.02	9.06
RAA9-H7	84,85	5,527	11 - 12	<b>0.019</b>	204.69	0.02	3.89
RAA9-I2	87	4,062	11 - 12	<b>0.0205</b>	150.45	0.02	3.08
RAA9-I3	166	10,000	11 - 12	<b>0.0195</b>	370.37	0.02	7.22
RAA9-I4	45	10,301	11 - 12	<b>0.0185</b>	381.51	0.02	7.06
RAA9-I5	167	7,906	11 - 12	<b>0.0185</b>	292.83	0.02	5.42
RAA9-I6	89	9,724	11 - 12	<b>0.0175</b>	360.16	0.02	6.30
RAA9-I7	168	8,124	11 - 12	<b>0.021</b>	300.88	0.02	6.32
RAA9-I9	12	1,495	11 - 12	0.022	55.38	0.02	1.22
RAA9-I11	160	2,482	11 - 12	0.167	91.92	0.17	15.35
RAA9-I12	7	8,196	11 - 12	<b>0.01825</b>	303.54	0.02	5.54
RAA9-J3	94	10,082	11 - 12	<b>0.022</b>	373.40	0.02	8.21
RAA9-J4	177	10,806	11 - 12	0.015	400.22	0.02	6.00
RAA9-J5	2	7,272	11 - 12	10	269.32	10.00	2,693.22
RAA9-J6	178	7,804	11 - 12	0.217	289.02	0.22	62.72
RAA9-J7	95	9,389	11 - 12	<b>0.0185</b>	347.76	0.02	6.43
RAA9-J8	179	7,523	11 - 12	<b>0.019</b>	278.65	0.02	5.29
RAA9-J9	49	8,632	11 - 12	0.05	319.70	0.05	15.98
RAA9-J10	169	5,644	11 - 12	0.06	209.04	0.06	12.54
RAA9-J11	90,91	4,454	11 - 12	<b>0.019</b>	164.98	0.02	3.13
RAA9-J12	170,171	6,985	11 - 12	<b>0.02</b>	258.70	0.02	5.17
RAA9-J13	47	2,975	11 - 12	1.45	110.17	1.45	159.75
RAA9-K4	100	12,504	11 - 12	0.058	463.12	0.06	26.86
RAA9-K5	188	9,039	11 - 12	1.055	334.78	1.06	353.20
RAA9-K6	51	8,312	11 - 12	0.37	307.84	0.37	113.90
RAA9-K7	189	8,691	11 - 12	0.031	321.90	0.03	9.98
RAA9-K8	101	8,881	11 - 12	0.038	328.91	0.04	12.50
RAA9-K9	191	6,041	11 - 12	<b>0.0195</b>	223.76	0.02	4.36
RAA9-K10	181	3,520	11 - 12	<b>0.02</b>	130.39	0.02	2.61
RAA9-K11	97	10,814	11 - 12	<b>0.0195</b>	400.51	0.02	7.81
RAA9-K12	182	9,564	11 - 12	<b>0.0195</b>	354.21	0.02	6.91
RAA9-K13	25	3,889	11 - 12	<b>0.019</b>	144.02	0.02	2.74
RAA9-L4	104	8,311	11 - 12	<b>0.02</b>	307.83	0.02	6.16
RAA9-L5	199	9,767	11 - 12	5	361.75	5.00	1,808.75
RAA9-L6	53	9,835	11 - 12	4.6	364.26	4.60	1,675.59
RAA9-L7	200	9,996	11 - 12	0.052	370.24	0.05	19.25

**TABLE B-7**  
**POST-REMEDIATION CONDITIONS**  
**PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT**  
**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**11- TO 12-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA9-L8	105	10,781	11 - 12	0.0195	399.31	0.02	7.79
RAA9-L9	202	9,242	11 - 12	0.019	342.29	0.02	6.50
RAA9-L10	27	1,545	11 - 12	0.019	57.23	0.02	1.09
RAA9-L11	193	4,379	11 - 12	0.0195	162.19	0.02	3.16
RAA9-L12	102	8,017	11 - 12	0.023	296.92	0.02	6.83
RAA9-L13	195	3,891	11 - 12	0.019	144.12	0.02	2.74
RAA9-LM10.5	29	234	11 - 12	0.019	8.66	0.02	0.16
RAA9-M4	203	3,318	11 - 12	0.0195	122.90	0.02	2.40
RAA9-M5	106	10,289	11 - 12	3.525	381.07	3.53	1,343.28
RAA9-M6	204	10,000	11 - 12	2.1	370.37	2.10	777.78
RAA9-M7	54	9,992	11 - 12	0.0195	370.06	0.02	7.22
RAA9-M8	205	8,328	11 - 12	0.019	308.45	0.02	5.86
RAA9-M9	107	7,970	11 - 12	0.02175	295.18	0.02	6.42
RAA9-N4.5	206	6,566	11 - 12	0.0195	243.20	0.02	4.74
RAA9-N6	14	12,599	11 - 12	5.1	466.62	5.10	2,379.75
RAA9-N7	207	8,647	11 - 12	0.024	320.25	0.02	7.69
RAA9-N8	108	4,608	11 - 12	0.0165	170.68	0.02	2.82
RAA10-W-I2	71	674	11 - 12	0.019	24.98	0.02	0.47
RAA10-W-J4	37	990	11 - 12	0.019	36.66	0.02	0.70
Re-routed Sewer Corridor	1	37,303	11 - 12	0.63	1,381.61	0.63	870.41
SCH-4	208	3,488	11 - 12	0.02	129.18	0.02	2.58
SSR-1	55	936	11 - 12	0.0185	34.65	0.02	0.64
SSR-2	209	326	11 - 12	0.013	12.07	0.01	0.16
SSR-3	109	676	11 - 12	0.02	25.03	0.02	0.50
SSR-4	210	1,093	11 - 12	0.0195	40.49	0.02	0.79
SSR-5	30	1	11 - 12	0.0185	0.05	0.02	0.00
<b>Totals:</b>	--	691,302	--	--	25,603.79	--	26,626.10
<b>Volume Weighted Average:</b>							<b>1.04</b>

**12- TO 13-FOOT DEPTH INCREMENT**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
78-6	27	5,164	12 - 13	0.025	191.27	0.03	4.78
H78B-19	54,55	648	12 - 13	0.19	23.99	0.19	4.56
H78B-21	107	6,075	12 - 13	0.039	225.00	0.04	8.78
H78B-30	108	5,176	12 - 13	0.71	191.72	0.71	136.12
OPCA-1	56	1,879	12 - 13	0.045	69.61	0.05	3.13
OPCA-5	8	1,236	12 - 13	0.022	45.78	0.02	1.01
OPCA-6	110	7,155	12 - 13	0.018	264.99	0.02	4.77
OPCA-7	58	369	12 - 13	0.019	13.65	0.02	0.26
OPCA-SB-4	120,121	1,780	12 - 13	0.017	65.94	0.02	1.12
OPCA-SB-5	4,5	2,386	12 - 13	0.0185	88.38	0.02	1.63
OPCA-SB-6	122,123	1,537	12 - 13	0.017	56.94	0.02	0.97
OPCA-SB-7	65,66	2,569	12 - 13	0.018	95.16	0.02	1.71
OPCA-SB-8	124,125	1,929	12 - 13	0.018	71.44	0.02	1.29
OPCA-SB-9	30,31	919	12 - 13	0.018	34.04	0.02	0.61
OPCA-SB-10	111,112	1,505	12 - 13	0.0175	55.72	0.02	0.98
OPCA-SB-11	59,60	4,195	12 - 13	0.017	155.37	0.02	2.64
OPCA-SB-13	113,114	1,770	12 - 13	0.0165	65.54	0.02	1.08
OPCA-SB-14	16,17	1,844	12 - 13	0.0175	68.30	0.02	1.20
OPCA-SB-16	115,116	1,324	12 - 13	0.0175	49.05	0.02	0.86
OPCA-SB-17	61,62	1,318	12 - 13	0.0185	48.81	0.02	0.90
OPCA-SB-18	117,118	1,957	12 - 13	0.016	72.49	0.02	1.16
OPCA-SB-20	29	2,947	12 - 13	0.0093	109.13	0.01	1.01
OPCA-SB-21	119	2,528	12 - 13	0.0175	93.63	0.02	1.64
OPCA-SB-22	63	419	12 - 13	0.017	15.52	0.02	0.26

**TABLE B-7**  
**POST-REMEDIATION CONDITIONS**  
**PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT**  
**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**12- TO 13-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
PS-W-17	126,127	1,649	12 - 13	0.025	61.08	0.03	1.53
PS-W-18	67	4,760	12 - 13	0.13	176.28	0.13	22.92
RAA9-1	33	854	12 - 13	180	31.63	180.00	5,693.07
RAA9-A13	68	4,903	12 - 13	40	181.61	40.00	7,264.33
RAA9-A13N	131	1,521	12 - 13	0.016	56.35	0.02	0.90
RAA9-A14	9	9,270	12 - 13	0.59	343.33	0.59	202.56
RAA9-B11	132	3,785	12 - 13	2.9	140.19	2.90	406.54
RAA9-B12	69	4,200	12 - 13	0.11	155.57	0.11	17.11
RAA9-B18	133	4,626	12 - 13	0.0185	171.33	0.02	3.17
RAA9-C9	134	6,994	12 - 13	0.71	259.03	0.71	183.91
RAA9-C10	34	7,915	12 - 13	0.0192	293.16	0.02	5.63
RAA9-C16	70	771	12 - 13	0.019	28.56	0.02	0.54
RAA9-D7	18	1,365	12 - 13	0.0175	50.57	0.02	0.89
RAA9-D8	135	6,380	12 - 13	0.23	236.30	0.23	54.35
RAA9-D9	71	5,886	12 - 13	0.0195	217.98	0.02	4.25
RAA9-E5	136	5,415	12 - 13	0.017	200.56	0.02	3.41
RAA9-E6	35	8,329	12 - 13	0.0175	308.49	0.02	5.40
RAA9-E7	137,138	2,018	12 - 13	0.017	74.76	0.02	1.27
RAA9-F3	73	5,942	12 - 13	0.018	220.08	0.02	3.96
RAA9-F4	141	8,736	12 - 13	0.018	323.56	0.02	5.82
RAA9-F5	36	9,088	12 - 13	0.2	336.58	0.20	67.32
RAA9-F6	142	7,761	12 - 13	0.0195	287.43	0.02	5.60
RAA9-F7	74	698	12 - 13	0.02	25.85	0.02	0.52
RAA9-G2	75	9,195	12 - 13	0.0165	340.54	0.02	5.62
RAA9-G3	37	9,584	12 - 13	0.0195	354.98	0.02	6.92
RAA9-G4	146	8,479	12 - 13	0.0185	314.03	0.02	5.81
RAA9-G5	76	9,888	12 - 13	0.019	366.21	0.02	6.96
RAA9-G7	147,148	1,946	12 - 13	0.0195	72.09	0.02	1.41
RAA9-H2	38	9,562	12 - 13	0.0195	354.17	0.02	6.91
RAA9-H3	20	9,688	12 - 13	0.018	358.81	0.02	6.46
RAA9-H4	153	9,992	12 - 13	0.02	370.07	0.02	7.40
RAA9-H5	79	12,874	12 - 13	0.019	476.81	0.02	9.06
RAA9-H7	154,155	5,539	12 - 13	0.019	205.15	0.02	3.90
RAA9-I2	160	4,062	12 - 13	0.0205	150.45	0.02	3.08
RAA9-I3	21	10,000	12 - 13	0.0195	370.37	0.02	7.22
RAA9-I4	163	10,301	12 - 13	0.0185	381.51	0.02	7.06
RAA9-I5	83	9,988	12 - 13	0.0185	369.93	0.02	6.84
RAA9-I6	164	10,712	12 - 13	0.0175	396.75	0.02	6.94
RAA9-I7	41	8,124	12 - 13	0.021	300.88	0.02	6.32
RAA9-I9	165	1,495	12 - 13	0.022	55.38	0.02	1.22
RAA9-I11	39	2,482	12 - 13	0.167	91.92	0.17	15.35
RAA9-I12	157	8,196	12 - 13	0.01825	303.54	0.02	5.54
RAA9-J3	174	10,082	12 - 13	0.022	373.40	0.02	8.21
RAA9-J4	43	10,806	12 - 13	0.015	400.22	0.02	6.00
RAA9-J5	175	8,347	12 - 13	10	309.13	10.00	3,091.35
RAA9-J6	88	8,148	12 - 13	0.217	301.78	0.22	65.49
RAA9-J7	176	9,389	12 - 13	0.0185	347.76	0.02	6.43
RAA9-J8	2	7,523	12 - 13	0.019	278.65	0.02	5.29
RAA9-J9	177	8,632	12 - 13	0.05	319.70	0.05	15.98
RAA9-J10	84	5,644	12 - 13	0.06	209.04	0.06	12.54
RAA9-J11	166,167	4,454	12 - 13	0.019	164.98	0.02	3.13
RAA9-J12	11,12	6,985	12 - 13	0.02	258.70	0.02	5.17
RAA9-J13	169	2,975	12 - 13	1.45	110.17	1.45	159.75
RAA9-K4	186	12,504	12 - 13	0.058	463.12	0.06	26.86
RAA9-K5	13	9,039	12 - 13	1.055	334.78	1.06	353.20
RAA9-K6	187	8,312	12 - 13	0.37	307.84	0.37	113.90
RAA9-K7	94	8,691	12 - 13	0.031	321.90	0.03	9.98
RAA9-K8	188	8,881	12 - 13	0.038	328.91	0.04	12.50

**TABLE B-7  
POST-REMEDATION CONDITIONS  
PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT**

**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**12- TO 13-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA9-K9	47	6,041	12 - 13	0.0195	223.76	0.02	4.36
RAA9-K10	90	3,520	12 - 13	0.02	130.39	0.02	2.61
RAA9-K11	179	10,814	12 - 13	0.0195	400.51	0.02	7.81
RAA9-K12	44	9,564	12 - 13	0.0195	354.21	0.02	6.91
RAA9-K13	181	3,889	12 - 13	0.019	144.02	0.02	2.74
RAA9-L4	195	8,311	12 - 13	0.02	307.83	0.02	6.16
RAA9-L5	7	9,767	12 - 13	5	361.75	5.00	1,808.75
RAA9-L6	196	9,835	12 - 13	4.6	364.26	4.60	1,675.59
RAA9-L7	99	9,996	12 - 13	0.052	370.24	0.05	19.25
RAA9-L8	197	10,781	12 - 13	0.0195	399.31	0.02	7.79
RAA9-L9	50	9,242	12 - 13	0.019	342.29	0.02	6.50
RAA9-L10	190	1,545	12 - 13	0.019	57.23	0.02	1.09
RAA9-L11	96	4,379	12 - 13	0.0195	162.19	0.02	3.16
RAA9-L12	191	8,017	12 - 13	0.023	296.92	0.02	6.83
RAA9-L13	25	3,891	12 - 13	0.019	144.12	0.02	2.74
RAA9-LM10.5	199	234	12 - 13	0.019	8.66	0.02	0.16
RAA9-M4	100	3,318	12 - 13	0.0195	122.90	0.02	2.40
RAA9-M5	200	10,289	12 - 13	3.525	381.07	3.53	1,343.28
RAA9-M6	26	10,000	12 - 13	2.1	370.37	2.10	777.78
RAA9-M7	201	9,992	12 - 13	0.0195	370.06	0.02	7.22
RAA9-M8	101	8,328	12 - 13	0.019	308.45	0.02	5.86
RAA9-M9	202	7,970	12 - 13	0.02175	295.18	0.02	6.42
RAA9-N4.5	51	6,566	12 - 13	0.0195	243.20	0.02	4.74
RAA9-N6	203	12,599	12 - 13	5.1	466.62	5.10	2,379.75
RAA9-N7	102	8,647	12 - 13	0.024	320.25	0.02	7.69
RAA9-N8	204	4,608	12 - 13	0.0165	170.68	0.02	2.82
RAA10-W-12	128	674	12 - 13	0.019	24.98	0.02	0.47
RAA10-W-J4	129	990	12 - 13	0.019	36.66	0.02	0.70
Re-routed Sewer Corridor	1	37,303	12 - 13	0.63	1,381.61	0.63	870.41
SCH-4	14	3,488	12 - 13	0.0195	129.18	0.02	2.52
SSR-2	205	916	12 - 13	0.0185	33.91	0.02	0.63
SSR-3	103	676	12 - 13	0.0185	25.03	0.02	0.46
SSR-4	206	1,094	12 - 13	0.019	40.52	0.02	0.77
<b>Totals:</b>	--	691,302	--	--	25,603.79	--	27,129.64
<b>Volume Weighted Average:</b>							<b>1.06</b>

**13- TO 14-FOOT DEPTH INCREMENT**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
78-6	27	5,164	13 - 14	0.025	191.27	0.03	4.78
H78B-19	54,55	648	13 - 14	0.19	23.99	0.19	4.56
H78B-21	107	6,075	13 - 14	0.039	225.00	0.04	8.78
H78B-30	108	5,176	13 - 14	0.71	191.72	0.71	136.12
OPCA-1	56	1,879	13 - 14	0.045	69.61	0.05	3.13
OPCA-5	8	1,236	13 - 14	0.022	45.78	0.02	1.01
OPCA-6	110	7,155	13 - 14	0.018	264.99	0.02	4.77
OPCA-7	58	369	13 - 14	0.019	13.65	0.02	0.26
OPCA-SB-4	120,121	1,780	13 - 14	0.017	65.94	0.02	1.12
OPCA-SB-5	4,5	2,386	13 - 14	0.0185	88.38	0.02	1.63
OPCA-SB-6	122,123	1,537	13 - 14	0.017	56.94	0.02	0.97
OPCA-SB-7	65,66	2,569	13 - 14	0.018	95.16	0.02	1.71
OPCA-SB-8	124,125	1,929	13 - 14	0.018	71.44	0.02	1.29
OPCA-SB-9	30,31	919	13 - 14	0.018	34.04	0.02	0.61
OPCA-SB-10	111,112	1,505	13 - 14	0.0175	55.72	0.02	0.98
OPCA-SB-11	59,60	4,195	13 - 14	0.017	155.37	0.02	2.64
OPCA-SB-13	113,114	1,770	13 - 14	0.0165	65.54	0.02	1.08



**TABLE B-7**  
**POST-REMEDIATION CONDITIONS**  
**PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT**  
**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**13- TO 14-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
OPCA-SB-14	16,17	1,844	13 - 14	0.0175	68.30	0.02	1.20
OPCA-SB-16	115,116	1,324	13 - 14	0.0175	49.05	0.02	0.86
OPCA-SB-17	61,62	1,318	13 - 14	0.0185	48.81	0.02	0.90
OPCA-SB-18	117,118	1,957	13 - 14	0.016	72.49	0.02	1.16
OPCA-SB-20	29	2,947	13 - 14	0.0093	109.13	0.01	1.01
OPCA-SB-21	119	2,528	13 - 14	0.0175	93.63	0.02	1.64
OPCA-SB-22	63	419	13 - 14	0.017	15.52	0.02	0.26
PS-W-17	126,127	1,649	13 - 14	0.025	61.08	0.03	1.53
PS-W-18	67	4,760	13 - 14	0.13	176.28	0.13	22.92
RAA9-1	33	854	13 - 14	180	31.63	180.00	5,693.07
RAA9-A13	68	4,903	13 - 14	40	181.61	40.00	7,264.33
RAA9-A13N	131	1,521	13 - 14	0.016	56.35	0.02	0.90
RAA9-A14	9	9,270	13 - 14	0.59	343.33	0.59	202.56
RAA9-B11	132	3,785	13 - 14	2.9	140.19	2.90	406.54
RAA9-B12	69	4,200	13 - 14	0.11	155.57	0.11	17.11
RAA9-B18	133	4,626	13 - 14	0.0185	171.33	0.02	3.17
RAA9-C9	134	6,994	13 - 14	0.71	259.03	0.71	183.91
RAA9-C10	34	7,915	13 - 14	0.0192	293.16	0.02	5.63
RAA9-C16	70	771	13 - 14	0.019	28.56	0.02	0.54
RAA9-D7	18	1,365	13 - 14	0.0175	50.57	0.02	0.89
RAA9-D8	135	6,380	13 - 14	0.23	236.30	0.23	54.35
RAA9-D9	71	5,886	13 - 14	0.0195	217.98	0.02	4.25
RAA9-E5	136	5,415	13 - 14	0.017	200.56	0.02	3.41
RAA9-E6	35	8,329	13 - 14	0.0175	308.49	0.02	5.40
RAA9-E7	137,138	2,018	13 - 14	0.017	74.76	0.02	1.27
RAA9-F3	73	5,942	13 - 14	0.018	220.08	0.02	3.96
RAA9-F4	141	8,736	13 - 14	0.018	323.56	0.02	5.82
RAA9-F5	36	9,088	13 - 14	0.2	336.58	0.20	67.32
RAA9-F6	142	7,761	13 - 14	0.0195	287.43	0.02	5.60
RAA9-F7	74	698	13 - 14	0.02	25.85	0.02	0.52
RAA9-G2	75	9,195	13 - 14	0.0165	340.54	0.02	5.62
RAA9-G3	37	9,584	13 - 14	0.0195	354.98	0.02	6.92
RAA9-G4	146	8,479	13 - 14	0.0185	314.03	0.02	5.81
RAA9-G5	76	9,888	13 - 14	0.019	366.21	0.02	6.96
RAA9-G7	147,148	1,946	13 - 14	0.0195	72.09	0.02	1.41
RAA9-H2	38	9,562	13 - 14	0.0195	354.17	0.02	6.91
RAA9-H3	20	9,688	13 - 14	0.018	358.81	0.02	6.46
RAA9-H4	153	9,992	13 - 14	0.02	370.07	0.02	7.40
RAA9-H5	79	12,874	13 - 14	0.019	476.81	0.02	9.06
RAA9-H7	154,155	5,539	13 - 14	0.019	205.15	0.02	3.90
RAA9-I2	160	4,062	13 - 14	0.0205	150.45	0.02	3.08
RAA9-I3	21	10,000	13 - 14	0.0195	370.37	0.02	7.22
RAA9-I4	163	10,301	13 - 14	0.0185	381.51	0.02	7.06
RAA9-I5	83	9,988	13 - 14	0.0185	369.93	0.02	6.84
RAA9-I6	164	10,712	13 - 14	0.0175	396.75	0.02	6.94
RAA9-I7	41	8,124	13 - 14	0.021	300.88	0.02	6.32
RAA9-I9	165	1,495	13 - 14	0.022	55.38	0.02	1.22
RAA9-I11	39	2,482	13 - 14	0.167	91.92	0.17	15.35
RAA9-I12	157	8,196	13 - 14	0.01825	303.54	0.02	5.54
RAA9-J3	174	10,082	13 - 14	0.022	373.40	0.02	8.21
RAA9-J4	43	10,806	13 - 14	0.015	400.22	0.02	6.00
RAA9-J5	175	8,347	13 - 14	10	309.13	10.00	3,091.35
RAA9-J6	88	8,148	13 - 14	0.217	301.78	0.22	65.49
RAA9-J7	176	9,389	13 - 14	0.0185	347.76	0.02	6.43
RAA9-J8	2	7,523	13 - 14	0.019	278.65	0.02	5.29
RAA9-J9	177	8,632	13 - 14	0.05	319.70	0.05	15.98
RAA9-J10	84	5,644	13 - 14	0.06	209.04	0.06	12.54
RAA9-J11	166,167	4,454	13 - 14	0.019	164.98	0.02	3.13

**TABLE B-7**  
**POST-REMEDATION CONDITIONS**  
**PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT**  
**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**13- TO 14-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA9-J12	11,12	6,985	13 - 14	0.02	258.70	0.02	5.17
RAA9-J13	169	2,975	13 - 14	1.45	110.17	1.45	159.75
RAA9-K4	186	12,504	13 - 14	0.058	463.12	0.06	26.86
RAA9-K5	13	9,039	13 - 14	1.055	334.78	1.06	353.20
RAA9-K6	187	8,312	13 - 14	0.37	307.84	0.37	113.90
RAA9-K7	94	8,691	13 - 14	0.031	321.90	0.03	9.98
RAA9-K8	188	8,881	13 - 14	0.038	328.91	0.04	12.50
RAA9-K9	47	6,041	13 - 14	0.0195	223.76	0.02	4.36
RAA9-K10	90	3,520	13 - 14	0.02	130.39	0.02	2.61
RAA9-K11	179	10,814	13 - 14	0.0195	400.51	0.02	7.81
RAA9-K12	44	9,564	13 - 14	0.0195	354.21	0.02	6.91
RAA9-K13	181	3,889	13 - 14	0.019	144.02	0.02	2.74
RAA9-L4	195	8,311	13 - 14	0.02	307.83	0.02	6.16
RAA9-L5	7	9,767	13 - 14	5	361.75	5.00	1,808.75
RAA9-L6	196	9,835	13 - 14	4.6	364.26	4.60	1,675.59
RAA9-L7	99	9,996	13 - 14	0.052	370.24	0.05	19.25
RAA9-L8	197	10,781	13 - 14	0.0195	399.31	0.02	7.79
RAA9-L9	50	9,242	13 - 14	0.019	342.29	0.02	6.50
RAA9-L10	190	1,545	13 - 14	0.019	57.23	0.02	1.09
RAA9-L11	96	4,379	13 - 14	0.0195	162.19	0.02	3.16
RAA9-L12	191	8,017	13 - 14	0.023	296.92	0.02	6.83
RAA9-L13	25	3,891	13 - 14	0.019	144.12	0.02	2.74
RAA9-LM10.5	199	234	13 - 14	0.019	8.66	0.02	0.16
RAA9-M4	100	3,318	13 - 14	0.0195	122.90	0.02	2.40
RAA9-M5	200	10,289	13 - 14	3.525	381.07	3.53	1,343.28
RAA9-M6	26	10,000	13 - 14	2.1	370.37	2.10	777.78
RAA9-M7	201	9,992	13 - 14	0.0195	370.06	0.02	7.22
RAA9-M8	101	8,328	13 - 14	0.019	308.45	0.02	5.86
RAA9-M9	202	7,970	13 - 14	0.02175	295.18	0.02	6.42
RAA9-N4.5	51	6,566	13 - 14	0.0195	243.20	0.02	4.74
RAA9-N6	203	12,599	13 - 14	5.1	466.62	5.10	2,379.75
RAA9-N7	102	8,647	13 - 14	0.024	320.25	0.02	7.69
RAA9-N8	204	4,608	13 - 14	0.0165	170.68	0.02	2.82
RAA10-W-12	128	674	13 - 14	0.019	24.98	0.02	0.47
RAA10-W-J4	129	990	13 - 14	0.019	36.66	0.02	0.70
Re-routed Sewer Corridor	1	37,303	13 - 14	0.63	1,381.61	0.63	870.41
SCH-4	14	3,488	13 - 14	0.0195	129.18	0.02	2.52
SSR-2	205	916	13 - 14	0.0185	33.91	0.02	0.63
SSR-3	103	676	13 - 14	0.0185	25.03	0.02	0.46
SSR-4	206	1,094	13 - 14	0.019	40.52	0.02	0.77
<b>Totals:</b>	--	691,302	--	--	25,603.79	--	27,129.64
<b>Volume Weighted Average:</b>							<b>1.06</b>

**14- TO 15-FOOT DEPTH INCREMENT**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
78-6	26	5,164	14 - 15	0.025	191.27	0.03	4.78
H78B-13	52	7,733	14 - 15	0.63	286.40	0.63	180.44
H78B-19	53,54	648	14 - 15	0.03	23.99	0.03	0.72
NY-5	27	3,216	14 - 15	0.0115	119.09	0.01	1.37
OPCA-1	107	1,879	14 - 15	0.045	69.61	0.05	3.13
OPCA-5	108	1,236	14 - 15	0.022	45.78	0.02	1.01
OPCA-6	9	7,446	14 - 15	0.018	275.76	0.02	4.96
OPCA-7	110	2,292	14 - 15	0.019	84.88	0.02	1.61
OPCA-SB-4	60,61	1,780	14 - 15	0.017	65.94	0.02	1.12
OPCA-SB-5	120,121	2,386	14 - 15	0.0185	88.38	0.02	1.63

**TABLE B-7**  
**POST-REMEDIATION CONDITIONS**  
**PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT**  
**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**14- TO 15-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
OPCA-SB-6	5,6	1,537	14 - 15	0.017	56.94	0.02	0.97
OPCA-SB-7	122,123	2,569	14 - 15	0.018	95.16	0.02	1.71
OPCA-SB-8	62,63	2,209	14 - 15	0.018	81.83	0.02	1.47
OPCA-SB-9	124,125	3,003	14 - 15	0.018	111.23	0.02	2.00
OPCA-SB-10	28,29	3,614	14 - 15	0.0175	133.84	0.02	2.34
OPCA-SB-11	111,112	4,376	14 - 15	0.017	162.08	0.02	2.76
OPCA-SB-13	56,57	1,770	14 - 15	0.0165	65.54	0.02	1.08
OPCA-SB-14	113,114	1,844	14 - 15	0.0175	68.30	0.02	1.20
OPCA-SB-16	15,16	1,324	14 - 15	0.0175	49.05	0.02	0.86
OPCA-SB-17	115,116	1,318	14 - 15	0.0185	48.81	0.02	0.90
OPCA-SB-18	58,59	1,957	14 - 15	0.016	72.49	0.02	1.16
OPCA-SB-20	117	2,947	14 - 15	0.0093	109.13	0.01	1.01
OPCA-SB-21	30	2,528	14 - 15	0.0175	93.63	0.02	1.64
OPCA-SB-22	118	419	14 - 15	0.017	15.52	0.02	0.26
RAA9-1	128	854	14 - 15	180	31.63	180.00	5,693.07
RAA9-A13	129	8,527	14 - 15	40	315.83	40.00	12,633.03
RAA9-A13N	32	1,766	14 - 15	0.016	65.39	0.02	1.05
RAA9-A14	130	9,270	14 - 15	0.59	343.33	0.59	202.56
RAA9-B11	66	3,785	14 - 15	2.9	140.19	2.90	406.54
RAA9-B12	131	5,621	14 - 15	0.11	208.17	0.11	22.90
RAA9-B18	10	4,626	14 - 15	0.0185	171.33	0.02	3.17
RAA9-C9	33	6,994	14 - 15	0.71	259.03	0.71	183.91
RAA9-C10	132	7,915	14 - 15	0.0192	293.16	0.02	5.63
RAA9-C16	133	771	14 - 15	0.019	28.56	0.02	0.54
RAA9-D7	134	1,365	14 - 15	0.0175	50.57	0.02	0.89
RAA9-D8	67	6,380	14 - 15	0.23	236.30	0.23	54.35
RAA9-D9	135	5,886	14 - 15	0.0195	217.98	0.02	4.25
RAA9-E5	17	5,415	14 - 15	0.017	200.56	0.02	3.41
RAA9-E6	136	8,329	14 - 15	0.0175	308.49	0.02	5.40
RAA9-E7	68,69	2,018	14 - 15	0.017	74.76	0.02	1.27
RAA9-F3	139	5,942	14 - 15	0.018	220.08	0.02	3.96
RAA9-F4	4	8,736	14 - 15	0.018	323.56	0.02	5.82
RAA9-F5	140	9,088	14 - 15	0.2	336.58	0.20	67.32
RAA9-F6	71	7,761	14 - 15	0.0195	287.43	0.02	5.60
RAA9-F7	141	698	14 - 15	0.02	25.85	0.02	0.52
RAA9-G2	143	9,195	14 - 15	0.0165	340.54	0.02	5.62
RAA9-G3	144	9,584	14 - 15	0.0195	354.98	0.02	6.92
RAA9-G4	73	8,479	14 - 15	0.0185	314.03	0.02	5.81
RAA9-G5	145	9,888	14 - 15	0.019	366.21	0.02	6.96
RAA9-G7	36,37	1,946	14 - 15	0.0195	72.09	0.02	1.41
RAA9-H2	148	9,562	14 - 15	0.0195	354.17	0.02	6.91
RAA9-H3	150	9,688	14 - 15	0.018	358.81	0.02	6.46
RAA9-H4	76	9,992	14 - 15	0.02	370.07	0.02	7.40
RAA9-H5	151	12,874	14 - 15	0.019	476.81	0.02	9.06
RAA9-H7	19,20	5,539	14 - 15	0.019	205.15	0.02	3.90
RAA9-I2	7	4,062	14 - 15	0.0205	150.45	0.02	3.08
RAA9-I3	158	10,000	14 - 15	0.0195	370.37	0.02	7.22
RAA9-I4	81	10,301	14 - 15	0.0185	381.51	0.02	7.06
RAA9-I5	159	9,988	14 - 15	0.0185	369.93	0.02	6.84
RAA9-I6	21	10,712	14 - 15	0.0175	396.75	0.02	6.94
RAA9-I7	160	8,455	14 - 15	0.021	313.15	0.02	6.58
RAA9-I9	82	1,736	14 - 15	0.022	64.30	0.02	1.41
RAA9-I11	152	2,482	14 - 15	0.167	91.92	0.17	15.35
RAA9-I12	78	8,196	14 - 15	0.01825	303.54	0.02	5.54
RAA9-J3	22	10,082	14 - 15	0.022	373.40	0.02	8.21
RAA9-J4	169	10,806	14 - 15	0.015	400.22	0.02	6.00
RAA9-J5	87	9,698	14 - 15	10	359.20	10.00	3,591.98
RAA9-J6	170	9,077	14 - 15	0.217	336.19	0.22	72.95

**TABLE B-7  
POST-REMEDATION CONDITIONS  
PARCEL K11-7-2: 0- TO 15-FOOT DEPTH INCREMENT  
FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**14- TO 15-FOOT DEPTH INCREMENT (CONTINUED)**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA9-J7	44	9,776	14 - 15	<b>0.0185</b>	362.07	0.02	6.70
RAA9-J8	171	8,319	14 - 15	<b>0.019</b>	308.12	0.02	5.85
RAA9-J9	88	8,632	14 - 15	0.05	319.70	0.05	15.98
RAA9-J10	161	5,644	14 - 15	0.06	209.04	0.06	12.54
RAA9-J11	41,42	4,454	14 - 15	<b>0.019</b>	164.98	0.02	3.13
RAA9-J12	162,163	6,985	14 - 15	<b>0.02</b>	258.70	0.02	5.17
RAA9-J13	84	2,975	14 - 15	1.45	110.17	1.45	159.75
RAA9-K4	46	12,504	14 - 15	0.058	463.12	0.06	26.86
RAA9-K5	180	10,498	14 - 15	1.055	388.81	1.06	410.20
RAA9-K6	93	9,748	14 - 15	0.37	361.05	0.37	133.59
RAA9-K7	181	8,691	14 - 15	0.031	321.90	0.03	9.98
RAA9-K8	13	8,881	14 - 15	0.038	328.91	0.04	12.50
RAA9-K9	183	6,041	14 - 15	<b>0.0195</b>	223.76	0.02	4.36
RAA9-K10	173	3,520	14 - 15	<b>0.02</b>	130.39	0.02	2.61
RAA9-K11	3	10,814	14 - 15	<b>0.0195</b>	400.51	0.02	7.81
RAA9-K12	174	9,564	14 - 15	<b>0.0195</b>	354.21	0.02	6.91
RAA9-K13	90	3,889	14 - 15	<b>0.019</b>	144.02	0.02	2.74
RAA9-L4	48	8,311	14 - 15	<b>0.02</b>	307.83	0.02	6.16
RAA9-L5	191	9,767	14 - 15	5	361.75	5.00	1,808.75
RAA9-L6	98	9,835	14 - 15	4.6	364.26	4.60	1,675.59
RAA9-L7	192	9,996	14 - 15	0.052	370.24	0.05	19.25
RAA9-L8	8	10,781	14 - 15	<b>0.0195</b>	399.31	0.02	7.79
RAA9-L9	194	9,242	14 - 15	<b>0.019</b>	342.29	0.02	6.50
RAA9-L10	95	1,545	14 - 15	<b>0.019</b>	57.23	0.02	1.09
RAA9-L11	185	4,379	14 - 15	<b>0.0195</b>	162.19	0.02	3.16
RAA9-L12	47	8,017	14 - 15	0.023	296.92	0.02	6.83
RAA9-L13	187	3,891	14 - 15	<b>0.019</b>	144.12	0.02	2.74
RAA9-LM10.5	100	234	14 - 15	<b>0.019</b>	8.66	0.02	0.16
RAA9-M4	195	3,318	14 - 15	<b>0.0195</b>	122.90	0.02	2.40
RAA9-M5	49	9,705	14 - 15	3.525	359.44	3.53	1,267.03
RAA9-M6	196	9,556	14 - 15	2.1	353.92	2.10	743.23
RAA9-M7	101	9,961	14 - 15	<b>0.0195</b>	368.91	0.02	7.19
RAA9-M8	197	8,328	14 - 15	<b>0.019</b>	308.45	0.02	5.86
RAA9-M9	25	7,970	14 - 15	<b>0.02175</b>	295.18	0.02	6.42
RAA9-N4.5	198	5,198	14 - 15	<b>0.0195</b>	192.53	0.02	3.75
RAA9-N6	102	7,262	14 - 15	5.1	268.96	5.10	1,371.71
RAA9-N7	199	5,754	14 - 15	0.024	213.11	0.02	5.11
RAA9-N8	50	4,317	14 - 15	<b>0.0165</b>	159.88	0.02	2.64
RAA10-W-I2	31	674	14 - 15	<b>0.019</b>	24.98	0.02	0.47
RAA10-W-J4	64	990	14 - 15	<b>0.019</b>	36.66	0.02	0.70
RAA10-W-K8	126	471	14 - 15	<b>0.018</b>	17.46	0.02	0.31
Re-routed Sewer Corridor	1	37,303	14 - 15	0.63	1,381.61	0.63	870.41
SCH-4	200	4,275	14 - 15	<b>0.0195</b>	158.32	0.02	3.09
<b>Totals:</b>	--	691,302	--	--	25,603.79	--	31,980.00
<b>Volume Weighted Average:</b>							<b>1.25</b>

**SUMMARY - 0- TO 15-FOOT DEPTH INCREMENT**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
<b>Totals:</b>	--	691,302	--	--	383,971.40	--	1,210,620.33
<b>Volume Weighted Average:</b>							<b>3.15</b>

**Notes:**

1. Non-detectable PCBs included as one-half the detection limit in calculations and shown in bold.
2. For instances where a duplicate sample was available, the average of the samples was included in table.
3. All calculations and rounding are performed by the computer software. Therefore, certain quantities in above table are displayed as rounded numbers for table clarity.
4. Following the installation of the re-routed portions of the sanitary and storm sewer utility corridor, excavated soils (except surface soils associated with sample location RAA9-J10 which were removed and disposed of off-site) were used as backfill. The PCB concentration shown above for "Re-routed Sewer Corridor" represents the average PCB concentration of the excavated soils used as backfill, as presented in a document titled "Supplemental Sampling and Engineering Design Report for Re-routing of Sanitary and Storm Sewer Pipelines" dated July 2007 and approved by EPA on September 11, 2007.

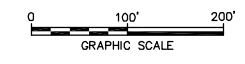


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 XREFS: 20464X07 20464X00  
 IMAGES: PROJECTNAME: -



- LEGEND:**
- K11-7-2 PROPERTY ID
  - HILL 78 AREA-REMAINDER REMOVAL ACTION AREA BOUNDARY
  - AVERAGING AREA BOUNDARY
  - HILL 78 AND BUILDING 71 CONSOLIDATION AREAS (NOT PART OF HILL 78 AREA-REMAINDER RAA)
  - PROPERTY LINE
  - EASEMENT LINE
  - x FENCE LINE
  - EDGE OF SWALE
  - EDGE OF WOODS
  - LIGHT POLE
  - UTILITY POLE
  - BUSH/TREE/SHRUB
  - GAS MARKER
  - MANHOLE
  - SANITARY MANHOLE
  - CATCH BASIN
  - DRAIN MANHOLE
  - ELECTRIC MANHOLE
  - WATER VALVE
  - FIRE HYDRANT
  - STORM SEWER (DRAINAGE) LINE
  - UNDERGROUND ELECTRIC LINE
  - SANITARY LINE
  - WATER LINE
  - GAS LINE
  - ABANDONED STORM SEWER (DRAINAGE) LINE (TAKEN OUT OF SERVICE AND GROUTED)
  - ABANDONED SANITARY LINE (TAKEN OUT OF SERVICE AND GROUTED)
  - GE-OWNED PAVED AREA
  - UNPAVED AREA
  - BUILDING/STRUCTURE
  - RAA9-J13 EXISTING PCB SOIL BORING LOCATION
  - RAA9-L15 EXISTING PCB SURFACE SAMPLE LOCATION
  - APPROXIMATE LIMITS OF EXCAVATION FOR RE-ROUTING OF STORM AND SANITARY SEWER LINES
  - △ HORIZONTAL LIMITS OF AREA ASSOCIATED WITH GIVEN SAMPLE, DEVELOPED USING THE THEISSEN POLYGON APPROACH.
  - 37 POLYGON ID
  - AREA OF PREVIOUS 1-FOOT SOIL REMOVAL
  - AREA PROPOSED FOR SOIL REMOVAL
  - APPROXIMATE AREA OF PREVIOUS FILL MATERIAL PLACEMENT (NOT SINCE 2002/2003)

- NOTES:**
- MAPPING BASED ON ELECTRONIC FILE (S2149W01.DWG) OF SURVEY BY FORESIGHT LAND SERVICES, DATED 3/16/06. UTILITY LOCATIONS BASED ON AVAILABLE RECORD DATA AND VISIBLE FIELD EVIDENCE AND ARE NOT REPRESENTED AS BEING EXACT OR COMPLETE.
  - SAMPLE LOCATIONS ARE APPROXIMATE.



GENERAL ELECTRIC COMPANY  
 PITTSFIELD, MASSACHUSETTS  
**FINAL RD/RA WORK PLAN FOR  
 HILL 78 AREA-REMAINDER**

**THEISSEN POLYGON MAP  
 0.5- TO 1-FOOT DEPTH INCREMENT**

**ARCADIS**

FIGURE  
**B-2**

ARCADIS

Revised Table B-21 and  
Figure B-33

**TABLE B-21**  
**SOIL SAMPLING DATA UTILIZED FOR EVALUATION OF PCBs WITHIN UTILITY CORRIDORS**

**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Location ID	Sample ID	Depth (Feet)	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
<b>PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR PCBs</b>											
OPCA-SB-1	OPCA-SB-1	1-6	5/23/2007	R	R	R	R	R	R	0.69 J	0.69 J
OPCA-SB-2	OPCA-SB-2	1-6	5/23/2007	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.011 J	0.011 J
OPCA-SB-4	OPCA-SB-4	1-6	5/24/2007	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
OPCA-SB-7	OPCA-SB-7	1-6	5/24/2007	ND(0.33) [ND(0.34)]	ND(0.33) [ND(0.34)]	ND(0.33) [ND(0.34)]	ND(0.33) [ND(0.34)]	ND(0.33) [ND(0.34)]	1.8 [1.7]	0.94 [0.86]	2.74 [2.56]
OPCA-SB-11	OPCA-SB-11	1-6	5/9/2007	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.022 J	0.017 J	0.039 J
OPCA-SB-13	OPCA-SB-13	1-6	5/10/2007	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
OPCA-SB-14	OPCA-SB-14	1-6	5/10/2007	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.027 J	0.027 J
OPCA-SB-16	OPCA-SB-16	1-6	5/11/2007	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	0.14 [0.14]	0.14 [0.14]
OPCA-SB-17	OPCA-SB-17	1-6	5/11/2007	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
OPCA-SB-18	OPCA-SB-18	1-6	5/15/2007	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
OPCA-SB-21	OPCA-SB-21	1-6	5/16/2007	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.013 J	0.013 J
OPCA-SB-22	OPCA-SB-22	1-6	5/16/2007	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.23	0.23
RAA9-B11	RAA9-B11	1-6	6/6/2007	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	0.0088 J	0.0088 J
RAA9-B12	RAA9-B12	1-6	6/21/2006	R	R	R	R	R	R	R	R
		1-6	2/15/2007	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
RAA9-C9	RAA9-C9	1-6	6/5/2007	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)	0.018 J	0.018 J
RAA9-C10	RAA9-C10	1-6	6/21/2006	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.18	0.18
RAA9-D9	RAA9-D9	1-6	6/7/2007	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.048	0.048
RAA9-E7	RAA9-E7	1-6	1/5/2005	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA9-F3	RAA9-F3	1-6	6/5/2007	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.016 J	0.0078 J	0.0238 J
RAA9-F6	RAA9-F6	1-6	1/4/2005	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA9-G2	RAA9-G2	1-6	6/22/2006	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA9-G5	RAA9-G5	1-6	10/22/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA9-G7	RAA9-G7	1-6	1/10/2005	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.53	0.53
RAA9-G20	RAA9-G20	1-6	1/25/2005	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA9-H4	RAA9-H4	1-6	10/20/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA9-H5	RAA9-H5	1-6	1/5/2005	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.24	0.28	0.52
RAA9-H6	RAA9-H6	1-6	1/14/2005	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.36	0.25	0.61
RAA9-H7	RAA9-H7	1-6	1/10/2005	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]
RAA9-H16	RAA9-H16	1-6	1/27/2005	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.91	0.74	1.65
RAA9-H17	RAA9-H17	1-6	1/27/2005	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.51	0.49	1.0
RAA9-H18	RAA9-H18	1-6	1/27/2005	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	4.1	4.7	8.8
RAA9-H19	RAA9-H19	1-6	1/25/2005	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA9-H20	RAA9-H20	1-6	2/1/2005	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA9-H22	RAA9-H22	1-6	10/29/2004	ND(0.037) [ND(0.038)]	ND(0.037) [ND(0.038)]	ND(0.037) [ND(0.038)]	ND(0.037) [ND(0.038)]	ND(0.037) [ND(0.038)]	ND(0.037) [ND(0.038)]	ND(0.037) [ND(0.038)]	ND(0.037) [ND(0.038)]
RAA9-I2	RAA9-I2	1-6	1/4/2005	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.14	0.13	0.27
RAA9-I3	RAA9-I3	1-6	10/20/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.81	0.91	1.72
RAA9-I5	RAA9-I5	1-6	10/22/2004	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	3.0	1.2	4.2
RAA9-I6	RAA9-I6	1-6	6/7/2007	ND(0.34)	ND(0.34)	ND(0.34)	ND(0.34)	ND(0.34)	2.2	0.38	2.58
RAA9-I14	RAA9-I14	1-6	1/27/2005	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.64	0.95	1.59
RAA9-I15	RAA9-I15	1-6	1/27/2005	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.032 J	0.032 J
RAA9-I18	RAA9-I18	1-6	1/25/2005	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	3.6	2.8	6.4
RAA9-I20	RAA9-I20	1-6	2/4/2005	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA9-I22	RAA9-I22	1-6	6/19/2006	ND(0.33) J	ND(0.33) J	ND(0.33) J	ND(0.33) J	ND(0.33) J	2.1 J	ND(0.33) J	2.1 J
RAA9-J3	RAA9-J3	1-6	10/22/2004	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.90	0.69	1.59
RAA9-J4	RAA9-J4	1-6	10/22/2004	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	1.7	0.53	2.23
RAA9-J8	RAA9-J8	1-6	1/10/2005	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA9-J9	RAA9-J9	1-6	1/12/2005	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.34	1.5	1.4	3.24
RAA9-J10	RAA9-J10	1-6	1/12/2005	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.080	0.30	0.15	0.53
RAA9-J11	RAA9-J11	1-6	1/21/2005	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA9-J12	RAA9-J12	1-6	2/3/2005	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA9-J15	RAA9-J15	1-6	2/1/2005	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.31	0.47	0.78



**TABLE B-21**  
**SOIL SAMPLING DATA UTILIZED FOR EVALUATION OF PCBs WITHIN UTILITY CORRIDORS**

**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Location ID	Sample ID	Depth (Feet)	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
<b>PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR PCBs (continued)</b>											
RAA9-J17	RAA9-J17	1-6	1/19/2005	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA9-J19	RAA9-J19	1-6	10/27/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.17	0.079	0.249
RAA9-J20	RAA9-J20	1-6	6/16/2006	ND(0.033) J	ND(0.033) J	ND(0.033) J	ND(0.033) J	ND(0.033) J	ND(0.033) J	ND(0.033) J	ND(0.033) J
RAA9-J21	RAA9-J21	1-6	6/19/2006	ND(0.031) J [ND(0.033) J]	ND(0.031) J [ND(0.033) J]	ND(0.031) J [ND(0.033) J]	ND(0.031) J [ND(0.033) J]	ND(0.031) J [ND(0.033) J]	ND(0.031) J [ND(0.033) J]	ND(0.031) J [ND(0.033) J]	ND(0.031) J [ND(0.033) J]
RAA9-J22	RAA9-J22	1-6	6/19/2006	R	R	R	R	R	R	R	R
		1-6	2/13/2007	ND(0.031)	ND(0.031)	ND(0.031)	ND(0.031)	ND(0.031)	ND(0.031)	ND(0.031)	ND(0.031)
RAA9-K3	RAA9-K3	1-6	1/4/2005	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA9-K6	RAA9-K6	1-6	1/11/2005	ND(0.74)	ND(0.74)	ND(0.74)	ND(0.74)	ND(0.74)	9.4	24	33.4
RAA9-K7	RAA9-K7	1-6	1/12/2005	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	1.1	2.3	3.4
RAA9-K8	RAA9-K8	1-6	1/12/2005	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.32	0.33	0.95
RAA9-K12	RAA9-K12	1-6	2/3/2005	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	0.16	0.38	0.54
RAA9-K15	RAA9-K15	1-6	2/3/2005	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA9-K17	RAA9-K17	1-6	1/19/2005	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.14	0.10	0.24
RAA9-K18	RAA9-K18	1-6	2/2/2005	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.20	0.36	0.56
RAA9-K19	RAA9-K19	1-6	6/16/2006	ND(0.034) J	ND(0.034) J	ND(0.034) J	ND(0.034) J	ND(0.034) J	0.12 J	ND(0.034) J	0.12 J
RAA9-K20	RAA9-K20	1-6	6/16/2006	ND(0.032) J	ND(0.032) J	ND(0.032) J	ND(0.032) J	ND(0.032) J	ND(0.032) J	ND(0.032) J	ND(0.032) J
RAA9-K24	RAA9-K24	1-6	10/29/2004	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA9-L4	RAA9-L4	1-6	1/11/2005	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.14	ND(0.037)	0.14
RAA9-L5	RAA9-L5	1-6	1/11/2005	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	2.1	6.9	4.2	13.2
RAA9-L13	RAA9-L13	1-6	1/21/2005	ND(0.043) J	ND(0.043) J	ND(0.043) J	ND(0.043) J	ND(0.043) J	0.19 J	0.49 J	0.68 J
RAA9-L18	RAA9-L18	1-6	1/26/2005	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.053	0.073	0.126
RAA9-L21	RAA9-L21	1-6	1/26/2005	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA9-M4	RAA9-M4	1-6	1/4/2005	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.093	0.14	0.233
RAA9-N6	RAA9-N6	1-6	1/7/2005	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.70	0.90	1.6
RAA9-NO5.5	RAA9-NO5.5	1-6	6/23/2006	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	29	14	43
<b>HISTORICAL SOIL SAMPLING DATA FOR PCBs</b>											
78-3	PH03B0002	0-2	1/7/1991	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.10	0.10
	PH03B0204	2-4	1/7/1991	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
	PH03B0406	4-6	1/7/1991	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.060	0.060
78-4	PH04B0002	0-2	1/9/1991	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	0.65	1.6	2.25
	PH04B0204	2-4	1/9/1991	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	0.060	0.46	0.52
	PH04B0406	4-6	1/9/1991	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	0.68	0.18	0.86
78-6	PH06B0002	0-2	1/3/1991	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
	PH06B0204	2-4	1/3/1991	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	0.10	ND(0.050)	0.10
	PH06B0406	4-6	1/3/1991	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
ASB-12	ASB-12	1-3	4/23/1997	NA	NA	NA	NA	NA	NA	NA	ND(0.036)
		3-5	4/23/1997	NA	NA	NA	NA	NA	NA	NA	93 J [160 J]
DRA-SB-1	OPCA-SW-DRA-SB-1	1-3	6/2/2000	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.024 J	0.024 J
		3-5	6/2/2000	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
		5-7	6/2/2000	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.85	0.85
DRA-SB-2	OPCA-SW-DRA-SB-2	1-3	6/2/2000	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.36	0.36
		3-5	6/2/2000	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.41	0.41
		5-7	6/2/2000	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.12	0.12
DRA-SB-3	OPCA-SW-DRA-SB-3	0-2	5/30/2000	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.050	0.050
DRA-SB-4	OPCA-SW-DRA-SB-4	0-2	5/30/2000	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.058	0.058
DRA-SB-5	OPCA-SW-DRA-SB-5	0-2	5/30/2000	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	1.4	1.4
		2-4	5/30/2000	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
DRA-SB-6	OPCA-SW-DRA-SB-6	0-2	5/30/2000	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.20	0.20
		2-4	5/30/2000	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
DRA-SB-7	OPCA-SW-DRA-SB-7	1-3	5/30/2000	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
DRA-SB-8	OPCA-SW-DRA-SB-8	1-3	5/30/2000	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.098	0.098

**TABLE B-21  
SOIL SAMPLING DATA UTILIZED FOR EVALUATION OF PCBs WITHIN UTILITY CORRIDORS**

**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Location ID	Sample ID	Depth (Feet)	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
<b>HISTORICAL SOIL SAMPLING DATA FOR PCBs (continued)</b>											
DRA-SB-9	OPCA-SW-DRA-SB-9	0-2	5/30/2000	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.021 J	0.021 J
		2-4	5/30/2000	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
DRA-SB-10	OPCA-SW-DRA-SB-10	0-2	5/30/2000	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.042	0.042
		2-4	5/30/2000	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
DRA-SB-11	OPCA-SW-DRA-SB-11	0-2	5/30/2000	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.033 J	0.033 J
		2-4	5/30/2000	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
H78B-17	H17B0.502	0.5-2	7/24/1996	ND(0.34)	ND(0.69)	ND(0.34)	ND(0.34)	ND(0.34)	ND(0.34)	23	23
		2-4	7/24/1996	ND(0.037)	ND(0.075)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.32	0.32
		4-6	7/24/1996	ND(0.036)	ND(0.072)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
H78B-29	H29B0.502	0.5-2	7/25/1996	ND(0.039)	ND(0.080)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	1.4 P	1.4
		2-4	7/25/1996	ND(0.036)	ND(0.074)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	11 P	11
		4-6	7/25/1996	ND(0.038)	ND(0.077)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.073 P	0.073
H78B-31	H31B0.502	0.5-2	6/25/1997	ND(0.035)	ND(0.071)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	2.5	2.5
		2-4	6/25/1997	ND(0.035)	ND(0.072)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	3.1	3.1
		4-6	6/25/1997	ND(0.18)	ND(0.38)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	6.1	6.1
LCH-SB-9	LCH-SB-9	0-2	3/7/2000	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
PS-W-1	PS-W-1A	0-4	7/7/1989	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.45 *	0.45
		4-8	7/7/1989	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
PS-W-3	PS-W-3A	0-4	7/7/1989	ND(0.36)	NA	ND(0.36)	ND(0.36)	ND(0.36)	ND(0.36)	2.8 *	2.8
		4-8	7/7/1989	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.080 *	0.080
PS-W-5	PS-W-5A	0-4	7/7/1989	ND(0.68)	NA	ND(0.68)	ND(0.68)	ND(0.68)	ND(0.68)	20	20
		4-8	7/7/1989	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.070	0.070
PS-W-7	PS-W-7A	0-2	7/7/1989	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	1.4	1.63
		2-6	7/7/1989	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.080 *	0.080
PS-W-9	PS-W-9A	0-4	7/7/1989	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	0.15	0.50	0.65
		4-8	7/7/1989	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.20	0.20
PS-W-11	PS-W-11A	0-4	7/7/1989	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	0.76	1.6	2.36
		4-8	7/7/1989	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	0.050	0.30	0.35
PS-W-13	PS-W-13A	0-4	7/7/1989	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	5.0	3.6	8.6
		4-8	7/7/1989	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	0.39 *	0.22	0.61
PS-W-17	PS-W-17A	0-2	7/7/1989	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	1.9	6.5	8.4
		2-6	7/7/1989	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	0.19	0.17	0.36
PS-W-22	PS-W-22A	0-2	7/7/1989	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	6.6	22	28.6
		2-6	7/7/1989	ND(0.050)	NA	ND(0.050)	ND(0.050)	ND(0.050)	9.2	7.3	16.5
RAA9-2	RAA9-2	1-6	8/2/2002	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.084	0.084
SCH-4	SCH-4	1-2	4/30/1997	NA	NA	NA	NA	NA	NA	NA	ND(0.037)
		2-4	4/30/1997	NA	NA	NA	NA	NA	NA	NA	0.086
		4-6	4/30/1997	NA	NA	NA	NA	NA	NA	NA	ND(0.040)

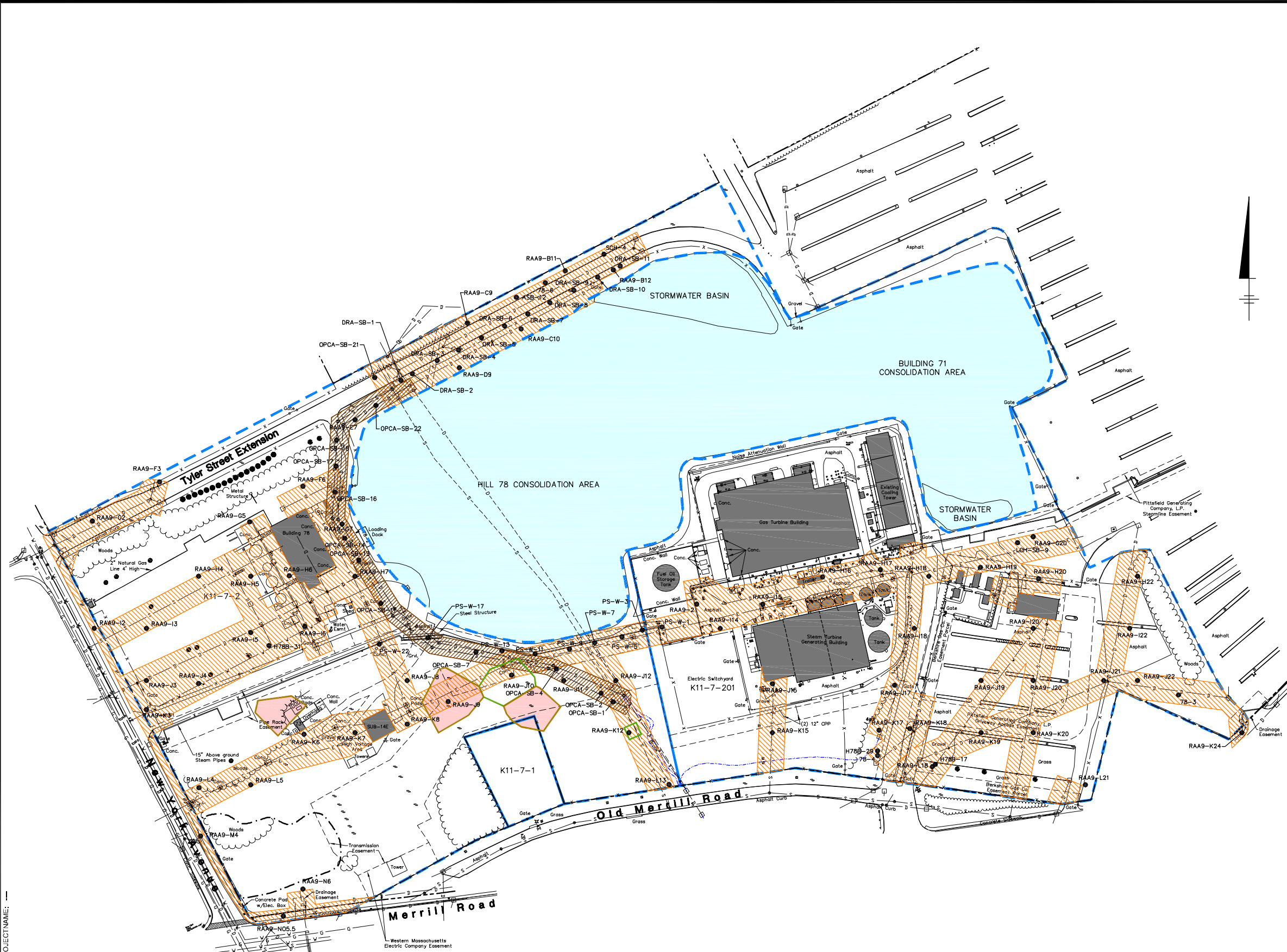
**Notes:**

1. Samples were collected and analyzed by General Electric Company subcontractors for PCBs.
2. NA - Not Analyzed.
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. Field duplicate sample results are presented in brackets.
5. This table supersedes Table B-21 from the *Conceptual Removal Design/Removal Action Work Plan for Hill 78-Remainder*, submitted to EPA in February 2008.

**Data Qualifiers:**

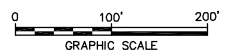
- J - Indicates an estimated value less than the practical quantitation limit (PQL).
- P - Greater than 25% difference between primary and confirmation column.
- \* - Sample exhibits alteration of standard aroclor pattern.

CITY:SYR DIV:GROUP:85 DB:DNW LAF DNWLD:DMW AM: PD: TM: TR: LYRON@OFF/REF\*FRZ\*  
 G:\CAD\GE-CAD\NACT\B00020464\00000005\00000005\DWG\FINAL\RDRA\20464G41.DWG LAYOUT: B-33 SAVED: 6/20/2008 1:03 AM ACADVER: 17.05 (LMS TECH) PAGES: 17 PLOT: PLTIFULL.CTB PLOTTED: 6/20/2008 1:03 AM BY: FORAKER, LYDIA  
 XREFS: 20464X07 20464X00  
 IMAGES: PROJECTNAME: -



- LEGEND:**
- K11-7-2 PROPERTY ID
  - HILL 78 AREA-REMAINDER REMOVAL ACTION AREA BOUNDARY
  - AVERAGING AREA BOUNDARY
  - HILL 78 AND BUILDING 71 CONSOLIDATION AREAS (NOT PART OF HILL 78 AREA-REMAINDER RAA)
  - PROPERTY LINE
  - EASEMENT LINE
  - FENCE LINE
  - EDGE OF SWALE
  - EDGE OF WOODS
  - LIGHT POLE
  - UTILITY POLE
  - BUSH/TREE/SHRUB
  - GAS MARKER
  - MANHOLE
  - SANITARY MANHOLE
  - CATCH BASIN
  - DRAIN MANHOLE
  - ELECTRIC MANHOLE
  - WATER VALVE
  - FIRE HYDRANT
  - STORM SEWER (DRAINAGE) LINE
  - UNDERGROUND ELECTRIC LINE
  - SANITARY LINE
  - WATER LINE
  - GAS LINE
  - ABANDONED STORM SEWER (DRAINAGE) LINE (TAKEN OUT OF SERVICE AND GROUTED)
  - ABANDONED SANITARY LINE (TAKEN OUT OF SERVICE AND GROUTED)
  - BUILDING/STRUCTURE
  - RAA9-J12 EXISTING PCB SOIL BORING LOCATION
  - H78SS-1 EXISTING PCB SURFACE SAMPLE LOCATION
  - APPROXIMATE LIMITS OF EXCAVATION FOR RE-ROUTING OF STORM AND SANITARY SEWER LINES
  - APPROXIMATE LOCATION OF BAND SURROUNDING SUBSURFACE UTILITIES (25 FEET WIDE ON EACH SIDE OF UTILITY)
  - AREA OF PREVIOUS 1-FOOT SOIL REMOVAL
  - 1-FOOT REMOVAL
  - APPROXIMATE AREA OF PREVIOUS FILL MATERIAL PLACEMENT (NOT SINCE 2002/2003)

- NOTES:**
- MAPPING BASED ON ELECTRONIC FILE (S2149W01.DWG) OF SURVEY BY FORESIGHT LAND SERVICES, DATED 3/16/06. UTILITY LOCATIONS BASED ON AVAILABLE RECORD DATA AND VISIBLE FIELD EVIDENCE AND ARE NOT REPRESENTED AS BEING EXACT OR COMPLETE.
  - SAMPLE LOCATIONS ARE APPROXIMATE.



GENERAL ELECTRIC COMPANY  
 PITTSFIELD, MASSACHUSETTS  
**FINAL RD/RA WORK PLAN FOR  
 HILL 78 AREA-REMAINDER**

---

**UTILITY CORRIDOR  
 SOIL SAMPLE LOCATIONS**

---

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FIGURE  
**B-33**

ARCADIS

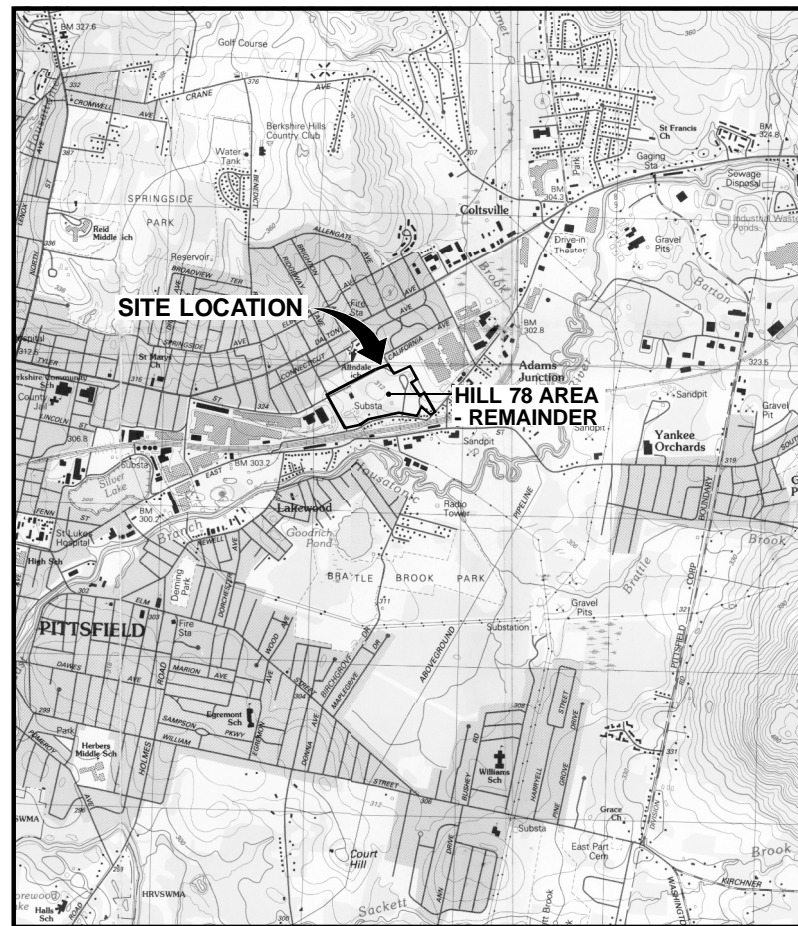
**Attachment B**

Technical Drawings

TECHNICAL DRAWINGS

# HILL 78 AREA-REMAINDER REMOVAL ACTION AREA (RAA)

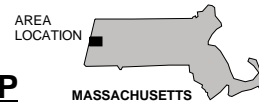
JUNE 2008



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quads., Pittsfield West, Mass-New York and Pittsfield East, Mass., 1973.



**LOCATION MAP**



*General Electric Company  
Pittsfield, Massachusetts*



ARCADIS U.S., INC.

**INDEX TO DRAWINGS**

COVER SHEET

1. EXISTING SITE PLAN
2. SITE PREPARATION PLAN
3. EXCAVATION LIMITS
4. SITE RESTORATION PLAN
5. GENERAL NOTES AND DETAILS













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**Attachment C**

Technical Specifications

**MATERIALS & PERFORMANCE SPECIFICATIONS**

Section 02200 – Earthwork

Section 02207 – Restoration of Surfaces

Section 02212 – Topsoil, Seeding, and Mulch

MATERIALS AND PERFORMANCE - SECTION 02200

EARTHWORK

PART 1 - GENERAL

1.01 DESCRIPTION

- A. All labor, materials, services, and equipment necessary to complete the earthwork activities as depicted on the Technical Drawings and/or as directed by GE or GE's Representative.
- B. Earthwork is defined to include, but is not limited to, clearing, pavement removal, rough grading, excavation for subgrades, trenching, handling and disposal of surplus materials, maintenance of excavations, removal of water, backfilling operations, embankments and fills, and compaction.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Section MP-02207 – Restoration of Surfaces
- B. Section MP-02212 – Topsoil, Seeding, and Mulch
- C. Final RD/RA Work Plan, Section 6.3 – Soil Removal Activities
- D. Final RD/RA Work Plan, Section 6.4 – Excavation Backfill
- E. Final RD/RA Work Plan, Section 8.4.5 – Erosion and Sedimentation Control Measures
- F. Final RD/RA Work Plan, Section 8.5.2 – Transport and Disposition of Excavated Materials and Remediation-Derived Waste
- G. Final RD/RA Work Plan, Section 8.5.3 – Backfilling of Excavations
- H. Final RD/RA Work Plan, Section 8.6 – Perimeter Air Monitoring

1.03 APPLICABLE CODES, STANDARDS AND SPECIFICATIONS

- A. American Society for Testing and Materials (ASTM).

1.04 SUBMITTALS

- A. Prior to earthwork activities, Contractor shall submit proposed equipment list.

PART 2 - PRODUCTS

See following sections.

### PART 3 - EXECUTION

#### 3.01 UNAUTHORIZED EXCAVATION

- A. The Contractor shall not be entitled to any compensation for excavations carried beyond or below the lines and subgrades prescribed on the Technical Drawings. The Contractor shall refill such unauthorized excavations at its own expense and in conformance with the provisions of this section.
- B. Should the Contractor, through negligence or for reasons of its own, carry its excavation below the designated subgrade, topsoil specified in Section MP-02212 – Topsoil, Seeding, and Mulch shall be furnished and placed as backfill in sufficient quantities to reestablish the required surface. Topsoil used for backfilling shall be spread in conformance with the requirements of later subsections of this section.
- C. All material that slides, falls, or caves into the established limits of excavations due to any cause whatsoever, shall be removed and disposed of at the Contractor’s expense and no extra compensation will be paid to the Contractor for any topsoil ordered for refilling the void areas left by the slide, fall, or cave-in.

#### 3.02 BACKFILL MATERIALS

- A. Topsoil shall be used as specified for backfill. Requirements for off-site topsoil are specified in Section MP-02212 – Topsoil, Seeding, and Mulch.
- B. Existing on-site material, designated as “native fill” or “existing soil” material shall not be used as backfill.

#### 3.03 GENERAL BACKFILLING REQUIREMENTS

- A. Drainage of the areas being backfilled shall be maintained at all times.
- B. Areas to be backfilled shall be inspected and approved by GE or GE’s Representative prior to backfilling operations. All unsuitable materials and debris shall be removed.
- C. Topsoil shall not be placed on frozen ground nor shall the topsoil itself be frozen or contain frozen soil fragments when placed.
- D. No calcium chloride or other chemicals shall be added to prevent freezing.
- E. Material incorporated in the backfilling operation that is not in satisfactory condition shall be subject to rejection and removal at the Contractor’s expense.

#### 3.04 GRADING

- A. After the completion of all backfilling operations, the Contractor shall grade the site to the lines, grades, and elevations shown on the Technical Drawings.

### 3.05 EXISTING FACILITIES

#### A. General

1. Existing subsurface facilities may be encountered during construction of the work, or located in close proximity to the work.
2. These facilities may include, but are not necessarily limited to, sewers, drains, water mains, conduits and their appurtenances. These facilities may or may not be shown on the Technical Drawings. However, the sizes, locations, and heights or depths, if indicated, are only approximate and the Contractor shall conduct its operations with caution and satisfy itself as to the accuracy of the information given. The Contractor shall not claim nor shall it be entitled to receive compensation for damages sustained by reason of the inaccuracy of the information given or by reason of its failure to properly maintain and support such structures.
3. There may be other subsurface facilities, the existence and/or location of which are not known, such as individual water and gas services, electrical conduits, sanitary and storm sewer drains, etc. The Contractor shall consult with GE or GE's Representatives of such facilities and, if possible, shall determine, prior to construction, the location and depth of any such facilities that may exist in the area to be excavated.
4. If underground facilities are known to exist in an area but their location is uncertain, the Contractor shall exercise reasonable care in its excavation technique to avoid damage to them.
5. The Contractor shall notify Massachusetts DIGSAFE at least 72 hours prior to any site work.

#### B. Notification and Protection Procedures

1. Except where superseded by state or local regulations, or in the absence of any applicable regulations, the Contractor shall, at a minimum, include the following procedures in its operations:
  - a. Prior to Excavating:
    - 1) Determine correct field location of all nearby underground facilities or arrange for Representatives of the utilities to locate them.
    - 2) Notify owners of nearby underground facilities when excavation is to take place, allowing them reasonable time to institute precautionary procedures or preventive measures which they deem necessary for protection of their facilities.
    - 3) In cooperation with owners of nearby facilities, provide temporary support and protection of those underground facilities that may be especially vulnerable to damage by virtue of their physical condition or location, or those that could create hazardous conditions if damaged.
  - b. Immediately notify any utility owner of any damage to its underground facilities resulting from the Contractor's operations, and arrange for repairs to be made as soon as possible.

- c. In case of any emergency the Contractor shall follow the Contingency and Emergency Procedures Plan outlined in GE's Project Operations Plan. This document will be provided upon request of the Contractor.

### 3.06 OTHER REQUIREMENTS

#### A. Unfinished work

1. When, for any reason, the work is to be left unfinished, all trenches and excavations shall be filled and all roadways and watercourses left unobstructed with their surfaces in a safe and satisfactory condition. The surface of all roadways shall have temporary pavement.

#### B. Hauling Material on Street

1. When hauling material over the streets or pavement, the Contractor shall provide suitably tight-sealing vehicles so as to prevent deposits on the streets or pavements. In all cases where any materials are dropped from the vehicles, the Contractor shall clean up the same as often as required to keep the crosswalks, streets, and pavements clean and free from dirt, mud, stone, and other hauled material.
2. When hauling materials that contain PCBs or other hazardous constituents, the Contractor shall abide by all applicable federal, state, and local codes, including, but not limited to, manifesting and placarding (if necessary).

#### C. Dust Control

1. It shall be the sole responsibility of the Contractor to control the dust created by any and all of its operations to such a degree that it will not endanger the safety and welfare of the general public.

- END OF SECTION -



MATERIALS AND PERFORMANCE - SECTION 02207

RESTORATION OF SURFACES

PART 1 - GENERAL

1.01 DESCRIPTION

- A. All types of surfaces, structures and appurtenances disturbed, damaged, or destroyed during the performance of the work under or as a result of the operations of the Contract, shall be restored and maintained, as specified herein or as directed by GE or GE's Representative.
- B. The quality of materials and the performance of work used in the restoration shall produce a surface or feature equal to or better than the condition of each before the work began, as approved by GE or GE's Representative.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Section MP-02200 – Earthwork
- B. Section MP-02212 – Topsoil, Seeding, and Mulch
- C. Final RD/RA Work Plan, Section 6.4 – Excavation Backfill
- D. Final RD/RA Work Plan, Section 8.5.3 – Backfilling of Excavations
- E. Final RD/RA Work Plan, Section 8.5.5 – Restoration of Disturbed Vegetation

1.03 SUBMITTALS

- A. A schedule of restoration operations shall be submitted by the Contractor for review.
- B. Material cut sheets for chain link fencing shall be submitted by the Contractor for review.
- C. Name of proposed fencing installer shall be submitted by the Contractor for review.

1.04 SCHEDULE OF RESTORATION

- A. After an accepted schedule has been agreed upon, it shall be adhered to unless otherwise revised with the approval of GE or GE's Representative.
- B. The replacement of surfaces at any time, as scheduled or as directed, shall not relieve the Contractor of responsibility to repair damages by settlement or other failures.

## PART 2 - PRODUCTS

### 2.01 CHAIN-LINK FENCING

A. Chain-link fencing shall comply with the following specifications:

6' or 8' Fence:

Fabric:	2" Aluminized Mesh, 6 gauge, selvage to be knuckle/knuckle
Framework:	Top and bottom rails: 1-5/8" schedule 40
	Line posts 2-1/2" schedule 40
	Brace Rail 1-5/8" schedule 40
	Corner Posts 2-1/2" schedule 40
	End Posts 3" schedule 40
	Gate Posts 3" schedule 40
	Gate Frame 2" schedule 40

Post Attachment: install fencing using bolted flanges to concrete slabs or install concrete footings where posts will be located in grass area.

8' Fence: in lawn or earth areas install 48" deep x 12" diameter concrete footings at posts.

6' Fence: in lawn or earth areas, drive fence posts to depth of 4' minimum.

## PART 3 - EXECUTION

### 3.01 ASPHALT PAVEMENT

A. Pavement shall be constructed in the areas requiring restoration (i.e., existing pavement damaged as a result of construction activities) and/or as shown on the Technical Drawings.

1. The thickness of the asphalt and subbase coarse shall be at least equal to existing thicknesses or as shown on the Technical Drawings.
2. After compaction, the surface shall conform to the slope and grade of the area being replaced and/or as shown on the Technical Drawings.

### 3.02 GRASSED AREAS

- A. The furnishing and placing of topsoil, seed, and mulch shall be as directed by GE or GE's Representative.
- B. When required to obtain germination, the seeded areas shall be watered in such a manner as to prevent washing out of the seed.
- C. Precautionary measures shall be taken to prevent washout or other damage to seeded areas. If a washout or other damage occurs, the area shall be regraded and/or reseeded at the Contractor's expense until a sod, approved by GE or GE's Representative, is established.
- D. The Contractor shall maintain the newly seeded areas in good condition, including regrading, reseeding, remulching, and watering, as necessary.

### 3.04 OTHER TYPES OF RESTORATION

- A. Drainage structures, including culverts, manholes, catch basins, sidewalks, pavements and piping, curbs and gutters, that are destroyed or removed as a result of the construction operations shall be replaced in like size and material and shall be replaced at the original location and grade unless otherwise shown on the Technical Drawings. When there is minor damage to a drainage structure and with the consent of GE or GE's Representative, a repair may be undertaken, if satisfactory results can be obtained.
- B. Fences and gates destroyed, damaged, removed or otherwise altered as a result of the construction operations shall be replaced in like size and material and shall be replaced at the original location unless otherwise noted on the Technical Drawings.
- C. Chain link fencing shall be installed by a properly licensed, qualified fencing installer.

### 3.05 MAINTENANCE

- A. The finished products of restoration shall be maintained in an acceptable condition for and during a period of two years following the date of Substantial Completion or other such date as set forth elsewhere in the Contract Documents.

- END OF SECTION -

MATERIALS AND PERFORMANCE - SECTION 02212

TOPSOIL, SEEDING, AND MULCH

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Work under this section consists of furnishing and placing of topsoil, fertilizer, seed, mulch, erosion control matting, and maintenance of seeded areas until final acceptance.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Section MP-02200 – Earthwork
- B. Section MP-02207 – Restoration of Surfaces
- C. Final RD/RA Work Plan, Section 6.4 – Excavation Backfill
- D. Final RD/RA Work Plan, Section 8.5.3 – Backfilling of Excavations
- E. Final RD/RA Work Plan, Section 8.5.5 – Restoration of Disturbed Vegetation

1.03 SUBMITTALS

- A. Analysis of the seed (to demonstrate compliance with the seed mix identified in Sections 2.01D and 2.01E of this specification) and fertilizer (to identify chemical composition), and proposed application rates (to demonstrate compliance with the fertilizer application rate identified in Section 3.01B of this specification).
- B. Should hydroseed be used, the Contractor shall submit all data including material and application rates and methods.
- C. Sample of topsoil to be tested by GE for chemical contaminants as discussed in Section 6.4 – Excavation Backfill.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Any offsite topsoil shall be unfrozen, friable, natural loam and shall be free of clay lumps, brush needs, litter, stumps, stones, and other extraneous matter. The topsoil shall have an organic content between 5% and 20%, and a pH between 5.5 and 7.5.

- B. Fertilizer shall be a standard quality commercial carrier of available plant food elements (i.e., a complete prepared and packaged material containing a minimum of 5% nitrogen, 10% phosphoric acid, and 10% potash).
  - 1. Each bag of fertilizer shall bear the manufacturer's guaranteed statement of analysis.
- C. Seed mixtures shall be of commercial stock of the current season's crop and shall be delivered in unopened containers bearing the guaranteed analysis of the mix. All seed shall meet the State standards of germination and purity.
- D. Seed mix to be used in vegetated areas shall consist of the following mixture: 65% Kentucky Blue Grass, 20% Perennial Rye Grass, and 15% Fescue. The seed mixture will be seeded at a rate of 150 pounds per acre.
- E. Mulch shall be stalks of oats, wheat, rye, or other approved crops free from noxious weeds and coarse materials.

### PART 3 - EXECUTION

#### 3.01 INSTALLATION

- A. The topsoil shall be applied in a single loose lift and shall have a final thickness as shown on the Technical Drawings. No compaction is required or allowed. Following placement of topsoil and prior to fertilizer application, all stones greater than ½-inch in diameter, sticks, and other deleterious material shall be removed.
- B. The fertilizer shall be applied to the surface uniformly at the rate of 20 pounds per 1,000 square feet.
  - 1. Following the application of the fertilizer and prior to application of the seed, the topsoil shall be scarified to a depth of at least 2 inches with a disk or other suitable method traveling across the slope if possible.
    - a. After the soil surface has been fine-graded, the seed mixture shall be uniformly applied upon the prepared surface with a mechanical spreader at a rate specified by the seed manufacturer.
    - b. The seed shall be raked lightly into the surface.
    - c. Seeding and mulching shall not be done during windy weather.
    - d. Mulch (where used) shall be hand or machine spread to form a continuous blanket over the seed bed, approximately 2 inches in uniform thickness at loose measurement with a minimum of 90% surface coverage. Excessive amounts or bunching of mulch shall not be permitted.
    - e. Unless otherwise specified, mulch shall be left in place and allowed to decompose.

2. Any mulch that has not disintegrated at time of first mowing shall be removed.
  - a. Seeded areas shall be watered as often as required to obtain germination and to obtain and maintain a satisfactory sod growth. Watering shall be performed in such a manner as to prevent washing out of seed and mulch.
  - b. Hydroseeding may be accepted as an alternative method of applying fertilizer, seed, and mulch. The Contractor must submit all data regarding materials and application rates to GE or GE's Representative for review.

### 3.02 MAINTENANCE

- A. All erosion rills or gullies within the topsoil layer shall be filled with additional approved topsoil, graded smooth, and re-seeded and mulched.
- B. The Contractor shall also be responsible for repairs to all erosion of the seeded areas until all new grass is firmly established and reaches a height of not less than 4 inches. All bare or poorly vegetated areas must be re-seeded and mulched.

- END OF SECTION -

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**Attachment D**

Contractor Submittal Tracking  
Form

**ATTACHMENT D  
CONTRACTOR SUBMITTAL TRACKING FORM**

**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Item No.	Submittal Description	Specification Reference (see Note 2)	Date Received	Review Conducted by:		Interim Status/Date (see Note 1)	Final Status/Date (see Note 1)	Notes
				GE Project Manager	Design Engineer			
1	Operations Plan - The Plan shall address, but not be limited to the following items:	Section 8.3						
	List of Equipment to be used on-site	Section 8.3 / Materials and Performance - Section 02200 (1.04)(A)						
	Work Schedule	Section 8.3						
	The Contractor's proposed plan for controlling vehicular and pedestrian traffic while performing construction and operational activities	Section 8.3						
	The Contractor's qualifications package (if requested by GE)	Section 8.3						
	Stormwater (including run-on and run-off), erosion, noise, and dust control measures.	Section 8.3						
	The Contractor's proposed excavation approach	Section 8.3						
	Materials handling and staging approach	Section 8.3						
	Measures and equipment to be used for dust suppression	Section 8.3						
	Provisions for inspection and decontamination of exterior of transport vehicles prior to leaving site	Section 8.3						
Equipment cleaning procedures	Section 8.3							
2	Health and Safety Plan - The Plan shall address, but not be limited to, the following items (Refer to Note 3):	Section 8.3						
	Identification of Key Personnel	Section 8.3						
	Training	Section 8.3						
	Medical Surveillance	Section 8.3						
	Site Hazards	Section 8.3						
	Work Zones	Section 8.3						
	Personal Safety Equipment and Protective Clothing	Section 8.3						
	Personal Air Monitoring	Section 8.3						
	Personnel/Equipment Cleaning	Section 8.3						
	Confined Space Entry	Section 8.3						
	Material Safety Data Sheets	Section 8.3						
	Construction Safety Procedures	Section 8.3						
	Standard Operating Procedures	Section 8.3						
3	Contingency Plan - The Plan shall address, but not be limited to, the following items:	Section 8.3						
	Spill prevention control and countermeasures plan for all materials brought on site	Section 8.3						
	Buried container control/contingency measures	Section 8.3						
	Emergency vehicular access/egress	Section 8.3						
	Evacuation procedures of personnel from the work sites	Section 8.3						
	List of all contact personnel with phone numbers and procedures for notifying each	Section 8.3						
	Routes to local hospitals	Section 8.3						
Identification of responsible personnel who will be in a position at all times to receive incoming phone calls and to dispatch Contractor personnel and equipment in the event of an emergency situation	Section 8.3							
4	Identification of topsoil source and location and analytical data for sample(s) collected from the source (unless the source has already been approved based on previously submitted analytical data).	Section 6.4/8.3						
5	Record Drawings to document any deviations from the work specified in the contract documents. Deviations shall be noted on the Record Drawings as soon as possible following their identification by the Contractor, GE, or GE's Representative.	Section 9.2						



**ATTACHMENT D  
CONTRACTOR SUBMITTAL TRACKING FORM**

**FINAL RD/RA WORK PLAN FOR HILL 78 AREA-REMAINDER  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Item No.	Submittal Description	Specification Reference (see Note 2)	Date Received	Review Conducted by:		Interim Status/Date (see Note 1)	Final Status/Date (see Note 1)	Notes
				GE Project Manager	Design Engineer			
6	Daily Construction Reports prepared by GE's Representative will include documentation of problems and/or deficiencies noted during construction (e.g., when construction material or activity is observed or tested that does not meet the specified requirements), and corrective action employed to address the problems or deficiencies. The documentation reports will be cross-referenced to the reports, data sheets, forms, and check lists that contain data or observations leading to the determination of a problem or deficiency. Problem and deficiency identification and corrective action documentation.	--						
7	Restoration of Surfaces - A schedule of restoration operations.	Materials and Performance Section 02207 (1.03)(A)						
8	Restoration of Surfaces - Material cut sheets for chain link fencing.	Materials and Performance Section 02207 (1.03)(B)						
9	Restoration of Surfaces - Name of proposed fencing installer.	Materials and Performance Section 02207 (1.03)(C)						
10	Topsoil, Seeding, and Mulch - Analysis of the seed and fertilizer, and proposed application rates.	Materials and Performance Section 02212 (1.03)(A)						
11	Topsoil, Seeding, and Mulch - Should hydroseed be used, the Contractor shall submit all data, including material and application rates.	Materials and Performance Section 02212 (1.03)(B)						
12	Topsoil, Seeding, and Mulch - Sample of topsoil to be tested by GE for chemical contaminants.	Materials and Performance Section 02212 (1.03); Section 6.4						

Notes:

1. Submittal status nomenclature is as follows:

- R - Reviewed
- N - Reviewed and noted
- S - Resubmit
- J - Rejected

2. All Section and Specification references are to the *Final RD/RA Work Plan for Hill 78 Area-Remainder* (ARCADIS, June 2008).

3. The Health and Safety Plan is required for GE record-keeping purposes only and therefore GE and ARCADIS will conduct a review of the plan for completeness only. Determination of the appropriate level of worker safety, equipment, and procedures based on site conditions must be made by the Contractor based on site visits, review of available information, and anticipated site activities.

4. Shaded item numbers indicate submittals required by GE but not subject to submittal to EPA as part of the supplemental information package.

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**Attachment E**

Post-Removal Site Control Plan

## Post-Removal Site Control Plan

### 1.1 General

This attachment presents GE's Post-Removal Site Control Plan for Hill 78 Area-Remainder. Such activities include periodic inspections and maintenance/repair (if required) of the backfilled, restored, and revegetated areas. As indicated in this Final Work Plan, GE will seed and mulch all areas that are backfilled during remediation, as well as any other disturbed areas, and may perform additional restoration activities at Hill 78 Area-Remainder based on information to be submitted to EPA following the completion of Phase III final cover operations for the Hill 78 OPCA. This Post-Removal Site Control Plan describes the post-construction activities that GE will perform to monitor and maintain the restored areas. This plan has been developed in accordance with Attachment J to the *Statement of Work for Removal Actions Outside the River* (SOW). Following submission and EPA approval of a Final Completion Report for the Hill 78-Remainder Removal Action, this Post-Removal Site Control Plan will be replaced with the Post-Removal Site Control Plan set forth in the Final Completion Report.

### 1.2 Periodic Inspections

GE will initiate post-construction inspections of the restored surfaces at Hill 78 Area-Remainder following completion of construction activities. Such inspections will be performed for areas that were backfilled, restored, and/or revegetated and will be conducted in accordance with the requirements set forth below. GE will provide EPA with a minimum 14-day notification prior to conducting any of these inspections.

For backfilled/restored areas, the first inspection will be performed approximately one month after completion of construction activities. Thereafter, these areas will be inspected two times per year for the first year after implementation, and annually thereafter (subject to EPA approval of a different frequency). In addition, these areas will be inspected after severe storm events to ensure that they have not sustained significant damage. For this purpose, a severe storm is defined as a storm event in which a 15-minute instantaneous peak of 3,500 cubic feet per second (cfs) or greater is measured on the Housatonic River at the United States Geological Survey (USGS) gauging station at Coltsville, Massachusetts.

At a minimum, these inspections will consist of visual observations focusing on the following: (a) the effectiveness of erosion controls in areas where vegetation is not yet established; (b) any areas where excessive settlement has occurred relative to the surrounding areas; (c) any drainage or growth problems; (d) any areas of erosion; and (e)

other conditions that could jeopardize the performance of the completed remediation actions (for example, burrows, vehicle ruts, unauthorized uses of areas, etc.). Inspection is not required of any pavement within Hill 78 Area-Remainder because, as indicated in this Final Work Plan, GE has elected to evaluate the entire RAA as unpaved.

In addition, GE will inspect all revegetated areas at Hill 78 Area-Remainder two times per year for a two-year period after the planting of the vegetation to assess the condition of the vegetation, including any evidence of stressed or sparse cover, and to ensure that the vegetation is growing as anticipated and providing the desired degree of erosion control. These inspections will be conducted in May and in August or September of each year during this two-year period.

### **1.3 Maintenance/Repair**

GE will conduct maintenance and repair of site conditions and features as necessary to address any such problematic conditions noted during the above-described inspections (or otherwise observed by GE or by EPA or MDEP and communicated to GE). Maintenance/repair activities that may be identified and conducted include, but are not limited to, placement of additional topsoil in areas of erosion or settlement and repair or replacement of any components of the backfilled/restored areas exhibiting deficiencies or potential problems. If needed, additional planting or seeding will be performed to replace dead, dying, or sparse vegetation.

### **1.4 Inspection Reporting**

After each inspection, a report will be prepared and submitted to EPA within 30 days of the completion of the inspection. These reports will include the name and contact phone number for the person(s) conducting the inspection and will document the inspection and maintenance activities performed since the submittal of the previous report, as well as future inspection and maintenance activities. As required by Attachment J to the SOW, these reports will include the following information, as relevant:

- Description of the type and frequency of inspection and/or monitoring activities conducted;
- Description of any significant modifications to the inspection and/or monitoring program made since submittal of the preceding monitoring report;

- Description of any conditions or problems noted during the inspection and/or monitoring period which are affecting or may affect the completed remediation;
- Description of any corrective measures taken;
- Results of sampling analyses and screening (if any) conducted as part of the inspection and/or monitoring program (if any); and
- Description of any measures that may need to be performed to correct any conditions affecting the completed remediation.

Any deficiencies identified during the inspections will be corrected within 90 days of the inspection date, unless otherwise proposed by GE and approved by EPA.