Transmitted Via Overnight Courier

August 15, 2003

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

Re: GE-Pittsfield/Housatonic River Site
East Street Area 2-South (GECD150)
Supplemental Pre-Design Investigation Report

Dear Mr. Olson:

In accordance with GE's approved *Pre-Design Investigation Report for the East Street Area 2-South Removal Action* (January 2003), enclosed is the *Supplemental Pre-Design Investigation Report for the East Street Area 2-South Removal Action*. This report summarizes activities performed and results obtained during supplemental pre-design investigations at East Street Area 2-South.

The results of the recent supplemental pre-design investigation activities in conjunction with the activities and results presented in the *Pre-Design Investigation Report for the East Street Area 2-South Removal Action* are generally sufficient to characterize the soils within East Street Area 2-South, and thus to support future RD/RA activities. However, some additional information is needed to support GE's future technical evaluations and preparation of a Conceptual RD/RA Work Plan. Therefore this report also proposes additional activities to be conducted prior to the preparation of the Conceptual RD/RA Work Plan.

Please call John Novotny or me if you have any questions about this report.

Sincerely,

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

Enclosure
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cc: Unless otherwise noted, the individuals listed below are to receive a hard copy of the cover letter and report.

Tim Conway, EPA
Holly Inglis, EPA
Michael Nalipinski, EPA
Rose Howell, EPA (CD copy of report only)
K.C. Mitkevicius, USACE (CD copy of report only)
Dawn Jamros, Weston (1 hard copy & 1 CD copy of report)
Susan Steenstrup, MDEP (2 copies)
Alan Weinberg, MDEP (cover letter only)
Robert Bell, MDEP (cover letter only)
Thomas Angus, MDEP (cover letter only)
Nancy E. Harper, MA AG (cover letter only)
Dale Young, MA EOEA
Mayor Sara Hathaway, City of Pittsfield
Thomas Hickey, Director, PEDA
Jeffrey Bernstein, Bernstein, Cushner & Kimmel
Teresa Bowers, Gradient
Michael Carroll, GE (cover letter only)
John Novotny, GE
Rod McLaren, GE (cover letter only)
James Nuss, BBL
James Bieke, Shea & Gardner
Jeffrey Porter, Mintz, Levin (cover letter only)
Richard Nasman, Berkshire Gas Company
Michael McHugh, Rich May
Robert Cataldo, ENSR
David Mauro, META
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REPORT

Supplemental Pre-Design Investigation Report for the East Street Area 2-South Removal Action

General Electric Company
Pittsfield, Massachusetts

August 2003

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BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Table of Contents

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 soils, 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 (the 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. These work plans/documents include a Pre-Design Investigation Work Plan, a Pre-Design Investigation Report, a Conceptual Removal Design/Removal Action (RD/RA) Work Plan (for some Removal Actions), and a Final RD/RA Work Plan.

This document constitutes GE's *Supplemental Pre-Design Investigation Report for East Street Area 2-South Removal Action* (Supplemental Pre-Design Report) and summarizes the results of a supplemental soil investigation performed by GE within the East Street Area 2–South RAA (Figure 1). This report also evaluates the sufficiency of the data obtained from this and previous investigations to support the development of a Conceptual RD/RA Work Plan for this Removal Action.

The supplemental pre-design investigation activities for East Street Area 2-South were performed as described in the *Pre-Design Investigation Report for East Street Area 2-South Removal Action* (Pre-Design Report) dated January 2003, as modified by EPA in its conditional approval letter for the Pre-Design Report dated April 24, 2003. The approved activities were completed by GE between May 14 and 21, 2003 and resulted in the collection of additional pre-design soil data that will be used for future RD/RA evaluations for this area.

The additional soil samples collected during this supplemental pre-design investigation have been added to the data obtained from the pre-design investigation (conducted between April 22 and October 18, 2002) that will be incorporated, as appropriate, along with the data obtained from other prior investigations, in future RD/RA evaluations. The supplemental soil data collected during this most recent investigation addressed the data needs identified in the Pre-Design Report and included the following:

- One location was sampled to complete sampling at a location where refusal was encountered at a depth of approximately 2 feet below ground surface (bgs) during the pre-design investigation.

- Two surface locations were sampled to assess the presence of PCBs in surface soils along the northwest boundary of the RAA.

- 27 locations were sampled for to assess the presence of PCBs within subsurface utility corridors potentially subject to emergency repair that traverse the RAA.

- 26 surface locations and one subsurface location were sampled to evaluate the presence of PCBs in the 200-foot wide Riparian Removal Zone (RRZ) located along the north edge of the Housatonic River (excluding the riverbank), and eight of these sample were analyzed for other constituents listed in Appendix IX of 40 CFR Part 264 (excluding pesticides and herbicides), plus three additional constituents -- benzidine, 2-chloroethylvinyl ether, and 1,2-diphenylhydrazine (Appendix IX+3).

This Supplemental Pre-Design Report presents the soil analytical data obtained during this supplemental investigation. The supplemental soil data available to support RD/RA evaluations include results from approximately 87 analyses of soil samples collected from 56 locations. Depending on the specific sample location and depth, these sampling data include results for PCBs and/or other Appendix IX+3 constituents

2. Summary of Supplemental Pre-Design Investigations

2.1 General

As discussed in Section 1 of this Supplemental Pre-Design Report, the data obtained during this investigation will be used in conjunction with data obtained from the initial pre-design investigation and prior investigations to support future RD/RA evaluations of soils within East Street Area 2-South. The majority of the data was obtained by GE as part of the initial pre-design investigations conducted between January 17, 2001 and October 18, 2002 in accordance with the PDI Work Plans and the FCRA PDI Work Plan. Those investigations, as well as the supplemental pre-design investigations, were performed on behalf of GE by Blasland, Bouck & Lee (BBL), while analytical services were provided by CT&E Environmental Services, Inc (CT&E). During performance of the supplemental pre-design investigation, Weston Solutions, Inc. (Weston) performed oversight activities on behalf of EPA, including collection and analysis of one split sample. In addition, ENSR International, representing Berkshire Gas Company (Berkshire Gas), was present during a portion of the sampling. During the supplemental pre-design investigation, a total of 87 soil samples were collected from 56 locations and submitted to CT&E for analysis of PCBs and/or Appendix IX+3 constituents. Each sample location was surveyed to obtain coordinates consistent with GE's plant survey datum. Figure 2 identifies the supplemental investigation sample locations, along with those locations sampled and analyzed by GE during the pre-design investigation, usable historical soil samples, and locations analyzed by EPA and Berkshire Gas during the pre-design investigation.

2.2 Summary of Supplemental Pre-Design Sampling and Analysis Activities

With a few minor exceptions (discussed later in this section), the sample locations, frequencies, depths, and analytes associated with the supplemental pre-design investigation (provided in Table 1) were consistent with those proposed in the Pre-Design Report, as modified by the April 24, 2003 EPA conditional approval letter. All field and analytical activities conducted by GE were performed in accordance with GE's approved *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP). Soil boring logs are presented in Appendix A of this report.

Soil samples collected by GE for PCB analysis during the supplemental pre-design investigation were analyzed for Aroclor-specific PCBs by EPA Method 8082. The PCB results were reported on a dry-weight basis with a detection limit of approximately 0.05 ppm for all Aroclors. Select GE soil samples were also analyzed for Appendix IX+3 constituents (excluding pesticides and herbicides) utilizing methods and reporting limits consistent with those presented in the

FSP/QAPP. In addition, one soil sample was provided upon request to representatives from Weston for additional analyses on behalf of EPA.

2.3 Modifications to Supplemental Pre-Design Sampling and Analysis Activities

During the performance of the supplemental pre-design investigation, several modifications to the sampling program outlined in the Pre-Design Report, as modified by the April 24, 2003 EPA conditional approval letter, were implemented based on field conditions, investigation results, and/or communications with EPA. The following modifications to the work scope identified in the Pre-Design Report were implemented, each with concurrence of EPA field representatives:

- Under item number 2 of EPA's April 24, 2003 conditional approval letter, EPA noted that boring RAA4-B33 encountered refusal at a depth of 2 feet below grade, apparently on one of the former Berkshire Gas tank pads, and GE was to "sample a new soil boring off the tank pad (as close as possible to location B-33) and collect the samples from the 1- to 6-foot (PCBs and Appendix IX+3) and 6- to 15-foot (PCBs) depth intervals." GE installed boring RAA4-B33E approximately 25 feet east of the B-33 grid node and performed the required sampling.

- Under item number 5 of EPA's April 24, 2003 conditional approval letter, EPA noted that the location of proposed sample RAA4-I3W as shown on Figure 9 of the Pre-Design Report was not directly west of boring RAA4I-3 and GE was to "assess in the field if an additional soil boring could can be advanced directly west of boring I-3 within the fenced area of East Street Area 2-South RAA, and if so, shall install such a boring at a location approved by EPA's field oversight personnel." GE made this assessment in the field and was able to collect a sample west of boring I-3 and between it and the property boundary.

- The following four soil borings were shifted slightly from the locations presented in the Pre-Design Report due to equipment refusal (i.e., subsurface obstructions encountered during drilling) or access restrictions at the proposed location (e.g., presence of subsurface utilities):

Soil Boring	Distance & Direction Moved
RAA4-D26S	15 feet south
RAA4-E22	15 feet south
RAA4-G18N	9 feet south
RAA4-N6	5 feet west
RAA4-O2	5 feet west
RAA4-O10	6 feet east

- Soil boring RAA4-G23 encountered refusal at a depth of 3 feet below ground surface (bgs) during multiple sampling attempts. As a result, the soil sample obtained from the 1- to 3-foot depth interval, instead of the proposed 1- to 6-foot depth interval, was subsequently submitted for PCB analyses.

None of the modifications identified above significantly affects the overall characterization of the soils within East Street Area 2-South. Although samples from some of the proposed supplemental pre-design locations could not be collected as planned, GE did identify and collect alternate sample locations (at the locations described above) at the appropriate depth increments, such that the amount of soil data available to supplement the existing soils data did not vary to any great extent.

2.4 Summary of Available Soil Data

During the supplemental pre-design investigation, GE collected a total of 87 soil samples from 56 locations of which 86 were analyzed for PCBs and 11 were analyzed for Appendix IX+3 constituents. In addition to these soil samples collected and analyzed by GE, GE provided one soil sample to EPA which was analyzed for PCBs and SVOCs. Incorporating these results, the soil data available to support future technical evaluations and the preparation of a Conceptual RD/RA Work Plan for East Street Area 2-South include the results of GE's recent pre-design investigations, as well as data available from prior investigations, data collected by EPA, and data obtained by Berkshire Gas. The following table summarizes the current data set (not including QA/QC analyses, with the exception of field duplicate soil samples) for several constituent groups:

Analytical Parameter	GE Pre-Design Analyses[1]	EPA Pre-Design Analyses	Berkshire Gas Pre-Design Analyses	Historical Soil Analyses	Total Soil Analyses
PCBs	651	254	0	579	1,484
VOCs	195	49	30	110	384
SVOCs	195	113	34	94	436
Pesticides/Herbicides	0	24	0	52	76
PCDDs/PCDFs	216	36	0	38	290
Inorganics	185	111	0	93	389

[1] Includes data from FCRA Pre-Design Report and the Supplemental Pre-Design Investigation.

The locations from which these soil samples were collected are shown on Figure 2. The analytical results for the supplemental soil samples collected by GE are provided in Tables 2 and 3, which provide the results for PCBs and other Appendix IX+3 constituents, respectively. Table 4 provides the results for PCBs and other Appendix IX+3 constituents for the sample analyzed by EPA. A complete listing of the laboratory results are provided in Appendix B. These data, combined with the data presented in GE's Pre-Design Investigation Report, are sufficient for evaluating RD/RA activities for East Street Area 2-South.

2.5 Data Quality Assessment

For the supplemental pre-design activities performed by GE, quality control samples (i.e., matrix spike/matrix spike duplicates, field duplicates, and field blanks) were collected in accordance with the FSP/QAPP. The FSP/QAPP also presents the quality control criteria and corrective action procedures to be followed for each analytical and field-generated quality control sample. Overall project quality assurance was provided by following the procedures for sample collection and analysis, corrective action, and data reporting and validation specified in the FSP/QAPP. Appendix C further describes the quality assessment procedures that were performed for the GE sampling activities.

All of the GE pre-design soil analytical data have undergone data review/validation in accordance with Section 7.5 of the FSP/QAPP. The results of this assessment for the supplemental pre-design samples are summarized in Appendix C. The FSP/QAPP specifies that a minimum of 90% of the analytical data obtained during a given investigation is expected to be verified as usable for investigations conducted in accordance with the FSP/QAPP. As discussed in the data validation report presented in Appendix C, all of GE's supplemental pre-design soil data are considered to be usable.

It is GE's understanding that the analytical results for the soil sample collected and analyzed by EPA was validated by EPA prior to release. Therefore, the data from this sample will be considered acceptable for use in future evaluations pertaining to RD/RA activities.

A summary data package containing analytical results for pre-design soil samples collected between April 25, 2002 and June 5, 2002 and analyzed by Berkshire Gas was received by GE on August 8, 2003 and could not be validated prior to submission of this supplemental report. As discussed in the Pre-Design Report, laboratory-modified analytical methods were utilized for the preparation and analyses of these soil samples. Specifically, the soil samples analyzed for select volatile organic compounds (VOCs) were prepared by Soxhlet extraction using dichloromethane (DCM) (EPA Method 3540) and analyzed using a combination of EPA Methods 8260 and 8270, as modified by the laboratory (META). In addition, some soil samples collected by Berkshire Gas were analyzed for SVOCs using the same combination method (8260/8270) mentioned above and others were analyzed by EPA Method 8270, as modified by the laboratory. These methods differ from those set forth in GE's FSP/QAPP, as approved by EPA. To determine if the results of those sample analyses can be used in future RD/RA evaluations at East Street Area 2-South, the Standard Operating Procedures (SOPs) for the methods used by META and a full CLP-like data package need to be reviewed. GE is currently reviewing the recently-received data packages to determine if the data is usable. The results of that data quality review will be included in the letter report proposed to be submitted in conjunction with the additional investigations to the west of the 60's Complex proposed in Section 3.2 below.

2.6 Assessment of Potential Data Needs

In accordance with Section 3.2 of the SOW, the pre-design reports are required to consider the sufficiency of the available data in terms of supporting subsequent RD/RA activities, and whether any additional or remaining data are needed. If additional data are needed, the pre-design reports are to include a proposal for further studies/investigations, as well as a schedule for such activities and the submission of any supplemental pre-design reports. Upon completion of the pre-design investigation for East Street Area 2-South, GE submitted the Pre-Design Report that identified specific data needs. EPA identified certain issues concerning data, in its April 24, 2003 conditional approval letter. Several of those issues might have potentially lead to additional data needs.

This supplemental pre-design investigation has addressed the data need identified in the Pre-Design Report and, as a result, the available soil analytical data are sufficient (with the exceptions discussed below) to adequately characterize the soil at East Street Area 2-South and support the necessary evaluations for this RAA, including an assessment of current soil conditions and the need for, type of, and scope of response actions to achieve the applicable Performance Standards.

The following subsections address certain issues concerning the data contained in the Pre-Design Report that were identified by EPA in its April 24, 2003 conditional approval letter, and also propose additional investigations outside a portion of the RAA boundary to the west of the 60s Complex.

2.6.1 Discussion of Potential Data Needs Identified by EPA

EPA's April 24, 2003 conditional approval letter raises certain issues concerning apparent disparities in data in the Pre-Design Report and certain other issues concerning elevated detection limits. With regard to apparent disparities, Items 4 and 9 within EPA's April 24, 2003 conditional approval letter discuss four inconsistencies in different presentations of the data within GE's Pre-Design Report. First, pursuant to condition number 4, in Section 2.3 of the Pre-Design Report, GE stated that analysis for Appendix IX+3 constituents was not performed for soil samples collected borings RAA4-E23 and RAA4-M17 from the 0- to 1-foot depth interval. However, Appendix IX+3 results are included for these two samples within Tables 2 and B-1 of that same report. The results presented in Tables 2 and B-1 of the Pre-Design Report were accurate and the text discussion were in error. Therefore, no data are missing from RAA4-E23 or RAA4-M17. Second, EPA noted in condition number 4 that Appendix IX+3 data for soil sample RAA4-I5 collected from the 0- to 1-foot depth increment was not provided in Table 2. Further review of the soil boring logs and analytical data indicates that soil samples were obtained at this soil boring from the depth increments of 0- to 1-foot, 1- to 6-feet, and 6- to 15-feet. Pursuant to the PDI Work Plans, PCB analyses were performed on soil samples from each depth increment, while Appendix IX+3 analyses were conducted only for the soil sample collected from the 6- to 15-foot depth increment. This answers the inquiry posed by EPA.

Third, as noted in condition number 9 of the April 24, 2003 conditional approval letter, the Pre-Design Report included data obtained from the depth increment of 18- to 20-feet at boring 95-07, which is deeper than the maximum depth interval (6- to 15-feet) to be considered for inclusion in future RD/RA evaluations. As such, the results from this sample will not be included in future RD/RA evaluations for this RAA. Fourth, EPA noted in condition number 9(b) that two sets of soil results were included in Table 4 of the Pre-Design Report for sample E2SC-10 (1- to 6-foot depth increment). One set of results indicates that phenolic compounds and PCDD/PCDF compounds were not analyzed, while the second set of results show that these constituents were analyzed. The results for all other constituents listed for each set of results did not change. GE has determined that there were not in fact two sets of data. The second set of results (which contained the results for all analyses, including phenolic compounds and PCDD/PCDF compounds) is the correct data and will be utilized in all future RD/RA evaluations. Neither of these two issues creates any associated data needs.

Item number 10(c) of EPA's April 24, 2003 conditional approval letter refers to elevated detection limits for certain SVOC data. The locations with elevated SVOC detection limits are generally samples that were diluted to delineate high concentrations of certain constituents. Results from undiluted samples (and corresponding lower detection limits) would have been presented for those constituents that did not require dilution to quantitate, if available. However, such data are not available for many historical samples, as some laboratories chose to immediately dilute all samples where they had reason to believe dilution would be necessary, in order to safeguard their equipment. As such, those soil samples have

elevated detection limits reported for several non-detected SVOC constituents. GE has reviewed the data for the soil samples collected that will be used for future RD/RA evaluations and identified the following samples with elevated detection limits for non-detected SVOC constituents.

Averaging Area	Sample ID	Depth Interval (ft)	Reported Detection Limits (ppm)
Historical Samples Collected and Analyzed by GE			
4B	206S	0 – 0.5	570 – 5,500
4B	95-07	2 – 4	49 – 490
4B	E2SC-06	6 – 15	110 – 1,100
4B	X-19	8 – 10	340 – 6,600
4D	211S	0 – 0.5	430 – 5,500

Averaging Area	Sample ID	Depth Interval (ft)	Reported Detection Limits (ppm)
Pre-Design Samples Collected and Analyzed by EPA			
4B	A37	6 – 15	110 – 280
4B	C29	1 – 6	110 – 280
4B	D31	6 – 15	61 – 150
4B	D36	6 – 15	110 – 290
4B	E29	1 – 6	100 – 260
4B	E29	6 – 15	140 – 360
4B	G27	6 – 15	120 – 290
4B	I23	6 – 15	120 – 320
4D	E38	6 – 15	120 – 300

For soil sample 95-07, a dilution factor of 1:5 was used and for soil sample X-19 results are the "best available" from a 1:20 diluted sample and a 1:200 diluted sample. Finally for soil samples 206S and 211S, the dilution factor was 1.0; however, the laboratory misreported the results as mg/kg (ppm) instead of ug/kg (ppb). Therefore, the actual detection limits ranged from 0.57 to 5.5 ppm at location 206S and between 0.43 and 5.5 ppm at location 211S, and thus are within reason for use in future RD/RA evaluations.

EPA has reviewed the data packages for their SVOC analyses listed above. Based on this review, EPA identified that only one analysis was reported in each data package for each sample. Each of these samples were analyzed at a medium level (125-fold dilution), with an additional 5- to 10-fold dilution. Additional evaluation of the sample chromatograms conducted by EPA revealed that that interfering contamination during a portion of the analytical runs prevented the laboratory from obtaining good resolution of certain semivolatile compounds, resulting in elevated detection limits.

As required by EPA, GE will utilize all of the SVOC data initially for Appendix IX+3 evaluations (using the corrected detection limits for samples 206S and 211S). If the results of the evaluations show that remediation may be required

based on non-detect sample results with high limits of detection, however, GE is allowed to propose, subject to EPA approval, an alternate way to handle these constituents in the RD/RA evaluations.. GE intends to conduct this evaluation and, if appropriate, discuss this matter at a technical meeting with EPA prior to submission of the Conceptual RD/RA Work Plan. If those discussions result in a decision to collect additional data, GE will make a proposal to EPA for the collection of such data prior to submitting the Conceptual RD/RA Work Plan.

2.6.2 Discussion of Potential Data Needs Based on Supplemental Pre-Design Investigation

Although the supplemental pre-design investigation addressed the data needs identified within the RAA, additional sampling is proposed outside the boundary to the west of the 60s Complex. Supplemental soil samples were collected at locations RAA4-H3W and RAA4-I3W to delineate the horizontal extent of PCBs to the west of pre-design investigation grid nodes H-3 and I-3, where PCBs were detected in surface soils at concentrations of 50 ppm and 6.5 ppm, respectively. As shown in Table 2, PCB concentrations in the supplemental soil samples were also above 2 ppm in the surface samples (i.e., 6.4 ppm at location RAA4-H3W and 15.1 ppm at location RAA4-I3W). Since the supplemental locations were sampled at the western edge of the RAA boundary, additional sampling outside the RAA appears to be warranted.

To satisfy this data need, GE proposes to collect three surface soil samples from beyond the western boundary of the East Street Area 2-South RAA at the locations illustrated on Figure 3. These soil samples will be collected only from the surface interval (0- to 1-foot) since this is the only interval that exhibited elevated PCB results in prior nearby samples.

3. Future Activities and Schedule

3.1 General

As discussed in Section 2.6.2, some limited additional data needs have been identified that need to be addressed to allow preparation of the Conceptual RD/RA Work Plan for East Street Area 2-South. The additional pre-design soil sampling activities that are proposed to satisfy those data needs, and other remaining pre-design activities, are presented in Section 3.2. Finally, Section 3.3 presents the proposed schedule for future activities and summarizes the anticipated contents of the Conceptual RD/RA Work Plan.

3.2 Additional Activities

GE has identified certain other activities that may or will be performed to support the preparation of the Conceptual RD/RA Work Plan. These activities are described below.

Section 2.6.2 identifies the need for additional surface soil sampling and analysis for PCBs to the west of the new sample locations RAA4-H3W and RAA4-I3W. GE proposes to collect three surface soil samples (0- to 1-foot depth) at the locations shown on Figure 3 to determine if PCBs are present to the west of the current locations. These locations are beyond the boundaries of the East Street Area 2-South RAA. Specifically, samples RAA4-H2 and RAA4-I2 will be collected from Parcel I9-8-4 (824 East Street) and sample RAA4-K2 will be collected from Parcel I9-8-3 (814 East Street) for PCB analyses. Soil borings will only be collected from the surface interval (0- to 1-foot) since this is the only interval that exhibited elevated PCB results in the prior nearby samples. All of these sampling and analysis activities will be conducted in accordance with the procedures set forth in GE's approved FSP/QAPP. The results of these investigations will be presented in a letter report on the schedule described in Section 3.3.

As noted in Section 2.6.1 above, item number 10(c) of EPA's April 24, 2003 conditional approval letter refers to elevated detection limits for certain SVOC data and directs GE to utilize such data initially for Appendix IX+3 evaluations. If the results of the evaluations show that SVOC constituents with high limits of detection may require remediation, however, GE may propose, subject to EPA approval, an alternate way to handle these constituents in the RD/RA evaluations prior to submitting the Conceptual RD/RA Work Plan. GE will conduct the Appendix IX+3 evaluations and, if appropriate, discuss this matter at a technical meeting with EPA prior to submission of the Conceptual RD/RA Work Plan. If those discussions result in a decision to collect additional data, GE will make a proposal to EPA in the same letter report discussed above, to be submitted on the schedule described in Section 3.3.

As discussed in Section 2.5, GE received a data summary package from Berkshire Gas on August 8, 2003 for its data that were originally presented in the PDI Report. GE is conducting a data quality review of the data package in accordance with the procedures provided in Section 7.5 of the FSP/QAPP to determine if the data is usable. A summary of that data quality review will be included in the letter report discussed above.

As noted in the Pre-Design Report, portions of the available site mapping for East Street Area 2-South are not sufficient to support detailed RD/RA evaluations. The current mapping, as depicted on Figure 2 in this report, was primarily generated from aerial photogrammetry mapping conducted in 1990. Although this mapping is useful for identifying prominent features within this RAA (e.g., buildings, roadways, surface water features, etc.) and the approximate locations of the soil sampling locations (as shown on Figure 2), additional detailed site mapping is required to support the development of spatial average PCB concentrations and other RD/RA actions. During preparation of the Conceptual RD/RA Work Plan, GE will review the available surveys to identify where additional information will be required to adequately cover the remainder of this RAA, and such surveys will be performed where necessary to include the following information:

- Existing buildings, structures;
- Paved, gravel and unpaved areas;
- Surface elevations and topography;
- 100-year floodplain demarcation;
- Property boundaries and easements (e.g., utility);
- Selected utilities (e.g., manholes, catch basins, telephone poles, etc.);
- Existing soil sampling locations; and
- Other prominent site features.

The mapping will be compatible with the plant survey datum currently in place for the GE Pittsfield, Massachusetts facility.

During the development of the Conceptual RD/RA Work Plan, the RD/RA evaluations may indicate that soil removal is necessary to achieve the applicable soil-related Performance Standards. Under the CD and SOW, GE has several options available for the disposition of removed materials. To further assess these options and develop the Conceptual RD/RA Work Plan, GE may collect additional soil samples for characterization purposes, specifically to identify whether the subject material(s) are potentially classified as hazardous waste pursuant to EPA's regulations under the Resource Conservation and Recovery Act (RCRA) set forth in 40 CFR 264. If such sampling is identified, GE will follow the procedures established in its *Waste Characterization Plan*, which is a component of the *Project Operations Plan*.

3.3 Schedule for Future Activities

GE proposes to conduct the additional soil investigations described in Section 3.2 and submit the results of those investigations in a letter report within 60 days from receipt of EPA approval of this Supplemental Pre-Design Report or from permission from the property owners to enter the properties to perform the investigations, whichever is later. This schedule assumes that no major weather-related delays are encountered and that no significant additional data needs are identified based on comments from EPA or otherwise. If these or other factors cause a delay in the schedule proposed above, GE will notify EPA and propose for EPA approval a revised schedule for submitting the letter report.

As also discussed in Section 3.2, GE also proposes to evaluate whether certain SVOC data with high limits of detection may lead to a remediation requirement based on constituents reported as non-detect. If they do, GE may discuss this matter at a technical meeting with EPA prior to submission of the Conceptual RD/RA Work Plan. If those discussions result in a decision to collect additional data, GE will propose sampling activities to further evaluate SVOCs. Any such proposal will be included in the same letter report discussed above, which is proposed to be submitted within 60 days from initiation of the additional soil investigations to the west of the 60s Complex.

GE will propose a schedule for submission of the Conceptual RD/RA Work Plan for EPA's approval in the letter report described above, unless the additional data investigation described above reveals the need for yet additional sampling. In that case, the letter report will propose a schedule for the necessary additional investigation activities.

The contents of the Conceptual RD/RA Work Plan will be consistent with Section 3.3 of the SOW and address the following topics:

- Results of the pre-design studies/investigations;
- An evaluation of the areas and depths subject to response actions to meet the PCB-related Performance Standards set forth in the CD and the SOW;
- An evaluation of the need for additional response actions to address non-PCB constituents and (if needed) the type of such response actions;
- An evaluation of other issues that may affect the type and extent of response actions;
- Preliminary plans and specifications to support the response actions;
- Summary of preliminary response action quantities, including soil removal, capping areas, etc.;
- Design assumptions and parameters; and
- Identification of Applicable or Relevant and Appropriate Requirements (ARARs) in accordance with Attachment B to the SOW.

Tables

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TABLE 1
SOIL SAMPLING LOCATIONS
SUPPLEMENTAL PRE-DESIGN INVESTIGATION

EAST STREET AREA 2-SOUTH REMOVAL ACTION AREA
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID	Sample Depth	Nearest Grid Coordinate	Analyses Performed						Comments
			PCBs	VOCs	SVOCs	Metals/ Inorg.	PCDDs/ PCDFs	Rationale	
RAA4-B33E	1-6	B-33	X	X	X	X	X	Complete PDI Sampling	
RAA4-B33E	6-15	B-33	X					Complete PDI Sampling	
RAA4-C30S	0-1	C-30	X					Utility (Storm Sewer/Electrical)	
RAA4-C30S	1-6	C-30	X					Utility (Storm Sewer/Electrical)	
RAA4-C33S	0-1	C-33	X					Utility (Storm Sewer)	
RAA4-C33S	1-6	C-33	X					Utility (Storm Sewer)	
RAA4-D26S	0-1	D-26	X					Utility (Electrical)	Boring moved approximately 15 feet south of original location.
RAA4-D26S	1-6	D-26	X					Utility (Electrical)	
RAA4-E16	0-1	E-16	X					Utility (Storm Sewer)	
RAA4-E16	1-6	E-16	X					Utility (Storm Sewer)	
RAA4-E22	0-1	E-22	X					Utility (Electrical)	Boring moved approximately 15 feet south of original location.
RAA4-E22	1-6	E-22	X					Utility (Electrical)	
RAA4-E30S	0-1	E-30	X					Utility (Storm Sewer)	
RAA4-E30S	1-6	E-30	X					Utility (Storm Sewer)	
RAA4-E38S	0-1	E-38	X					Utility (Storm Sewer)	
RAA4-E38S	1-6	E-38	X					Utility (Storm Sewer)	
RAA4-E41S	0-1	E-41	X					Utility (Storm Sewer)	
RAA4-E41S	1-6	E-41	X					Utility (Storm Sewer)	
RAA4-F16	0-1	F-16	X					Utility (Fire Protection Main)	
RAA4-F16	1-6	F-16	X					Utility (Fire Protection Main)	
RAA4-F18	0-1	F-18	X					Utility (Electrical)	
RAA4-F18	1-6	F-18	X					Utility (Electrical)	
RAA4-F23S	0-1	F-23	X					Utility (Storm Sewer)	
RAA4-F23S	1-6	F-23	X					Utility (Storm Sewer)	
RAA4-F28	0-1	F-28	X					Utility (Storm Sewer)	
RAA4-F28	1-6	F-28	X					Utility (Storm Sewer)	
RAA4-G18N	0-1	G-18	X					Utility (Storm Sewer)	Boring moved approximately 9 feet south of original location.
RAA4-G18N	1-6	G-18	X					Utility (Storm Sewer)	
RAA4-G20	0-1	G-20	X					Utility (Storm Sewer)	
RAA4-G20	1-6	G-20	X					Utility (Storm Sewer)	
RAA4-G23	0-1	G-23	X					Utility (Storm Sewer)	Refusal encountered approximately 3 feet bgs, three additional attempts were made near-by.
RAA4-G23	1-6	G-23	X					Utility (Storm Sewer)	
RAA4-G28	0-1	G-28	X					Utility (Storm Sewer)	
RAA4-G28	1-6	G-28	X					Utility (Storm Sewer)	
RAA4-H3S	0-1	H-3	X					Utility (Storm Sewer/Sanitary Sewer)	

TABLE 1
SOIL SAMPLING LOCATIONS
SUPPLEMENTAL PRE-DESIGN INVESTIGATION

EAST STREET AREA 2-SOUTH REMOVAL ACTION AREA
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID	Sample Depth	Nearest Grid Coordinate	Analyses Performed						Comments
			PCBs	VOCs	SVOCs	Metals/ Inorg.	PCDDs/ PCDFs	Rationale	
RAA4-H3S	1-6	H-3	X					Utility (Storm Sewer/Sanitary Sewer)	
RAA4-H3W	0-1	H-3	X					Boundary Assessment	
RAA4-H12	0-1	H-12	X					Utility (Storm Sewer)	
RAA4-H12	1-6	H-12	X					Utility (Storm Sewer)	
RAA4-H27S	0-1	H-27	X					Utility (Storm Sewer)	
RAA4-H27S	1-6	H-27	X					Utility (Storm Sewer)	
RAA4-H28S	0-1	H-28	X					Utility (Storm Sewer)	
RAA4-H28S	1-6	H-28	X					Utility (Storm Sewer)	
RAA4-I3W	0-1	I-3	X					Boundary Assessment	
RAA4-I7	0-1	I-7	X					Utility (Storm Sewer)	
RAA4-I7	1-6	I-7	X					Utility (Storm Sewer)	
RAA4-J4	0-1	J-4	X					Utility (Storm Sewer/Sanitary Sewer)	
RAA4-J4	1-6	J-4	X					Utility (Storm Sewer/Sanitary Sewer)	
RAA4-K20	0-1	K-20	X					Utility (Storm Sewer/Electrical)	
RAA4-K20	1-6	K-20	X					Utility (Storm Sewer/Electrical)	
RAA4-L11	0-1	L-11	X					200-Foot RRZ Assessment	
RAA4-L12	0-1	L-12	X					200-Foot RRZ Assessment	
RAA4-L13	0-1	L-13	X	X	X	X	X	200-Foot RRZ Assessment	
RAA4-L14	0-1	L-14	X					200-Foot RRZ Assessment	
RAA4-L15	0-1	L-15	X					200-Foot RRZ Assessment	
RAA4-L16	0-1	L-16	X	X	X	X	X	200-Foot RRZ Assessment	
RAA4-L17	0-1	L-17	X					200-Foot RRZ Assessment	
RAA4-M4	0-1	M-4	X					Utility (Storm Sewer)	
RAA4-M4	1-6	M-4	X					Utility (Storm Sewer)	
RAA4-M10	0-1	M-10	X					200-Foot RRZ Assessment	
RAA4-M12	0-1	M-12	X					200-Foot RRZ Assessment	
RAA4-M24	0-1	M-24	X					Utility (Electrical)	
RAA4-M24	1-3	M-24	X					Utility (Electrical)	
RAA4-M24	3-6	M-24	X					Utility (Electrical)	
RAA4-N6	0-1	N-6	X	X	X	X	X	200-Foot RRZ Assessment	Boring moved approximately 5 feet west
RAA4-N7	0-1	N-7	X					200-Foot RRZ Assessment	
RAA4-N10	0-1	N-10	X	X	X	X	X	200-Foot RRZ Assessment	
RAA4-N11	0-1	N-11	X					200-Foot RRZ Assessment	
RAA4-N12	0-1	N-12	X					200-Foot RRZ Assessment	
RAA4-N13	0-1	N-13	X					200-Foot RRZ Assessment	

TABLE 1
SOIL SAMPLING LOCATIONS
SUPPLEMENTAL PRE-DESIGN INVESTIGATION

EAST STREET AREA 2-SOUTH REMOVAL ACTION AREA
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID	Sample Depth	Nearest Grid Coordinate	Analyses Performed						Comments
			PCBs	VOCs	SVOCs	Metals/ Inorg.	PCDDs/ PCDFs	Rationale	
RAA4-N14	0-1	N-14	X	X	X	X	X	200-Foot RRZ Assessment	
RAA4-O2	0-1	O-2	X					200-Foot RRZ Assessment	Boring moved approximately 5 feet west
RAA4-O8	0-1	O-8	X					200-Foot RRZ Assessment	
RAA4-O10	0-1	O-10	X					200-Foot RRZ Assessment	Boring moved approximately 6 feet east
RAA4-O12	0-1	O-12	X					200-Foot RRZ Assessment	
RAA4-P4	0-1	P-4	X					200-Foot RRZ Assessment	
RAA4-P5	0-1	P-5	X	X	X	X	X	200-Foot RRZ Assessment	
RAA4-P7	0-1	P-7	X					200-Foot RRZ Assessment	
RAA4-P8	0-1	P-8	X	X	X	X	X	200-Foot RRZ Assessment	
RAA4-P10	0-1	P-10	X					200-Foot RRZ Assessment	
RAA4-P11	0-1	P-11	X	X	X	X	X	200-Foot RRZ Assessment	Soil sample was collected from the 3- to 6-foot
RAA4-P11	1-3	P-11		X	X	X	X	200-Foot RRZ Assessment	depth interval and provided to EPA as a "Wild
RAA4-P11	3-6	P-11						200-Foot RRZ Assessment	Card" sample for analysis.
RAA4-Q3N	0-1	Q-3	X					Utility (Storm Sewer)	
RAA4-Q3N	1-3	Q-3	X					Utility (Storm Sewer)	
RAA4-Q3N	3-6	Q-3	X					Utility (Storm Sewer)	
RAA4-R5	1-3	R-5	X					Utility (Storm Sewer)	
RAA4-R5	3-6	R-5	X	X	X	X	X	Utility (Storm Sewer)	

Notes:

1. Boundary assessment boring RAA4-I3W was advanced west of the original RAA4-I3 boring location and within the fenced area at a location approved by EPA's field oversight personnel prior to sampling.

TABLE 2
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR PCBs

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
Averaging Area 4A										
RAA4-H3S	0-1	5/21/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.090	0.035 J	0.125
	1-6	5/21/2003	ND(3.7)	ND(3.7)	ND(3.7)	ND(3.7)	ND(3.7)	26	24	50
RAA4-H3W	0-1	5/21/2003	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	6.4	6.4
RAA4-H12	0-1	5/15/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	1.2	1.2
	1-6	5/15/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.30	0.30
RAA4-I3W	0-1	5/21/2003	ND(0.77)	ND(0.77)	ND(0.77)	ND(0.77)	ND(0.77)	11	4.1	15.1
RAA4-I7	0-1	5/15/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.15	0.15
	1-6	5/15/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA4-J4	0-1	5/21/2003	ND(3.7)	ND(3.7)	ND(3.7)	ND(3.7)	ND(3.7)	37	16	53
	1-6	5/21/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.34	0.19	0.53
RAA4-M4	0-1	5/21/2003	ND(0.78)	ND(0.78)	ND(0.78)	ND(0.78)	ND(0.78)	8.0	1.8	9.8
	1-6	5/21/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
Averaging Area 4B										
RAA4-B33E	1-6	5/20/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.46	ND(0.037)	0.46
	6-15	5/20/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA4-C30S	0-1	5/20/2003	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	2.5	2.5
	1-6	5/20/2003	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	0.88	0.88
RAA4-C33S	0-1	5/15/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.87	1.1	1.97
	1-6	5/15/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	1.9	1.9	3.8
RAA4-D26S	0-1	5/21/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.019 J	0.019 J
	1-6	5/21/2003	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	19	19
RAA4-E16	0-1	5/21/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.035 J	0.035 J
	1-6	5/21/2003	ND(0.041) [ND(0.041)]	ND(0.041) [ND(0.041)]	ND(0.041) [ND(0.041)]	ND(0.041) [ND(0.041)]	ND(0.041) [ND(0.041)]	ND(0.041) [ND(0.041)]	0.036 J [0.041 J]	0.036 J [0.041 J]
RAA4-E22	0-1	5/21/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.53	0.64	1.17
	1-6	5/21/2003	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	4.0	3.4	7.4
RAA4-E30S	0-1	5/20/2003	ND(19)	ND(19)	ND(19)	ND(19)	ND(19)	66	130	196
	1-6	5/20/2003	ND(3.9) [ND(3.9)]	ND(3.9) [ND(3.9)]	ND(3.9) [ND(3.9)]	ND(3.9) [ND(3.9)]	ND(3.9) [ND(3.9)]	11 J [23 J]	20 [32]	31 J [55 J]
RAA4-F16	0-1	5/15/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.23	0.23
	1-6	5/15/2003	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [0.068]	ND(0.038) [0.068]
RAA4-F18	0-1	5/21/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.13	0.055	0.185
	1-6	5/21/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA4-F23S	0-1	5/21/2003	ND(18)	ND(18)	ND(18)	ND(18)	ND(18)	ND(18)	220	220
	1-6	5/21/2003	ND(36)	ND(36)	ND(36)	ND(36)	ND(36)	ND(36)	570	570
RAA4-F28	0-1	5/20/2003	ND(19)	ND(19)	ND(19)	ND(19)	ND(19)	ND(19)	550	550
	1-6	5/20/2003	ND(190)	ND(190)	ND(190)	ND(190)	ND(190)	ND(190)	1900	1900
RAA4-G18N	0-1	5/21/2003	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	4.4	1.7	6.1
	1-6	5/21/2003	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	47	ND(3.8)	47
RAA4-G20	0-1	5/21/2003	ND(3.7)	ND(3.7)	ND(3.7)	ND(3.7)	ND(3.7)	ND(3.7)	29	29
	1-6	5/21/2003	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	11	9.1	20.1
RAA4-G23	0-1	5/20/2003	ND(3.6) [ND(1.8)]	ND(3.6) [ND(1.8)]	ND(3.6) [ND(1.8)]	ND(3.6) [ND(1.8)]	ND(3.6) [ND(1.8)]	ND(3.6) [ND(1.8)]	70 J [21 J]	70 J [21 J]
	1-3	5/20/2003	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	22	22
RAA4-G28	0-1	5/20/2003	ND(89)	ND(89)	ND(89)	ND(89)	ND(89)	520	1200	1720
	1-6	5/20/2003	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	380	380
RAA4-H27S	0-1	5/20/2003	ND(37)	ND(37)	ND(37)	ND(37)	ND(37)	640	1600	2240
	1-6	5/20/2003	ND(19)	ND(19)	ND(19)	ND(19)	ND(19)	150	180	330
RAA4-H28S	0-1	5/20/2003	ND(19)	ND(19)	ND(19)	ND(19)	ND(19)	52	120	172
	1-6	5/20/2003	ND(39)	ND(39)	ND(39)	ND(39)	ND(39)	ND(39)	260	260
RAA4-K20	0-1	5/21/2003	ND(19)	ND(19)	ND(19)	ND(19)	ND(19)	160	85	245
	1-6	5/21/2003	ND(3.6)	ND(3.6)	ND(3.6)	ND(3.6)	ND(3.6)	48	17	65

TABLE 2
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR PCBs

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
Averaging Area 4D										
RAA4-E38S	0-1	5/14/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.19	0.19
	1-6	5/14/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	1.7	1.7
RAA4-E41S	0-1	5/14/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.19	0.29	0.48
	1-6	5/14/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
Averaging Area 4E										
RAA4-L11	0-1	5/14/2003	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	1.6	0.55	2.15
RAA4-L12	0-1	5/14/2003	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) [0.019 J]	ND(0.037) [0.019 J]
RAA4-L13	0-1	5/16/2003	ND(0.73)	ND(0.73)	ND(0.73)	ND(0.73)	ND(0.73)	4.5	ND(0.73)	4.5
RAA4-L14	0-1	5/20/2003	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	96	90	186
RAA4-L15	0-1	5/20/2003	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	180	98	278
RAA4-L16	0-1	5/21/2003	ND(19)	ND(19)	ND(19)	ND(19)	ND(19)	180	200	380
RAA4-L17	0-1	5/20/2003	ND(200)	ND(200)	ND(200)	ND(200)	ND(200)	1600	ND(200)	1600
RAA4-M10	0-1	5/14/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.12	0.040	0.16
RAA4-M12	0-1	5/14/2003	ND(0.74)	ND(0.74)	ND(0.74)	ND(0.74)	ND(0.74)	4.6	1.3	5.9
RAA4-M24	0-1	5/21/2003	ND(18)	ND(18)	ND(18)	ND(18)	ND(18)	300	280	580
	1-3	5/21/2003	ND(19)	ND(19)	ND(19)	ND(19)	ND(19)	370	240	610
	3-6	5/21/2003	ND(18)	ND(18)	ND(18)	ND(18)	ND(18)	97	42	139
RAA4-N6	0-1	5/16/2003	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	1.2	1.4	2.6
RAA4-N7	0-1	5/14/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.042	0.044	0.086
RAA4-N10	0-1	5/16/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.11	0.073	0.183
RAA4-N11	0-1	5/14/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.015 J	0.015 J
RAA4-N12	0-1	5/14/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.30	ND(0.038)	0.30
RAA4-N13	0-1	5/14/2003	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	ND(2.1)	10	ND(2.1)	10
RAA4-N14	0-1	5/16/2003	ND(18)	ND(18)	ND(18)	ND(18)	ND(18)	200	ND(18)	200
RAA4-O2	0-1	5/14/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.91	0.84	1.75
RAA4-O8	0-1	5/14/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA4-O10	0-1	5/14/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.039	0.039
RAA4-O12	0-1	5/14/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.60	0.33	0.93
RAA4-P4	0-1	5/14/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA4-P5	0-1	5/16/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.10	0.079	0.179
RAA4-P7	0-1	5/14/2003	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	2.5	1.8	4.3
RAA4-P8	0-1	5/16/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.43	0.19	0.62
RAA4-P10	0-1	5/21/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.82	0.62	1.44
RAA4-P11	0-1	5/20/2003	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	5.4	5.2	10.6
RAA4-Q3N	0-1	5/15/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.30	0.30
	1-3	5/15/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.80	0.38	1.18
	3-6	5/15/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA4-R5	1-3	5/15/2003	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	1.9	1.9
	3-6	5/15/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.16	0.11	0.27

Notes:

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

Data Qualifiers:

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

TABLE 3
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 CONSTITUENTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID:	RAA4-B33E	RAA4-B33E	RAA4-L13	RAA4-L16	RAA4-N6	RAA4-N10
Sample Depth(Feet):	1-6	3-4	0-1	0-1	0-1	0-1
Parameter Date Collected:	05/20/03	05/20/03	05/16/03	05/21/03	05/16/03	05/16/03
Volatile Organics						
Trichloroethene	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene	ND(0.37)	NA	ND(0.37)	0.70	ND(0.40)	ND(0.38)
1,2,4-Trichlorobenzene	ND(0.37)	NA	ND(0.37)	1.2	ND(0.40)	ND(0.38)
2,4-Dimethylphenol	ND(0.37)	NA	ND(0.37)	2.5	0.29 J	0.16 J
2-Methylnaphthalene	ND(0.37)	NA	0.86	0.28 J	ND(0.40)	ND(0.38)
2-Methylphenol	ND(0.37)	NA	0.85	0.27 J	0.81	ND(0.38)
3&4-Methylphenol	ND(0.74)	NA	2.0	0.98	0.40 J	ND(0.76)
Acenaphthene	ND(0.37)	NA	ND(0.37)	ND(0.38)	0.34 J	ND(0.38)
Acenaphthylene	ND(0.37)	NA	0.17 J	ND(0.38)	0.11 J	ND(0.38)
Aniline	ND(0.37)	NA	15	2.3	41	2.8
Anthracene	ND(0.37)	NA	0.43	0.22 J	0.40	0.17 J
Benzo(a)anthracene	0.17 J	NA	1.3	0.48	1.2	0.61
Benzo(a)pyrene	0.14 J	NA	1.2	0.48	1.0	0.53
Benzo(b)fluoranthene	ND(0.37)	NA	1.6	0.96	1.4	0.72
Benzo(g,h,i)perylene	ND(0.37)	NA	0.93	0.67	0.72	0.45
Benzo(k)fluoranthene	0.10 J	NA	0.60	0.27 J	0.53	0.28 J
bis(2-Ethylhexyl)phthalate	ND(0.36)	NA	ND(0.36)	ND(0.37)	ND(0.39)	ND(0.37)
Chrysene	0.17 J	NA	1.3	0.71	1.3	0.77
Dibenzo(a,h)anthracene	ND(0.37)	NA	ND(0.37)	0.20 J	0.14 J	ND(0.38)
Dibenzofuran	ND(0.37)	NA	0.58	0.17 J	0.15 J	0.084 J
Diethylphthalate	ND(0.37)	NA	0.074 J	ND(0.38)	ND(0.40)	ND(0.38)
Dimethylphthalate	ND(0.37)	NA	ND(0.37)	0.19 J	ND(0.40)	ND(0.38)
Di-n-Butylphthalate	ND(0.37)	NA	1.9	0.31 J	3.9	ND(0.38)
Fluoranthene	0.25 J	NA	2.4	0.99	2.8	1.2
Fluorene	ND(0.37)	NA	0.21 J	ND(0.38)	0.23 J	ND(0.38)
Indeno(1,2,3-cd)pyrene	ND(0.37)	NA	0.80	0.54	0.65	0.37 J
Naphthalene	0.13 J	NA	0.64	0.35 J	0.15 J	0.15 J
N-Nitroso-di-n-butylamine	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
Phenanthrene	0.28 J	NA	1.4	0.76	2.0	0.94
Phenol	ND(0.37)	NA	0.80	ND(0.38)	2.6	ND(0.38)
Pyrene	0.46	NA	2.1	0.96	2.3	1.0
Furans						
2,3,7,8-TCDF	0.000036 Y	NA	0.000025 Y	0.00040 Y	0.000029 Y	0.0000087 J
TCDFs (total)	0.00029 QJ	NA	0.00026 QIJ	0.013 I	0.00038	0.000090
1,2,3,7,8-PeCDF	0.000010 J	NA	0.000015 J	0.0016	0.000037	ND(0.0000048) X
2,3,4,7,8-PeCDF	0.000012 J	NA	0.000015 J	0.0017	0.000024 J	0.0000057 J
PeCDFs (total)	0.00014 QJ	NA	0.00022 QIJ	0.014 QJ	0.00054 QJ	0.000055 QIJ
1,2,3,4,7,8-HxCDF	ND(0.0000093) X	NA	0.000024 J	0.0031 I	0.000040	0.0000077 J
1,2,3,6,7,8-HxCDF	ND(0.0000056) X	NA	0.000014 J	0.0015 I	0.000015 J	0.0000048 J
1,2,3,7,8,9-HxCDF	0.0000025 J	NA	0.0000028 J	0.00062	ND(0.0000094)	ND(0.0000019) X
2,3,4,6,7,8-HxCDF	0.0000073 J	NA	0.0000053 J	0.00087	0.000022 J	ND(0.0000040) X
HxCDFs (total)	0.000095	NA	0.000096	0.013 I	0.00038	0.000036
1,2,3,4,6,7,8-HpCDF	0.000037	NA	0.000020 J	0.0023	0.000044	0.000017 J
1,2,3,4,7,8,9-HpCDF	0.0000022 J	NA	0.0000040 J	0.00094	ND(0.0000055) X	ND(0.0000024) X
HpCDFs (total)	0.000069	NA	0.000024	0.0048	0.000083	0.000022
OCDF	0.000024 J	NA	0.000012 J	0.0021	0.000032 J	0.000019 J

TABLE 3
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 CONSTITUENTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	RAA4-B33E 1-6 05/20/03	RAA4-B33E 3-4 05/20/03	RAA4-L13 0-1 05/16/03	RAA4-L16 0-1 05/21/03	RAA4-N6 0-1 05/16/03	RAA4-N10 0-1 05/16/03
Dioxins							
2,3,7,8-TCDD		ND(0.0000033)	NA	ND(0.00000088) X	ND(0.0000072) X	ND(0.0000018)	ND(0.0000012)
TCDDs (total)		ND(0.0000033)	NA	0.0000017 QJ	0.00016	ND(0.0000027)	0.0000099
1,2,3,7,8-PeCDD		ND(0.0000050) X	NA	ND(0.0000026)	ND(0.0012) X	ND(0.000022) X	ND(0.0000037) X
PeCDDs (total)		0.0000017	NA	0.0000034 QJ	0.00027	ND(0.0000044)	0.000011
1,2,3,4,7,8-HxCDD		ND(0.0000027)	NA	ND(0.0000026)	0.000026	ND(0.0000032)	0.0000015 J
1,2,3,6,7,8-HxCDD		0.0000022 J	NA	ND(0.0000012) X	0.000039	ND(0.0000032)	ND(0.0000024) X
1,2,3,7,8,9-HxCDD		ND(0.0000019) X	NA	ND(0.0000026)	0.000034	ND(0.0000032)	ND(0.0000024) X
HxCDDs (total)		0.0000049	NA	0.0000094	0.00054	0.0000096	0.000023
1,2,3,4,6,7,8-HpCDD		0.000016	NA	0.0000056 J	0.00021	ND(0.000018) X	0.000011 J
HpCDDs (total)		0.000028	NA	0.0000056	0.00042	0.000016	0.000023
OCDD		0.00011	NA	ND(0.000056)	0.00049	0.000097	ND(0.000060)
Total TEQs (WHO TEFs)		0.000017	NA	0.000018	0.0022	0.000038	0.0000085
Inorganics							
Antimony		ND(6.00)	NA	ND(6.00)	3.40 B	2.00 B	1.00 B
Arsenic		8.40	NA	7.80	15.0	11.0	25.0
Barium		19.0 B	NA	37.0	200	48.0	73.0
Beryllium		0.160 B	NA	0.220 B	0.280 B	0.220 B	0.400 B
Cadmium		0.160 B	NA	0.820	59.0	0.570	1.20
Chromium		8.30	NA	7.60	22.0	14.0	11.0
Cobalt		9.80	NA	8.40	6.00	8.80	31.0
Copper		30.0	NA	89.0	5800	190	320
Cyanide		2.20 J	NA	0.230	0.160	0.0980 B	0.0980 B
Lead		35.0 J	NA	150	11000	52.0	190
Mercury		0.0630 J	NA	0.170	1.40	0.200	0.170
Nickel		16.0	NA	11.0	25.0	14.0	22.0
Selenium		0.770 J	NA	1.20 J	4.60	1.70 J	1.50 J
Silver		ND(1.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	0.160 B
Sulfide		120	NA	53.0	27.0	30.0	510
Thallium		0.820 B	NA	ND(1.10) J	1.10	1.00 J	ND(1.10) J
Tin		4.70 B	NA	ND(10)	61.0	ND(17)	38.0
Vanadium		6.80	NA	7.60	9.10	23.0	15.0
Zinc		46.0 J	NA	220	710	150	380

TABLE 3
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 CONSTITUENTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	RAA4-N14 0-1 05/16/03	RAA4-P5 0-1 05/16/03	RAA4-P8 0-1 05/16/03	RAA4-P11 0-1 05/20/03
Volatile Organics				
Trichloroethene	ND(0.0055)	0.0039 J	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Semivolatile Organics				
1,2,4,5-Tetrachlorobenzene	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
1,2,4-Trichlorobenzene	1.3	ND(0.38)	ND(0.52)	ND(0.36)
2,4-Dimethylphenol	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
2-Methylnaphthalene	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
2-Methylphenol	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
3&4-Methylphenol	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
Acenaphthene	ND(0.37)	2.3	ND(0.52)	ND(0.36)
Acenaphthylene	ND(0.37)	0.077 J	ND(0.52)	ND(0.36)
Aniline	2.6	2.9	2.7	0.20 J
Anthracene	ND(0.37)	4.1	ND(0.52)	ND(0.36)
Benzo(a)anthracene	0.26 J	11	1.4	0.33 J
Benzo(a)pyrene	0.26 J	6.0	1.3	0.45
Benzo(b)fluoranthene	0.42	10	3.9	0.79
Benzo(g,h,i)perylene	0.29 J	3.8	2.0	0.46
Benzo(k)fluoranthene	0.13 J	2.9	0.98	ND(0.36)
bis(2-Ethylhexyl)phthalate	ND(0.36)	ND(0.37)	0.21 J	ND(0.35)
Chrysene	0.30 J	7.3	2.6	0.58
Dibenzo(a,h)anthracene	ND(0.37)	0.56	0.75	ND(0.36)
Dibenzofuran	ND(0.37)	1.2	ND(0.52)	ND(0.36)
Diethylphthalate	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Dimethylphthalate	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Di-n-Butylphthalate	ND(0.37)	0.49	0.30 J	ND(0.36)
Fluoranthene	0.45	27	1.8	0.53
Fluorene	ND(0.37)	1.8	ND(0.52)	ND(0.36)
Indeno(1,2,3-cd)pyrene	0.23 J	3.4	1.7	0.36
Naphthalene	ND(0.37)	1.2	ND(0.52)	ND(0.36)
N-Nitroso-di-n-butylamine	0.22 J	ND(0.76)	ND(0.76)	ND(0.71)
Phenanthrene	0.25 J	24	0.37 J	0.20 J
Phenol	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Pyrene	0.48	22	1.6	0.46
Furans				
2,3,7,8-TCDF	0.00016 Y	0.000029 Y	0.0000041 J	0.00092 Y
TCDFs (total)	0.0027 I	0.00030 QJ	0.000034	0.0044 I
1,2,3,7,8-PeCDF	0.00012	0.000016 J	ND(0.0000015) X	0.000022 J
2,3,4,7,8-PeCDF	0.00013	0.000018 J	0.0000040 J	0.000049
PeCDFs (total)	0.0020	0.00016 QJ	0.000054	0.0039 I
1,2,3,4,7,8-HxCDF	0.00033	0.000027 J	0.0000034 J	0.000085
1,2,3,6,7,8-HxCDF	0.00016	0.000013 J	ND(0.0000032) X	0.00017
1,2,3,7,8,9-HxCDF	0.000087	ND(0.0000039) X	ND(0.0000017) X	0.000014 J
2,3,4,6,7,8-HxCDF	0.000067	0.0000076 J	0.0000045 J	0.00010
HxCDFs (total)	0.0011	0.00012	0.000062	0.0018 I
1,2,3,4,6,7,8-HpCDF	0.00014	0.000033	0.0000072 J	0.00025
1,2,3,4,7,8,9-HpCDF	0.000078	0.0000071 J	ND(0.0000028)	0.000028
HpCDFs (total)	0.00028	0.000045	0.0000072	0.00056
OCDF	0.00020	0.000033 J	ND(0.0000054) X	0.00014

TABLE 3
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 CONSTITUENTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	RAA4-N14 0-1 05/16/03	RAA4-P5 0-1 05/16/03	RAA4-P8 0-1 05/16/03	RAA4-P11 0-1 05/20/03
Dioxins				
2,3,7,8-TCDD	ND(0.0000017)	ND(0.0000015)	ND(0.0000018)	ND(0.0000036)
TCDDs (total)	ND(0.0000029)	ND(0.0000015)	ND(0.0000022)	ND(0.0000036)
1,2,3,7,8-PeCDD	ND(0.00017) X	ND(0.0000011) X	ND(0.0000026) X	ND(0.000021) X
PeCDDs (total)	ND(0.0000039)	0.0000021 QJ	0.0000035 QJ	ND(0.0000057) QJ
1,2,3,4,7,8-HxCDD	ND(0.0000028)	ND(0.0000027)	ND(0.0000028)	0.0000045 J
1,2,3,6,7,8-HxCDD	ND(0.0000027) X	0.0000021 J	ND(0.0000028)	ND(0.0000060) X
1,2,3,7,8,9-HxCDD	0.0000020 J	ND(0.0000027)	ND(0.0000028)	ND(0.0000061)
HxCDDs (total)	0.000018	0.0000066	ND(0.0000043)	0.000052
1,2,3,4,6,7,8-HpCDD	0.0000090 J	0.0000076 J	0.0000062 J	0.000030
HpCDDs (total)	0.0000090	0.000016	0.0000062	0.000066
OCDD	ND(0.000053)	0.000079	0.000095	0.00013
Total TEQs (WHO TEFs)	0.00024	0.000020	0.0000063	0.00017
Inorganics				
Antimony	ND(6.00)	ND(6.00)	ND(6.00)	0.770 B
Arsenic	8.50	7.60	8.40	7.40
Barium	38.0	54.0	34.0	31.0
Beryllium	0.320 B	0.230 B	0.260 B	0.220 B
Cadmium	0.800	0.990	0.310 B	29.0
Chromium	9.50	10.0	15.0	9.20
Cobalt	17.0	22.0	13.0	8.80
Copper	220	200	46.0	71.0
Cyanide	0.100 B	0.0800 B	0.800	0.0990 J
Lead	120	53.0	32.0	260 J
Mercury	1.20	0.120	0.320	0.0960 J
Nickel	21.0	12.0	8.00	14.0
Selenium	1.00 J	1.30 J	1.40 J	1.40 J
Silver	0.210 B	0.370 B	ND(1.00)	ND(1.00)
Sulfide	18.0	34.0	93.0	28.0
Thallium	ND(1.10) J	ND(1.10) J	ND(1.10) J	1.20
Tin	ND(12)	ND(13)	ND(12)	8.70 B
Vanadium	10.0	14.0	25.0	11.0
Zinc	180	270	28.0	620 J

TABLE 3
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 CONSTITUENTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: Sample Depth(Feet): Parameter Date Collected:	RAA4-P11 1-3 05/20/03	RAA4-R5 3-4 05/15/03	RAA4-R5 3-6 05/15/03
Volatile Organics			
Trichloroethene	ND(0.0054)	ND(0.0058)	NA
Semivolatile Organics			
1,2,4,5-Tetrachlorobenzene	ND(0.36) [ND(0.36)]	NA	ND(0.38)
1,2,4-Trichlorobenzene	ND(0.36) [ND(0.36)]	NA	ND(0.38)
2,4-Dimethylphenol	ND(0.36) [ND(0.36)]	NA	ND(0.38)
2-Methylnaphthalene	ND(0.36) [ND(0.36)]	NA	ND(0.38)
2-Methylphenol	ND(0.36) [ND(0.36)]	NA	ND(0.38)
3&4-Methylphenol	ND(0.73) [ND(0.72)]	NA	ND(0.77)
Acenaphthene	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Acenaphthylene	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Aniline	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Anthracene	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Benzo(a)anthracene	0.27 J [0.40]	NA	0.084 J
Benzo(a)pyrene	0.22 J [0.33 J]	NA	0.12 J
Benzo(b)fluoranthene	0.72 [1.0]	NA	0.086 J
Benzo(g,h,i)perylene	0.26 J [0.69]	NA	0.12 J
Benzo(k)fluoranthene	0.18 J [0.30 J]	NA	0.12 J
bis(2-Ethylhexyl)phthalate	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Chrysene	0.47 [0.64]	NA	0.13 J
Dibenzo(a,h)anthracene	ND(0.36) [0.24 J]	NA	ND(0.38)
Dibenzofuran	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Diethylphthalate	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Dimethylphthalate	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Di-n-Butylphthalate	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Fluoranthene	0.36 J [0.58]	NA	0.12 J
Fluorene	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Indeno(1,2,3-cd)pyrene	0.31 J [0.44]	NA	ND(0.38)
Naphthalene	ND(0.36) [ND(0.36)]	NA	ND(0.38)
N-Nitroso-di-n-butylamine	ND(0.73) [ND(0.72)]	NA	ND(0.77)
Phenanthrene	0.10 J [0.17 J]	NA	0.078 J
Phenol	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Pyrene	0.33 J [0.46]	NA	0.12 J
Furans			
2,3,7,8-TCDF	ND(0.0000052) X [0.0000075 J]	NA	0.000020 Y
TCDFs (total)	0.000043 J [0.000094 J]	NA	0.00014
1,2,3,7,8-PeCDF	0.0000050 J [ND(0.0000054) X]	NA	0.000010 J
2,3,4,7,8-PeCDF	0.0000098 J [0.0000095 J]	NA	0.000014 J
PeCDFs (total)	0.00016 QJ [0.00015]	NA	0.00022
1,2,3,4,7,8-HxCDF	0.000017 J [0.000019 J]	NA	0.000018 J
1,2,3,6,7,8-HxCDF	0.000012 J [0.000012 J]	NA	0.000011 J
1,2,3,7,8,9-HxCDF	0.0000037 J [ND(0.0000037) X]	NA	ND(0.0000046)
2,3,4,6,7,8-HxCDF	0.000019 J [0.000018 J]	NA	0.000019 J
HxCDFs (total)	0.00028 [0.00027]	NA	0.00025
1,2,3,4,6,7,8-HpCDF	0.000050 [0.000039]	NA	0.000042
1,2,3,4,7,8,9-HpCDF	0.0000063 J [0.0000059 J]	NA	0.0000058 J
HpCDFs (total)	0.00011 [0.000081]	NA	0.000098
OCDF	0.000037 J [0.000027 J]	NA	0.000020 J

TABLE 3
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 CONSTITUENTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	RAA4-P11 1-3 05/20/03	RAA4-R5 3-4 05/15/03	RAA4-R5 3-6 05/15/03
Dioxins			
2,3,7,8-TCDD	ND(0.0000022) [ND(0.0000011)]	NA	ND(0.0000019)
TCDDs (total)	ND(0.0000026) [ND(0.0000028)]	NA	ND(0.0000027)
1,2,3,7,8-PeCDD	ND(0.0000038) X [ND(0.0000043) X]	NA	ND(0.0000051) X
PeCDDs (total)	0.0000053 [0.0000044]	NA	0.0000048
1,2,3,4,7,8-HxCDD	0.0000015 J [0.0000018 J]	NA	ND(0.0000028)
1,2,3,6,7,8-HxCDD	0.0000020 J [0.0000023 J]	NA	ND(0.0000032) X
1,2,3,7,8,9-HxCDD	0.0000018 J [ND(0.0000023) X]	NA	ND(0.0000028)
HxCDDs (total)	0.0000099 J [0.000020 J]	NA	0.0000083
1,2,3,4,6,7,8-HpCDD	0.0000076 J [ND(0.0000064) X]	NA	0.000016 J
HpCDDs (total)	0.000017 J [0.0000092 J]	NA	0.000034
OCDD	0.000089 [0.000080]	NA	0.00025
Total TEQs (WHO TEFs)	0.000015 [0.000014]	NA	0.000019
Inorganics			
Antimony	1.00 B [0.840 B]	NA	4.00 B
Arsenic	9.90 [7.70]	NA	17.0
Barium	49.0 [48.0]	NA	92.0
Beryllium	0.350 B [0.350 B]	NA	0.380 B
Cadmium	7.70 [5.70]	NA	1.00
Chromium	17.0 [16.0]	NA	18.0
Cobalt	15.0 [13.0]	NA	8.80
Copper	99.0 [87.0]	NA	780
Cyanide	0.130 J [0.100 J]	NA	0.130
Lead	51.0 J [53.0 J]	NA	140
Mercury	0.0350 J [0.0170 J]	NA	0.0760 B
Nickel	12.0 [10.0]	NA	16.0
Selenium	2.40 J [1.40 J]	NA	2.40 J
Silver	0.150 B [0.120 B]	NA	ND(1.00)
Sulfide	76.0 [71.0]	NA	80.0
Thallium	1.90 [1.40]	NA	1.30 J
Tin	9.70 B [9.80 B]	NA	90.0
Vanadium	29.0 [28.0]	NA	28.0
Zinc	490 J [400 J]	NA	340

TABLE 3
SUPPLEMENTAL PRE-DESIGN INVESTIGATION SOIL SAMPLING DATA FOR APPENDIX IX+3 CONSTITUENTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Notes:

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

Data Qualifiers:

Organics (volatiles, semivolatiles, dioxin/furans)

I - Polychlorinated Diphenyl Ether (PCDPE) Interference.
J - Indicates that the associated numerical value is an estimated concentration.
Q - Indicates the presence of quantitative interferences.
X - Estimated maximum possible concentration.
Y - 2,3,7,8-TCDF results have been confirmed on a DB-225 column.

Inorganics

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

TABLE 4
EPA SOIL SAMPLING DATA FOR PCBS AND APPENDIX IX+3 CONSTITUENTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Location ID: / Sample ID: / Sample Depth(Feet): / Date Collected:	RAA4-P11 / 2S-BH000999-0-0040 / 4-6 / 05/20/03
PCBs		
None Detected		--
Semivolatile Organics		
2-Methylnaphthalene		0.16 J
Anthracene		0.043 J
Benzo(a)anthracene		1.4
Benzo(a)pyrene		1.6
Benzo(b)fluoranthene		5.6
Benzo(g,h,i)perylene		4.4
Benzo(k)fluoranthene		2.3
Chrysene		3.3
Dibenzo(a,h)anthracene		1.7
Dibenzofuran		0.045 J
Fluoranthene		1.8
Indeno(1,2,3-cd)pyrene		3.1
Naphthalene		0.084 J
Phenanthrene		0.47 J
Pyrene		1.3

Notes:

1. Sample collected by BBL and provided to United States Environmental Protection Agency (EPA) subcontractor. Analysis performed by EPA subcontractor laboratory and results provided to GE under a Data Exchange Agreement between GE and EPA.
2. Only detected constituents are summarized.
3. -- Indicates that all constituents for the parameter group were not detected.

Data Qualifiers:

J - Estimated Value.

Figures

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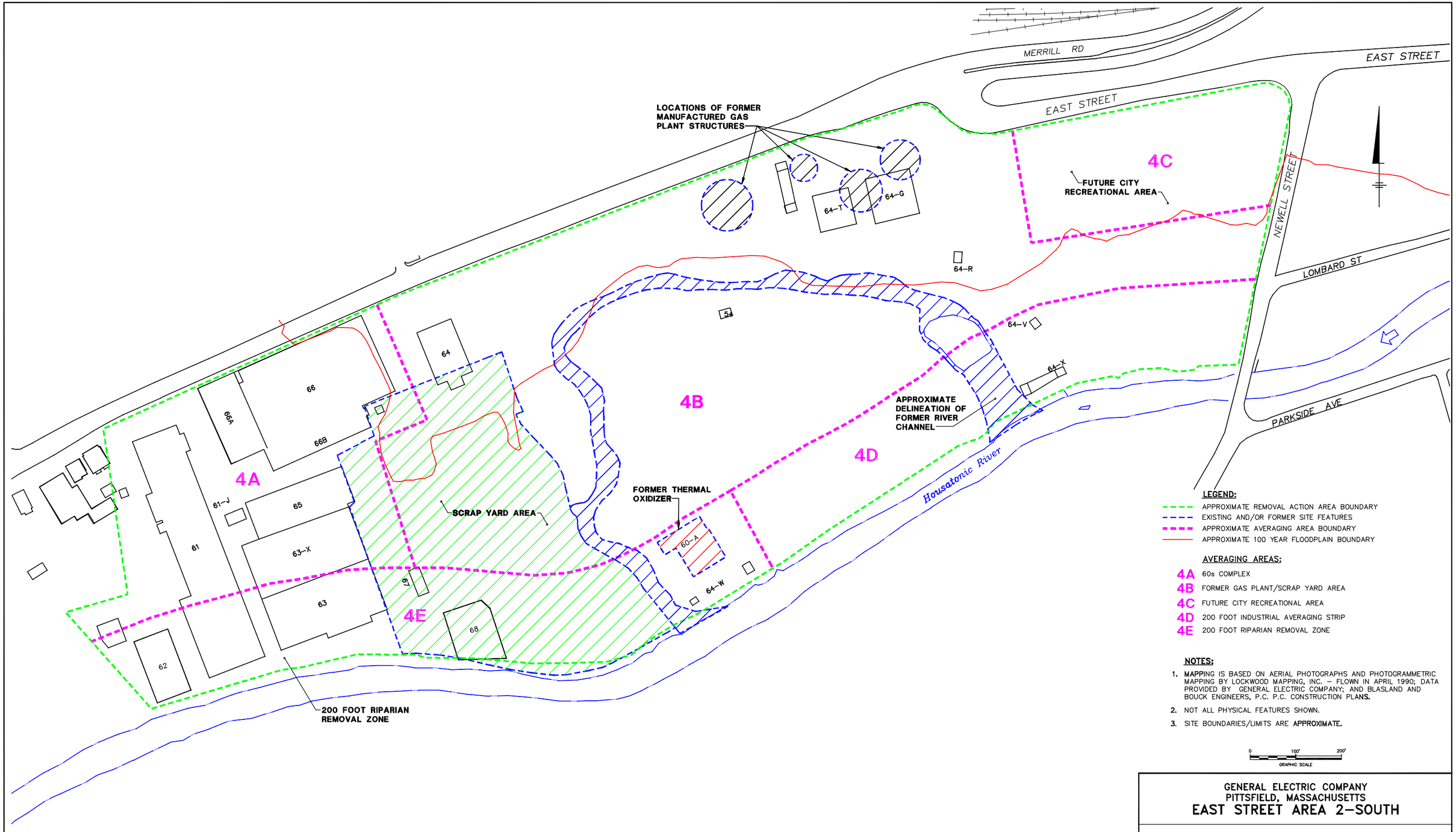

LEGEND:

- APPROXIMATE REMOVAL ACTION AREA BOUNDARY
- EXISTING AND/OR FORMER SITE FEATURES
- APPROXIMATE AVERAGING AREA BOUNDARY
- APPROXIMATE 100 YEAR FLOODPLAIN BOUNDARY

AVERAGING AREAS:

- **4A** 60s COMPLEX
- **4B** FORMER GAS PLANT/SCRAP YARD AREA
- **4C** FUTURE CITY RECREATIONAL AREA
- **4D** 200 FOOT INDUSTRIAL AVERAGING STRIP
- **4E** 200 FOOT RIPARIAN REMOVAL ZONE

NOTES:

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

0 100' 200'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
EAST STREET AREA 2–SOUTH

SITE MAP

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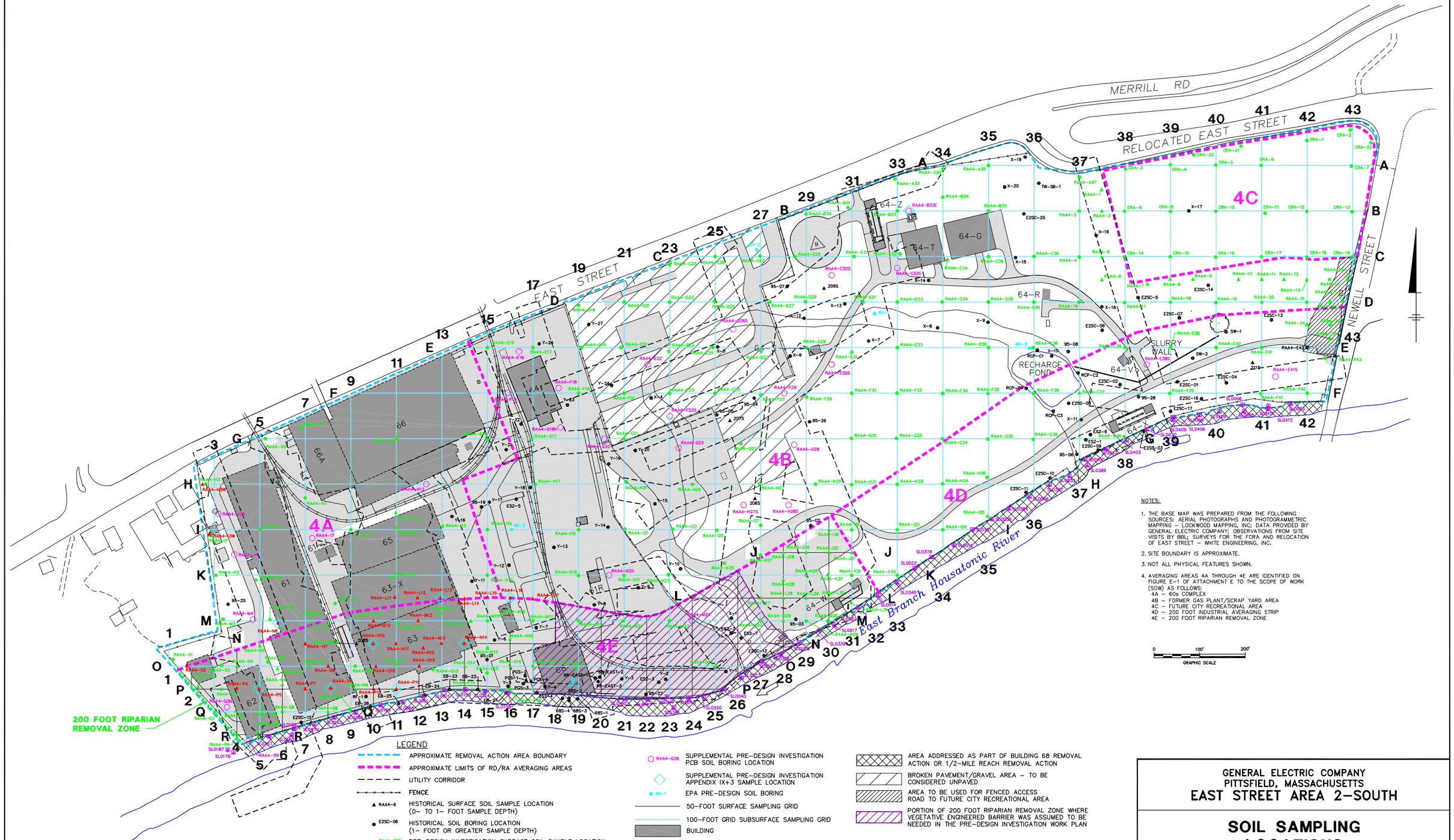
FIGURE
1

L: ON=*, OFF=REF
P: PAGESET/PLT-DL
8/11/03 SYR-54-GMS DJP DMW
N/10111003/SOIL/10111B22.DWG



NOTES:

1. THE BASE MAP WAS PREPARED FROM THE FOLLOWING SOURCES: AERIAL PHOTOGRAPHS AND PHOTOGRAMMETRIC MAPPING – LOCKWOOD MAPPING, INC; DATA PROVIDED BY GENERAL ELECTRIC COMPANY; OBSERVATIONS FROM SITE VISITS BY BBL; SURVEYS FOR THE FCRA AND RELOCATION OF EAST STREET – WHITE ENGINEERING, INC.
2. SITE BOUNDARY IS APPROXIMATE.
3. NOT ALL PHYSICAL FEATURES SHOWN.
4. AVERAGING AREAS 4A THROUGH 4E ARE IDENTIFIED ON FIGURE E-1 OF ATTACHMENT E TO THE SCOPE OF WORK (SOW) AS FOLLOWS:
   - 4A – 60s COMPLEX
   - 4B – FORMER GAS PLANT/SCRAP YARD AREA
   - 4C – FUTURE CITY RECREATIONAL AREA
   - 4D – 200 FOOT INDUSTRIAL AVERAGING STRIP
   - 4E – 200 FOOT RIPARIAN REMOVAL ZONE

0 100' 200'
GRAPHIC SCALE

LEGEND

- APPROXIMATE REMOVAL ACTION AREA BOUNDARY
- APPROXIMATE LIMITS OF RD/RA AVERAGING AREAS
- UTILITY CORRIDOR
- FENCE
- RAA4-6 — HISTORICAL SURFACE SOIL SAMPLE LOCATION (0– TO 1– FOOT SAMPLE DEPTH)
- E2SC-06 — HISTORICAL SOIL BORING LOCATION (1– FOOT OR GREATER SAMPLE DEPTH)
- RAA4-F37 — PRE–DESIGN INVESTIGATION SURFACE SOIL SAMPLE LOCATION
- RAA4-F36 — PRE–DESIGN INVESTIGATION SOIL BORING LOCATION
- SL0403 — EXISTING RIVER BANK SOIL SAMPLE
- RAA4-010 — SUPPLEMENTAL PRE–DESIGN INVESTIGATION PCB SURFACE SOIL SAMPLE LOCATION
- RAA4-028 — SUPPLEMENTAL PRE–DESIGN INVESTIGATION PCB SOIL BORING LOCATION
- SUPPLEMENTAL PRE–DESIGN INVESTIGATION APPENDIX IX+3 SAMPLE LOCATION
- 60-1 — EPA PRE–DESIGN SOIL BORING
- 50–FOOT SURFACE SAMPLING GRID
- 100–FOOT GRID SUBSURFACE SAMPLING GRID
- BUILDING
- PAVED AREA
- BUILDINGS SUBJECT TO FUTURE DEMOLITION
- APPROXIMATE DELINEATION OF FORMER RIVER CHANNEL (FORMER OXBOW H)
- AREA ADDRESSED AS PART OF BUILDING 68 REMOVAL ACTION OR 1/2–MILE REACH REMOVAL ACTION
- BROKEN PAVEMENT/GRAVEL AREA – TO BE CONSIDERED UNPAVED
- AREA TO BE USED FOR FENCED ACCESS ROAD TO FUTURE CITY RECREATIONAL AREA
- PORTION OF 200 FOOT RIPARIAN REMOVAL ZONE WHERE VEGETATIVE ENGINEERED BARRIER WAS ASSUMED TO BE NEEDED IN THE PRE–DESIGN INVESTIGATION WORK PLAN

X: 10111X01.DWG, 10111X04.DWG
L: ON=*, OFF=REF, |DS-TREE, |AREA
|BASEFIELD, |BLDG-DEMO, |BLDG-SHD,
|SHEETASBUILT, |SPPOLY-CENT
P: PAGESET/PLT-DL
8/15/03 SYR-54-NES DMW LAF
N/10111003/SOIL/10111B01.DWG

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
EAST STREET AREA 2–SOUTH

SOIL SAMPLING LOCATIONS

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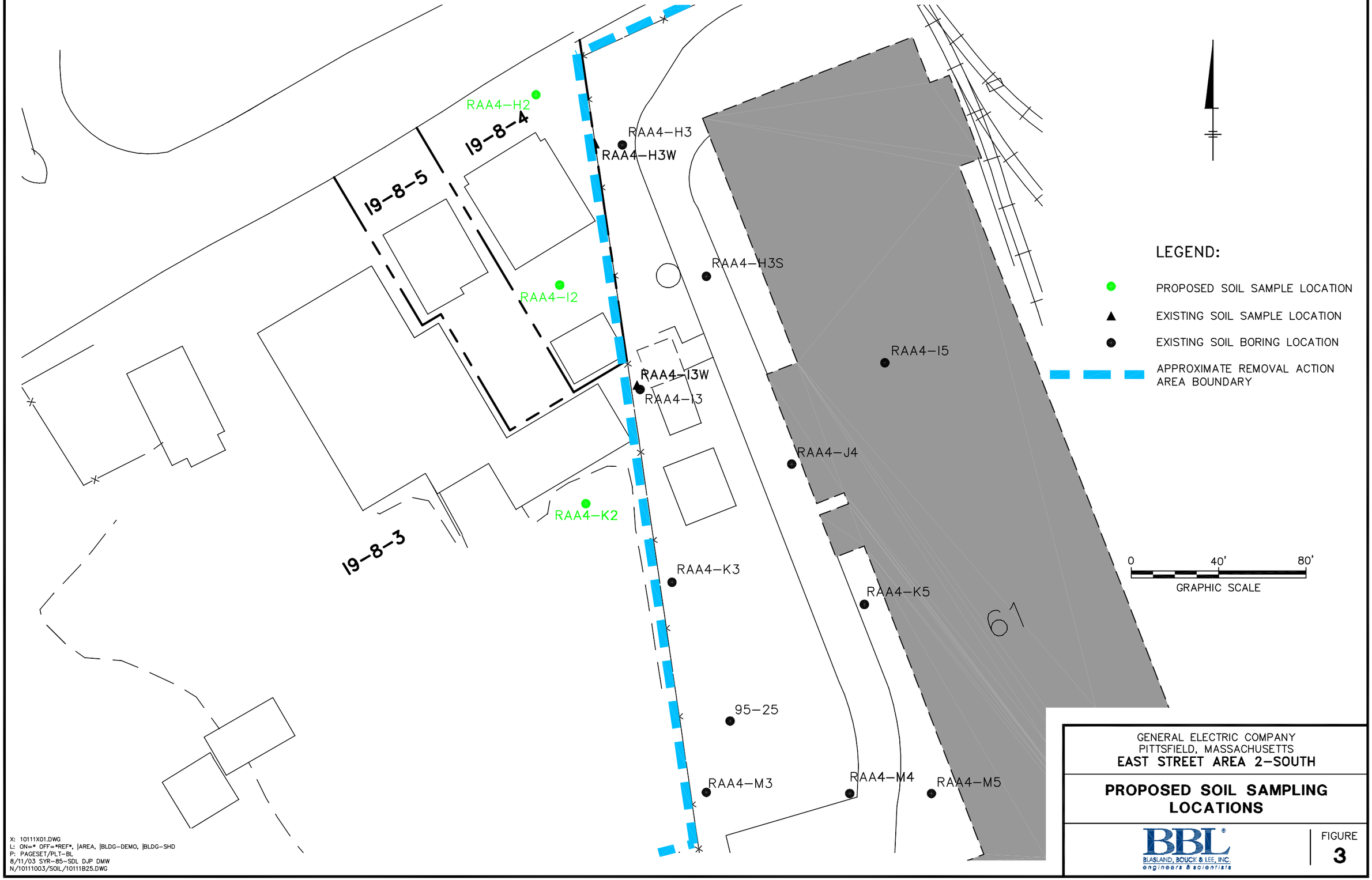
FIGURE 2



X: 10111X01.DWG
L: ON=* OFF=*REF*, |AREA, |BLDG-DEMO, |BLDG-SHD
P: PAGESET/PLT-BL
8/11/03 SYR-85-SDL DJP DMW
N/10111003/SOIL/10111B25.DWG

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
EAST STREET AREA 2-SOUTH

PROPOSED SOIL SAMPLING LOCATIONS

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FIGURE
3

Appendices

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Appendix A

Soil Boring Logs

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TABLE A-1
SUMMARY OF SUPPLEMENTAL SURFACE SOIL SAMPLING

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR
EAST STREET AREA 2 - SOUTH
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Surface Soil Sampling Location	Survey Coordinates			Analyses	Sample Description/Comments
	Northing	Easting	Elevation		
RAA4-H3W	533355.98	131328.60	984.90	PCB	Brown SILT, trace fine Gravel (grass roots)
RAA4-I3W	533247.18	131342.92	984.44	PCB	Brown SILT, trace fine Gravel, trace Brick and Slag fragments (FILL).
RAA4-L11	533108.16	131750.58	984.85	PCB	Gray/brown fine to medium SAND, some fine Gravel.
RAA4-L12	533107.22	131800.57	984.85	PCB	Brown fine to medium SAND and SILT,some fine Gravel.
RAA4-L13	533106.28	131850.56	984.85	PCB/VOC/SVOC/Metals/ Inorganics/PCDD/PCDF	Brown medium to fine SAND,little fine Gravel.
RAA4-L14	533105.17	131903.85	983.89	PCB	Brown coarse to medium SAND, trace fine Gravel.
RAA4-L15	533108.06	131953.57	989.18	PCB	Dark brown SILT some, fine Sand, and fine Gravel
RAA4-L16	533107.01	132003.60	987.05	PCB/VOC/SVOC/Metals/ Inorganics/PCDD/PCDF	Light brown SILT, some black Slag and fine Sand, trace fine Gravel, odor (FILL).
RAA4-L17	533104.72	132053.88	986.59	PCB	Black SILT, some fine Sand, trace fine Gravel, trace Brick fragments (FILL).
RAA4-M10	533056.13	131703.68	984.85	PCB	Brown/black fine to medium SAND, some Silt, trace fine Gravel.
RAA4-M12	533057.23	131801.76	984.85	PCB	Brown fine SAND, some Silt, trace fine Gravel.
RAA4-N6	533051.50	131493.80	984.90	PCB/VOC/SVOC/Metals/ Inorganics/PCDD/PCDF	Brown fine SAND, some Silt, trace fine Gravel.
RAA4-N7	533006.08	131553.95	985.35	PCB	Brown/black fine SAND, some Silt.
RAA4-N10	533006.13	131702.95	984.85	PCB/VOC/SVOC/Metals/ Inorganics/PCDD/PCDF	Brown/black coarse to medium SAND, trace fine Gravel, trace Brick fragments (FILL).
RAA4-N11	533006.39	131752.95	984.85	PCB	Brown fine to medium SAND, some fine Gravel, trace pulverized Brick (FILL).
RAA4-N12	532996.88	131813.20	984.85	PCB	Black/brown fine to medium SAND (FILL).
RAA4-N13	533007.20	131852.95	984.85	PCB	Black/brown fine to medium SAND and SILT (FILL).
RAA4-N14	533007.15	131902.95	984.85	PCB/VOC/SVOC/Metals/ Inorganics/PCDD/PCDF	Brown medium to fine Sand, some Silt, trace fine Gravel.
RAA4-O2	532959.23	131293.76	985.72	PCB	Brown fine to medium SAND and SILT, trace fine Gravel.
RAA4-O8	532956.87	131604.11	985.35	PCB	Brown/black fine to medium SAND, trace fine Gravel and pulverized Brick (FILL).
RAA4-O10	532956.13	131708.95	984.85	PCB	Brown/black fine to medium SAND, some Silt, trace Brick fragments (FILL).

TABLE A-1
SUMMARY OF SUPPLEMENTAL SURFACE SOIL SAMPLING

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR
EAST STREET AREA 2 - SOUTH
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Surface Soil Sampling Location	Survey Coordinates			Analyses	Sample Description/Comments
	Northing	Easting	Elevation		
RAA4-O12	532957.26	131804.14	984.85	PCB	Black fine to medium SAND, some fine Gravel.
RAA4-P4	532908.28	131403.57	984.94	PCB	Brown/black fine to medium SAND and SILT, trace crushed Brick and fine Gravel (FILL).
RAA4-P5	532907.60	131452.33	984.94	PCB/VOC/SVOC/Metals/ Inorganics/PCDD/PCDF	Brown medium to fine Sand, some Silt, trace fine Gravel.
RAA4-P7	532907.36	131553.81	985.35	PCB	Brown/gray fine to medium SAND, some Silt, trace fine Gravel.
RAA4-P8	532909.07	131610.01	985.35	PCB/VOC/SVOC/Metals/ Inorganics/PCDD/PCDF	Black/brown medium to fine SAND, little fine Gravel, trace brick fragments (FILL).
RAA4-P10	532907.09	131703.50	984.23	PCB	Brown fine to medium SAND and SILT,some fine to medium Gravel.

NOTES:

1. The listed samples are for those locations where soil samples were only collected from a depth of 0- to 1-feet below ground surface. For locations where soil samples were collected from the 0- to 1-foot depth interval and subsequent soil samples were collected from deeper intervals, the above information is provided on the respective soil boring log.

2. Analyses:
   PCB = Polychlorinated Biphenyls
   VOC = Volatile Organic Compounds
   SVOC = Semivolatile Organic Compounds
   PCDD/PCDF = Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans

Date Start/Finish: 5/20/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533957.3
Easting: 132878.7
Casing Elevation: NA

Borehole Depth: 6' below grade
Surface Elevation: 996.73

Descriptions By: TOR

Boring ID: RAA4-B33E

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 995	1	0-1	3.7	1.0		Brown SILT and Roots.
	2	1-3		0.3		Brown SILT, some fine Sand, few fine Gravel.
	3	3-4		0.5		Brown SILT with fine Sand.
5 / 990	4	4-6	1.6	0.3		Brown SAND with oxidation, few fine Gravel, trace Silty Clay.
	5	6-8	1.4	0.2		Brown fine SANd and SILT, Metal, Slag, with oxidation, moist.
						Metal Fragments and fine to medium SAND, oxidation.
	6	8-10	2.6	0.4		Brown fine SAND with Silt, few fine Gravel.
						Fine SAND, oxidation.
10 / 985	7	10-12		0.5		Fine SAND with fine Gravel.
	8	12-14	2.0	0.2		
15	9	14-15		0.2		

Boring Construction: Borehole backfilled with Bentonite.

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 1-6': PCBs, VOCs, SVOCs, Metals, PCDDs/PCDFs; 6-15': PCBs.

Date Start/Finish: 5/20/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533815.9
Easting: 132709.8
Casing Elevation: NA

Borehole Depth: 6' below grade
Surface Elevation: 994.58

Descriptions By: AMB

Boring ID: RAA4-C30S

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995 / 0	1	0-1	3.3	0.9		Brown SILT, black metal slag, trace fine Gravel.	Borehole backfilled with Bentonite.
						No Slag below 1.0' bgs.	
	2	1-3		0.9		Black ASH, Slag, some fine Sand.	
	3	3-4		0.2		Black SILT and fine SAND, trace Ash and fine Gravel.	
990 / 5	4	4-6	1.4	0.5			
985 / 10							
980 / 15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.

Date Start/Finish: 5/15/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533832.1
Easting: 132853.6
Casing Elevation: NA

Borehole Depth: 6' below grade
Surface Elevation: 994.61

Descriptions By: AMB

Boring ID: RAA4-C33S

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995							
0	1	0-1		0.9		Brown-black fine to medium SAND, trace Coal.	Borehole backfilled with Bentonite.
	2	1-3	2.6	4.8		Black COAL (FILL), petroleum odor.	
	3	3-4		7.9			
990	4	4-6	1.7	8.3		Powdered Brick below 4.0'.	
5							
985							
10							
980							
15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.
MS/MSD collected (PCBs, 0-1').

Date Start/Finish: 5/21/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533711.7
Easting: 132488.9
Casing Elevation: NA

Borehole Depth: 6.0' below grade
Surface Elevation: 989.55

Descriptions By: TOR

Boring ID: RAA4-D26S

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
990							
0	1	0-1	2.7	0.1		Light brown SILT, fine SAND and fine GRAVEL.	Borehole backfilled with Bentonite.
	2	1-3		0.1		Dark brown SILT and fine SAND, Wood chips, little Concrete and Brick.	
	3	3-4		0.1		Fine GRAVEL and fine SAND.	
985	4	4-6	1.2	0.7		Brown SILT, fine SAND and fine GRAVEL.	
5							
980							
10							
975							
15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.

Date Start/Finish: 5/21/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533631.9
Easting: 132029.3
Casing Elevation: NA

Borehole Depth: 6.0' below grade
Surface Elevation: 997.64

Descriptions By: TOR

Boring ID: RAA4-E16

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
1000						
0	1	0-1	2.2	0.0		CONCRETE.
						Brown Clayey SILT and fine GRAVEL.
	2	1-3		0.0		Brown fine SAND.
995						Brown Clayey SILT, some fine Sand.
	3	3-4		0.0		
5	4	4-6	1.8	0.0		Fine SAND and medium GRAVEL.
990						
10						
985						
15						

Boring Construction: Borehole backfilled with Bentonite.

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.
Duplicate sample ID: RAA4-DUP-5 (PCBs; 1-6').

Date Start/Finish: 5/21/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533630.7
Easting: 132301.0
Casing Elevation: NA

Borehole Depth: 6.0' below grade
Surface Elevation: 992.83

Descriptions By: TOR

Boring ID: RAA4-E22

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995							
0	1	0-1	2.5	0.0		Light brown SILT, fine SAND and GRAVEL.	Borehole backfilled with Bentonite.
						Dark brown SILT and fine GRAVEL, Brick.	
						Black SILT and fine GRAVEL, odor.	
	2	1-3		0.0		Black to brown SILT and fine GRAVEL, Copper wire, Concrete.	
990	3	3-4		0.0			
	4	4-6	1.1	0.0		Mixed fine SAND and fine GRAVEL, SLAG, Brick, Washer.	
5							
985							
10							
980							
15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.

Date Start/Finish: 5/20/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533620.2
Easting: 132709.4
Casing Elevation: NA

Borehole Depth: 6' below grade
Surface Elevation: 982.36

Descriptions By: AMB

Boring ID: RAA4-E30S

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985							
0	1	0-1	2.3	0.9		Light brown SILT, some fine SAND, few fine Gravel, strong odor.	Borehole backfilled with Bentonite.
	2	1-3		1.9			
980	3	3-4		1.6			
5	4	4-6	1.8	1.6		Brick and Wood pieces, wet at 4.0'.	
975							
10							
970							
15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.
Duplicate sample ID: RAA4-DUP-3 (PCBs, 1-6')

Date Start/Finish: 5/15/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533557.7
Easting: 131999.0
Casing Elevation: NA

Borehole Depth: 6' below grade
Surface Elevation: 994.11

Descriptions By: AMB

Boring ID: RAA4-F16

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995							
0	1	0-1		0.5		Brown/black fine to medium SAND, trace fine Gravel and Brick.	Borehole backfilled with Bentonite.
	2	1-3	2.7	0.0		Brown fine SAND and SILT, trace fine Gravel.	
	3	3-4		0.0			
990	4	4-6	1.7	0.0			
5							
985							
10							
980							
15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.
Duplicate sample ID: RAA4-DUP-2 (PCBs, 1-6');
MS/MSD collected(PCBs, 1-6').

Date Start/Finish: 5/21/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533568.2
Easting: 132110.3
Casing Elevation: NA

Borehole Depth: 6.0' below grade
Surface Elevation: 995.39

Descriptions By: TOR

Boring ID: RAA4-F18

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 / 995	1	0-1	3.1	0.0		CONCRETE.	Borehole backfilled with Bentonite.
	2	1-3		0.0		Black SILT with fine Sand and fine Gravel, Slag. Brick below 1.8' bgs.	
	3	3-4		0.0		Brown SILT, fine SAND and fine GRAVEL.	
5 / 990	4	4-6	1.5	0.0		FILL consisting of Slag, Furnace Brick, and Brick Brown SILT, some fine Sand.	
10 / 985							
15 / 980							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.

Date Start/Finish: 5/21/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533506.4
Easting: 132354.0
Casing Elevation: NA

Borehole Depth: 6.0' below grade
Surface Elevation: 987.54

Descriptions By: TOR

Boring ID: RAA4-F23S

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
990							
0	1	0-1	3.2	0.1		Brown SILT.	Borehole backfilled with Bentonite.
						Brown SILT and fine GRAVEL.	
	2	1-3		0.3		Brown fine SAND, few fine Gravel.	
985						Dark brown SILT, some fine Sand and fine Gravel.	
	3	3-4		8.0		Black ASH, SLAG and Press Board.	
5	4	4-6	1.2	73		Black SILT, fine SAND and fine GRAVEL, Slag.	
980							
10							
975							
15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.

Date Start/Finish: 5/20/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533556.6
Easting: 132605.7
Casing Elevation: NA

Borehole Depth: 6.0' below grade
Surface Elevation: 984.93

Descriptions By: TOR

Boring ID: RAA4-F28

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 / 985	1	0-1	2.1	5.8		Light brown SILT with fine Sand, few fine Gravel, Grass, and Brick.	Borehole backfilled with Bentonite.
	2	1-3		30.7			
	3	3-4		11.6			
5 / 980	4	4-6	1.2	8.4			
10 / 975							
15 / 970							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.

Date Start/Finish: 5/21/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533490.5
Easting: 132112.3
Casing Elevation: NA

Borehole Depth: 6.0' below grade
Surface Elevation: 993.12

Descriptions By: TOR

Boring ID: RAA4-G18N

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995							
0	1	0-1	2.5	0.0		FILL consisting of Concrete, medium Gravel, fine Sand, and Silt.	Borehole backfilled with Bentonite.
						Brown fine SAND and fine GRAVEL.	
	2	1-3		0.0		Black fine SILT, some Gravel (Slag).	
						Brown fine SAND and SILT with Glass and Brick fragments.	
990	3	3-4		0.0		Black fine SILT, some Gravel (Slag).	
5	4	4-6	1.3	0.0		FILL consisting of Slag, Wood, Bricks, Metal, and fine Sand.	
985							
10							
980							
15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.

Date Start/Finish: 5/21/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533457.2
Easting: 132210.3
Casing Elevation: NA

Borehole Depth: 6.0' below grade
Surface Elevation: 989.18

Descriptions By: TOR

Boring ID: RAA4-G20

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
990						
0	1	0-1	2.6	0.0		Brown SILT with fine Sand, few fine Gravel.
	2	1-3		0.5		Black SILT, few fine Sand and fine Gravel, Slag.
	3	3-4		0.2		Black to purple SILT and fine SAND.
985	4	4-6	1.8	0.1		Brown SILT, few fine Gravel, trace Brick.
5						
980						
10						
975						
15						

Boring Construction: Borehole backfilled with Bentonite.

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.

Date Start/Finish: 5/20/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533436.9
Easting: 132373.6
Casing Elevation: NA

Borehole Depth: 3.0' below grade
Surface Elevation: 986.65

Descriptions By: TOR

Boring ID: RAA4-G23

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	1	0-1	2.0	0.6		CONCRETE.	Borehole backfilled with Bentonite.
						Brown SILT with fine Sand, few fine Gravel and Wood chips.	
985	2	1-3		0.8		Brown Clayey SILT.	
5							
980							
10							
975							
15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-3': PCBs.
Duplicate sample ID: RAA4-DUP-4 (PCBs, 0-1').

Date Start/Finish: 5/20/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533443.8
Easting: 132627.1
Casing Elevation: NA

Borehole Depth: 6' below grade
Surface Elevation: 985.93

Descriptions By: AMB

Boring ID: RAA4-G28

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 985	1	0-1	3.9	1.3		Light brown SILT, some fine Sand, few fine Gravel and Glass.
	2	1-3		3.4		
	3	3-4		1.8		Dark brown to black SILT, Slag, Brick, and Wood chunks.
5 / 980	4	4-6	1.2	1.3		Black SILT and SAND, trace Wood chips and fine Gravel, strong odor.
10 / 975						
15 / 970						

Boring Construction: Borehole backfilled with Bentonite.

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.
MS/MSD collected (PCBs, 0-1')

Date Start/Finish: 5/15/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533357.2
Easting: 131819.6
Casing Elevation: NA

Borehole Depth: 5' below grade
Surface Elevation: 988.17

Descriptions By: AMB

Boring ID: RAA4-H12

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
990							
0	1	0-1	2.0	0.0		Brown fine to medium SAND, little Silt and fine Gravel.	Borehole backfilled with Bentonite.
	2	1-3		0.0			
985	3	3-4		0.0			
5	4	4-5	1.0	0.0		Brown fine SAND and SILT, trace fine Gravel.	
980							
10							
975							
15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-5': PCBs.

Date Start/Finish: 5/20/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533311.6
Easting: 132516.3
Casing Elevation: NA

Borehole Depth: 6.0' below grade
Surface Elevation: 985.62

Descriptions By: TOR

Boring ID: RAA4-H27S

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 / 985	1	0-1	2.5	34.5		Dark brown SILT and fine SAND, little medium Gravel, Organics.	Borehole backfilled with Bentonite.
						CONCRETE.	
	2	1-3		0.9		Red-dyed SILT and fine SAND.	
						CONCRETE.	
						Light brown SILT with fine Gravel, damp.	
	3	3-4		1.2			
5 / 980	4	4-6	1.2	1.1		Light brown SILT with medium Gravel and medium Sand.	
10 / 975							
15 / 970							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.

Date Start/Finish: 5/20/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533311.3
Easting: 132615.0
Casing Elevation: NA

Borehole Depth: 6.0' below grade
Surface Elevation: 985.79

Descriptions By: TOR

Boring ID: RAA4-H28S

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 985	1	0-1	3.3	1.0		Light brown fine SAND and SILT with fine Gravel.
	2	1-3		2.1		Brown SILT to fine SAND with fine Gravel, trace miscellaneous Metal objects.
	3	3-4		225		Black SILT, Wood fragments, Brick, Metal, Rubber piece, strong odor.
5 / 980	4	4-6	1.2	1500		Reddish fine SAND, Rubber, very strong turbintine-type smell.
10 / 975						
15 / 970						

Boring Construction: Borehole backfilled with Bentonite.

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.

Date Start/Finish: 5/21/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533297.1
Easting: 131373.5
Casing Elevation: NA

Borehole Depth: 6.0' below grade
Surface Elevation: 984.49

Descriptions By: TOR

Boring ID: RAA4-H3S

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985 / 0	1	0-1	3.2	0.0		Brown SILT, Fine Gravel, Grass, Roots, and Clay.	Borehole backfilled with Bentonite.
						Brown fine SAND, Slag.	
	2	1-3		1.3		Brown fine Sand with Brick.	
	3	3-4		0.2		Gray fine SAND, moist.	
980 / 5	4	4-6	1.6	0.5		SLAG with fine Sand.	
975 / 10							
970 / 15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.

Date Start/Finish: 5/15/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533238.7
Easting: 131569.3
Casing Elevation: NA

Borehole Depth: 6' below grade
Surface Elevation: 983.94

Descriptions By: AMB

Boring ID: RAA4-I7

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985							
0	1	0-1	2.7	0.0		Brown fine to medium SAND, some Silt, trace fine Gravel.	Borehole backfilled with Bentonite.
	2	1-3		0.0		Gray brown fine SAND, trace fine Gravel and Coal.	
	3	3-4		0.3			
980	4	4-6	2.0	0.0		Brown Silty fine SAND, some fine Gravel.	
5							
975							
10							
970							
15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.

Date Start/Finish: 5/21/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533209.1
Easting: 131414.8
Casing Elevation: NA

Borehole Depth: 6.0' below grade
Surface Elevation: 984.17

Descriptions By: TOR

Boring ID: RAA4-J4

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985							
0	1	0-1	2.3	0.0		Brown SILT and fine SAND, Grass, Roots, few Gravel.	Borehole backfilled with Bentonite.
						SLAG and fine SAND.	
	2	1-3		1.3		SLAG with brown fine Sand and Silt.	
	3	3-4		0.1		SLAG and brown SILT, few fine Gravel.	
980	4	4-6	1.2	14.4			
5							
975							
10							
970							
15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.

Date Start/Finish: 5/21/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533157.4
Easting: 132221.0
Casing Elevation: NA

Borehole Depth: 6.0' below grade
Surface Elevation: 985.41

Descriptions By: TOR

Boring ID: RAA4-K20

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 985	1	0-1	2.6	0.1		CONCRETE.
						Brown SILT, few fine Gravel.
	2	1-3		4.5		Black SILT, some Clay.
						Brown medium SAND, Brick.
						Brown medium SAND to black SILT, Brick, Wood.
	3	3-4		18.2		
5 / 980	4	4-6	1.3	8.0		CONCRETE.
						FILL consisting of black Slag, Ash, Insulator parts, odor.
10 / 975						
15 / 970						

Boring Construction: Borehole backfilled with Bentonite.

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.

Date Start/Finish: 5/21/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533056.9
Easting: 132403.8
Casing Elevation: NA

Borehole Depth: 6.0' below grade
Surface Elevation: 985.16

Descriptions By: TOR

Boring ID: RAA4-M24

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 985	1	0-1	2.8	0.3		CONCRETE.
						Brown Clayey SILT, few fine Gravel, trace fine Sand.
						GRAVEL.
	2	1-3		1.2		Brown SILT and BRICK, few fine Gravel.
						Black SLAG and BRICK.
	3	3-4		1.0		Brown SILT and fine SAND, few medium Sand.
						Red-brown SILT and fine SAND, Insulator.
5 / 980	4	4-6	1.1	3.8		Brown fine SAND, Glass, few fine Gravel.
10 / 975						
15 / 970						

Boring Construction: Borehole backfilled with Bentonite.

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-6': PCBs.

Date Start/Finish: 5/21/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 533030.0
Easting: 131439.1
Casing Elevation: NA

Borehole Depth: 6.0' below grade
Surface Elevation: 983.98

Descriptions By: TOR

Boring ID: RAA4-M4

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985							
0	1	0-1	3.0	0.4		Brown SILT, few fine Gravel, Roots.	Borehole backfilled with Bentonite.
	2	1-3		0.6		SLAG, trace fine Sand and Silt.	
	3	3-4		4.3			
980	4	4-6	1.2	3.1		Orange-brown SILT, SLAG and fine SAND.	
5							
975							
10							
970							
15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.

Date Start/Finish: 5/20/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 532907.0
Easting: 131753.7
Casing Elevation: NA

Borehole Depth: 6.0' below grade
Surface Elevation: 983.99

Descriptions By: TOR

Boring ID: RAA4-P11

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985							
0	1	0-1	2.9	0.6		CONCRETE.	Borehole backfilled with Bentonite.
						Black to brown fine SAND.	
	2	1-3		4.4		Brown to orange SLAG and fine SAND.	
	3	3-4		0.9			
980							
5	4	4-6	1.2	1.0		Black to brown SILT to fine SAND and fine GRAVEL, 2" Copper wire.	
975							
10							
970							
15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs, VOCs, SVOCs, Metals, PCDDs/PCDFs;
1-3': PCBs, VOCs, SVOCs, Metals, PCDDs/PCDFs;
Duplicate sample ID: RAA4-Dup-1 (0-1': VOCs; 1-3': SVOCs, Metals, PCDDs/PCDFs);
MS/MSD collected (0-1': SVOCs, Metals, PCDDs/PCDFs; 1-3': VOCs).

Date Start/Finish: 5/15/03
Drilling Company: BBL
Driller's Name: JTB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 532871.0
Easting: 131379.3
Casing Elevation: NA

Borehole Depth: 6' below grade
Surface Elevation: 985.47

Descriptions By: AMB

Boring ID: RAA4-Q3N

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 / 985	1	0-1	3.0	0.0		Brown fine to medium SAND and GRAVEL.	Borehole backfilled with Bentonite.
	2	1-3		0.8		Black/red BRICK and COAL.	
	3	3-4		0.8			
5 / 980	4	4-6	2	0.8			
10 / 975							
15 / 970							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.

Date Start/Finish: 5/15/03
Drilling Company: BBL
Driller's Name: JAB
Drilling Method: Direct Push
Auger Size: NA
Rig Type: Tractor-mounted Power Probe
Sample Method: 4' Macrocore

Northing: 532793.8
Easting: 131430.9
Casing Elevation: NA

Borehole Depth: 6' below grade
Surface Elevation: 984.39

Descriptions By: AMB

Boring ID: RAA4-R5

Client: General Electric Company

Location: East Street Area 2 - South

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985							
0	1	0-1	2.5	0.8		Brown fine to medium SAND, trace Brick.	Borehole backfilled with Bentonite.
	2	1-3		0.7		Black fine to medium SAND, trace Coal.	
	3	3-4		0.6			
980	4	4-6	1.7	0.5			
5							
975							
10							
970							
15							

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Remarks: bgs = below ground surface; NA = Not Applicable/Available.
Analyses: 0-1': PCBs; 1-6': PCBs.

Appendix B

Analytical Results

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TABLE B-1
SUPPLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR APPENDIX IX+3 ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	RAA4-B33E 1-6 05/20/03	RAA4-B33E 3-4 05/20/03	RAA4-L13 0-1 05/16/03	RAA4-L16 0-1 05/21/03	RAA4-N6 0-1 05/16/03	RAA4-N10 0-1 05/16/03
Volatile Organics						
1,1,1,2-Tetrachloroethane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
1,1,1-Trichloroethane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
1,1,2,2-Tetrachloroethane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
1,1,2-Trichloroethane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
1,1-Dichloroethane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
1,1-Dichloroethene	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
1,2,3-Trichloropropane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
1,2-Dibromo-3-chloropropane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
1,2-Dibromoethane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
1,2-Dichloroethane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
1,2-Dichloropropane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
1,4-Dioxane	NA	ND(0.11) J	ND(0.11) J	ND(0.11) J	ND(0.12) J	ND(0.11) J
2-Butanone	NA	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.011)
2-Chloro-1,3-butadiene	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
2-Chloroethylvinylether	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
2-Hexanone	NA	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.011)
3-Chloropropene	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
4-Methyl-2-pentanone	NA	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.011)
Acetone	NA	ND(0.022) J	ND(0.022)	ND(0.022) J	ND(0.024)	ND(0.023)
Acetonitrile	NA	ND(0.11) J	ND(0.11) J	ND(0.11) J	ND(0.12) J	ND(0.11) J
Acrolein	NA	ND(0.11) J	ND(0.11) J	ND(0.11) J	ND(0.12) J	ND(0.11) J
Acrylonitrile	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Benzene	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Bromodichloromethane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Bromoform	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Bromomethane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Carbon Disulfide	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Carbon Tetrachloride	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Chlorobenzene	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Chloroethane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Chloroform	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Chloromethane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
cis-1,3-Dichloropropene	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Dibromochloromethane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Dibromomethane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Dichlorodifluoromethane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Ethyl Methacrylate	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Ethylbenzene	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Iodomethane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Isobutanol	NA	ND(0.11) J	ND(0.11) J	ND(0.11) J	ND(0.12) J	ND(0.11) J
Methacrylonitrile	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Methyl Methacrylate	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Methylene Chloride	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Propionitrile	NA	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.011)
Styrene	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Tetrachloroethene	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Toluene	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
trans-1,2-Dichloroethene	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
trans-1,3-Dichloropropene	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
trans-1,4-Dichloro-2-butene	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Trichloroethene	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Trichlorofluoromethane	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Vinyl Acetate	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Vinyl Chloride	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)
Xylenes (total)	NA	ND(0.0055)	ND(0.0055)	ND(0.0056)	ND(0.0060)	ND(0.0057)

TABLE B-1
SUPPLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR APPENDIX IX+3 ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	RAA4-B33E 1-6 05/20/03	RAA4-B33E 3-4 05/20/03	RAA4-L13 0-1 05/16/03	RAA4-L16 0-1 05/21/03	RAA4-N6 0-1 05/16/03	RAA4-N10 0-1 05/16/03
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene	ND(0.37)	NA	ND(0.37)	0.70	ND(0.40)	ND(0.38)
1,2,4-Trichlorobenzene	ND(0.37)	NA	ND(0.37)	1.2	ND(0.40)	ND(0.38)
1,2-Dichlorobenzene	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
1,2-Diphenylhydrazine	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
1,3,5-Trinitrobenzene	ND(0.37) J	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
1,3-Dichlorobenzene	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
1,3-Dinitrobenzene	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
1,4-Dichlorobenzene	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
1,4-Naphthoquinone	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
1-Naphthylamine	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
2,3,4,6-Tetrachlorophenol	ND(0.37) J	NA	ND(0.37) J	ND(0.38) J	ND(0.40) J	ND(0.38) J
2,4,5-Trichlorophenol	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
2,4,6-Trichlorophenol	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
2,4-Dichlorophenol	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
2,4-Dimethylphenol	ND(0.37)	NA	ND(0.37)	2.5	0.29 J	0.16 J
2,4-Dinitrophenol	ND(1.9) J	NA	ND(1.9) J	ND(1.9) J	ND(2.0) J	ND(1.9) J
2,4-Dinitrotoluene	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
2,6-Dichlorophenol	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
2,6-Dinitrotoluene	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
2-Acetylaminofluorene	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
2-Chloronaphthalene	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
2-Chlorophenol	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
2-Methylnaphthalene	ND(0.37)	NA	0.86	0.28 J	ND(0.40)	ND(0.38)
2-Methylphenol	ND(0.37)	NA	0.85	0.27 J	0.81	ND(0.38)
2-Naphthylamine	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
2-Nitroaniline	ND(1.9)	NA	ND(1.9)	ND(1.9)	ND(2.0)	ND(1.9)
2-Nitrophenol	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
2-Picoline	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
3&4-Methylphenol	ND(0.74)	NA	2.0	0.98	0.40 J	ND(0.76)
3,3'-Dichlorobenzidine	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
3,3'-Dimethylbenzidine	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
3-Methylcholanthrene	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
3-Nitroaniline	ND(1.9)	NA	ND(1.9)	ND(1.9)	ND(2.0)	ND(1.9)
4,6-Dinitro-2-methylphenol	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
4-Aminobiphenyl	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
4-Bromophenyl-phenylether	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
4-Chloro-3-Methylphenol	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
4-Chloroaniline	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
4-Chlorobenzilate	ND(0.74) J	NA	ND(0.74) J	ND(0.76) J	ND(0.80) J	ND(0.76) J
4-Chlorophenyl-phenylether	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
4-Nitroaniline	ND(1.9)	NA	ND(1.9)	ND(1.9)	ND(2.0)	ND(1.9)
4-Nitrophenol	ND(1.9) J	NA	ND(1.9) J	ND(1.9) J	ND(2.0) J	ND(1.9) J
4-Nitroquinoline-1-oxide	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
4-Phenylenediamine	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
5-Nitro-o-toluidine	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
7,12-Dimethylbenz(a)anthracene	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
a,a'-Dimethylphenethylamine	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
Acenaphthene	ND(0.37)	NA	ND(0.37)	ND(0.38)	0.34 J	ND(0.38)
Acenaphthylene	ND(0.37)	NA	0.17 J	ND(0.38)	0.11 J	ND(0.38)
Acetophenone	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
Aniline	ND(0.37)	NA	15	2.3	41	2.8
Anthracene	ND(0.37)	NA	0.43	0.22 J	0.40	0.17 J
Aramite	ND(0.74) J	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
Benzidine	ND(0.74) J	NA	ND(0.74) J	ND(0.76)	ND(0.80) J	ND(0.76) J
Benzo(a)anthracene	0.17 J	NA	1.3	0.48	1.2	0.61
Benzo(a)pyrene	0.14 J	NA	1.2	0.48	1.0	0.53
Benzo(b)fluoranthene	ND(0.37)	NA	1.6	0.96	1.4	0.72

TABLE B-1
SUPPLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR APPENDIX IX+3 ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	RAA4-B33E 1-6 05/20/03	RAA4-B33E 3-4 05/20/03	RAA4-L13 0-1 05/16/03	RAA4-L16 0-1 05/21/03	RAA4-N6 0-1 05/16/03	RAA4-N10 0-1 05/16/03
Semivolatile Organics (continued)						
Benzo(g,h,i)perylene	ND(0.37)	NA	0.93	0.67	0.72	0.45
Benzo(k)fluoranthene	0.10 J	NA	0.60	0.27 J	0.53	0.28 J
Benzyl Alcohol	ND(0.74) J	NA	ND(0.74)	ND(0.76) J	ND(0.80)	ND(0.76)
bis(2-Chloroethoxy)methane	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
bis(2-Chloroethyl)ether	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
bis(2-Chloroisopropyl)ether	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
bis(2-Ethylhexyl)phthalate	ND(0.36)	NA	ND(0.36)	ND(0.37)	ND(0.39)	ND(0.37)
Butylbenzylphthalate	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
Chrysene	0.17 J	NA	1.3	0.71	1.3	0.77
Diallate	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
Dibenzo(a,h)anthracene	ND(0.37)	NA	ND(0.37)	0.20 J	0.14 J	ND(0.38)
Dibenzofuran	ND(0.37)	NA	0.58	0.17 J	0.15 J	0.084 J
Diethylphthalate	ND(0.37)	NA	0.074 J	ND(0.38)	ND(0.40)	ND(0.38)
Dimethylphthalate	ND(0.37)	NA	ND(0.37)	0.19 J	ND(0.40)	ND(0.38)
Di-n-Butylphthalate	ND(0.37)	NA	1.9	0.31 J	3.9	ND(0.38)
Di-n-Octylphthalate	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
Diphenylamine	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
Ethyl Methanesulfonate	ND(0.37)	NA	ND(0.37) J	ND(0.38)	ND(0.40) J	ND(0.38) J
Fluoranthene	0.25 J	NA	2.4	0.99	2.8	1.2
Fluorene	ND(0.37)	NA	0.21 J	ND(0.38)	0.23 J	ND(0.38)
Hexachlorobenzene	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
Hexachlorobutadiene	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
Hexachlorocyclopentadiene	ND(0.37) J	NA	ND(0.37) J	ND(0.38) J	ND(0.40) J	ND(0.38) J
Hexachloroethane	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
Hexachlorophene	ND(0.74) J	NA	ND(0.74)	ND(0.76) J	ND(0.80)	ND(0.76)
Hexachloropropene	ND(0.37) J	NA	ND(0.37) J	ND(0.38)	ND(0.40) J	ND(0.38) J
Indeno(1,2,3-cd)pyrene	ND(0.37)	NA	0.80	0.54	0.65	0.37 J
Isodrin	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
Isophorone	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
Isosafrole	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
Methapyrilene	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
Methyl Methanesulfonate	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
Naphthalene	0.13 J	NA	0.64	0.35 J	0.15 J	0.15 J
Nitrobenzene	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
N-Nitrosodiethylamine	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
N-Nitrosodimethylamine	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
N-Nitroso-di-n-butylamine	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
N-Nitroso-di-n-propylamine	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
N-Nitrosodiphenylamine	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
N-Nitrosomethylethylamine	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
N-Nitrosomorpholine	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
N-Nitrosopiperidine	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
N-Nitrosopyrrolidine	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
o,o,o-Triethylphosphorothioate	ND(0.37) J	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
o-Toluidine	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
p-Dimethylaminoazobenzene	ND(0.74)	NA	ND(0.74)	ND(0.76)	ND(0.80)	ND(0.76)
Pentachlorobenzene	ND(0.37) J	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
Pentachloroethane	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
Pentachloronitrobenzene	ND(0.74) J	NA	ND(0.74)	ND(0.76) J	ND(0.80)	ND(0.76)
Pentachlorophenol	ND(1.9)	NA	ND(1.9)	ND(1.9)	ND(2.0)	ND(1.9)
Phenacetin	ND(0.74)	NA	ND(0.74) J	ND(0.76)	ND(0.80) J	ND(0.76) J
Phenanthrene	0.28 J	NA	1.4	0.76	2.0	0.94
Phenol	ND(0.37)	NA	0.80	ND(0.38)	2.6	ND(0.38)
Pronamide	ND(0.37) J	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
Pyrene	0.46	NA	2.1	0.96	2.3	1.0
Pyridine	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)

TABLE B-1
SUPPLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR APPENDIX IX+3 ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	RAA4-B33E 1-6 05/20/03	RAA4-B33E 3-4 05/20/03	RAA4-L13 0-1 05/16/03	RAA4-L16 0-1 05/21/03	RAA4-N6 0-1 05/16/03	RAA4-N10 0-1 05/16/03
Semivolatile Organics (continued)						
Safrole	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
Thionazin	ND(0.37)	NA	ND(0.37)	ND(0.38)	ND(0.40)	ND(0.38)
Furans						
2,3,7,8-TCDF	0.000036 Y	NA	0.000025 Y	0.00040 Y	0.000029 Y	0.0000087 J
TCDFs (total)	0.00029 QJ	NA	0.00026 QIJ	0.013 I	0.00038	0.000090
1,2,3,7,8-PeCDF	0.000010 J	NA	0.000015 J	0.0016	0.000037	ND(0.0000048) X
2,3,4,7,8-PeCDF	0.000012 J	NA	0.000015 J	0.0017	0.000024 J	0.0000057 J
PeCDFs (total)	0.00014 QJ	NA	0.00022 QIJ	0.014 QJ	0.00054 QJ	0.000055 QIJ
1,2,3,4,7,8-HxCDF	ND(0.0000093) X	NA	0.000024 J	0.0031 I	0.000040	0.0000077 J
1,2,3,6,7,8-HxCDF	ND(0.0000056) X	NA	0.000014 J	0.0015 I	0.000015 J	0.0000048 J
1,2,3,7,8,9-HxCDF	0.0000025 J	NA	0.0000028 J	0.00062	ND(0.0000094)	ND(0.0000019) X
2,3,4,6,7,8-HxCDF	0.0000073 J	NA	0.0000053 J	0.00087	0.000022 J	ND(0.0000040) X
HxCDFs (total)	0.000095	NA	0.000096	0.013 I	0.00038	0.000036
1,2,3,4,6,7,8-HpCDF	0.000037	NA	0.000020 J	0.0023	0.000044	0.000017 J
1,2,3,4,7,8,9-HpCDF	0.0000022 J	NA	0.0000040 J	0.00094	ND(0.0000055) X	ND(0.0000024) X
HpCDFs (total)	0.000069	NA	0.000024	0.0048	0.000083	0.000022
OCDF	0.000024 J	NA	0.000012 J	0.0021	0.000032 J	0.000019 J
Dioxins						
2,3,7,8-TCDD	ND(0.0000033)	NA	ND(0.00000088) X	ND(0.0000072) X	ND(0.0000018)	ND(0.0000012)
TCDDs (total)	ND(0.0000033)	NA	0.0000017 QJ	0.00016	ND(0.0000027)	0.0000099
1,2,3,7,8-PeCDD	ND(0.0000050) X	NA	ND(0.0000026)	ND(0.0012) X	ND(0.000022) X	ND(0.0000037) X
PeCDDs (total)	0.0000017	NA	0.0000034 QJ	0.00027	ND(0.0000044)	0.000011
1,2,3,4,7,8-HxCDD	ND(0.0000027)	NA	ND(0.0000026)	0.000026	ND(0.0000032)	0.0000015 J
1,2,3,6,7,8-HxCDD	0.0000022 J	NA	ND(0.0000012) X	0.000039	ND(0.0000032)	ND(0.0000024) X
1,2,3,7,8,9-HxCDD	ND(0.0000019) X	NA	ND(0.0000026)	0.000034	ND(0.0000032)	ND(0.0000024) X
HxCDDs (total)	0.0000049	NA	0.0000094	0.00054	0.0000096	0.000023
1,2,3,4,6,7,8-HpCDD	0.000016	NA	0.0000056 J	0.00021	ND(0.000018) X	0.000011 J
HpCDDs (total)	0.000028	NA	0.0000056	0.00042	0.000016	0.000023
OCDD	0.00011	NA	ND(0.000056)	0.00049	0.000097	ND(0.000060)
Total TEQs (WHO TEFs)	0.000017	NA	0.000018	0.0022	0.000038	0.0000085
Inorganics						
Antimony	ND(6.00)	NA	ND(6.00)	3.40 B	2.00 B	1.00 B
Arsenic	8.40	NA	7.80	15.0	11.0	25.0
Barium	19.0 B	NA	37.0	200	48.0	73.0
Beryllium	0.160 B	NA	0.220 B	0.280 B	0.220 B	0.400 B
Cadmium	0.160 B	NA	0.820	59.0	0.570	1.20
Chromium	8.30	NA	7.60	22.0	14.0	11.0
Cobalt	9.80	NA	8.40	6.00	8.80	31.0
Copper	30.0	NA	89.0	5800	190	320
Cyanide	2.20 J	NA	0.230	0.160	0.0980 B	0.0980 B
Lead	35.0 J	NA	150	11000	52.0	190
Mercury	0.0630 J	NA	0.170	1.40	0.200	0.170
Nickel	16.0	NA	11.0	25.0	14.0	22.0
Selenium	0.770 J	NA	1.20 J	4.60	1.70 J	1.50 J
Silver	ND(1.00)	NA	ND(1.00)	ND(1.00)	ND(1.00)	0.160 B
Sulfide	120	NA	53.0	27.0	30.0	510
Thallium	0.820 B	NA	ND(1.10) J	1.10	1.00 J	ND(1.10) J
Tin	4.70 B	NA	ND(10)	61.0	ND(17)	38.0
Vanadium	6.80	NA	7.60	9.10	23.0	15.0
Zinc	46.0 J	NA	220	710	150	380

TABLE B-1
SUPPLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR APPENDIX IX+3 ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	RAA4-N14 0-1 05/16/03	RAA4-P5 0-1 05/16/03	RAA4-P8 0-1 05/16/03	RAA4-P11 0-1 05/20/03
Volatile Organics				
1,1,1,2-Tetrachloroethane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
1,1,1-Trichloroethane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
1,1,2,2-Tetrachloroethane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
1,1,2-Trichloroethane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
1,1-Dichloroethane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
1,1-Dichloroethene	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
1,2,3-Trichloropropane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
1,2-Dibromo-3-chloropropane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
1,2-Dibromoethane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
1,2-Dichloroethane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
1,2-Dichloropropane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
1,4-Dioxane	ND(0.11) J	ND(0.11) J	ND(0.11) J	ND(0.11) J [ND(0.11) J]
2-Butanone	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.011) [ND(0.011)]
2-Chloro-1,3-butadiene	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
2-Chloroethylvinylether	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
2-Hexanone	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.011) [ND(0.011)]
3-Chloropropene	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
4-Methyl-2-pentanone	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.011) [ND(0.011)]
Acetone	ND(0.022)	ND(0.022)	ND(0.022)	ND(0.021) J [ND(0.022) J]
Acetonitrile	ND(0.11) J	ND(0.11) J	ND(0.11) J	ND(0.11) J [ND(0.11) J]
Acrolein	ND(0.11) J	ND(0.11) J	ND(0.11) J	ND(0.11) J [ND(0.11) J]
Acrylonitrile	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Benzene	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Bromodichloromethane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Bromoform	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Bromomethane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Carbon Disulfide	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Carbon Tetrachloride	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Chlorobenzene	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Chloroethane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Chloroform	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Chloromethane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
cis-1,3-Dichloropropene	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Dibromochloromethane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Dibromomethane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Dichlorodifluoromethane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Ethyl Methacrylate	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Ethylbenzene	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Iodomethane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Isobutanol	ND(0.11) J	ND(0.11) J	ND(0.11) J	ND(0.11) J [ND(0.11) J]
Methacrylonitrile	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Methyl Methacrylate	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Methylene Chloride	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Propionitrile	ND(0.011)	ND(0.011)	ND(0.011)	ND(0.011) [ND(0.011)]
Styrene	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Tetrachloroethene	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Toluene	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
trans-1,2-Dichloroethene	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
trans-1,3-Dichloropropene	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
trans-1,4-Dichloro-2-butene	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Trichloroethene	ND(0.0055)	0.0039 J	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Trichlorofluoromethane	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Vinyl Acetate	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Vinyl Chloride	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]
Xylenes (total)	ND(0.0055)	ND(0.0056)	ND(0.0056)	ND(0.0053) [ND(0.0054)]

TABLE B-1
SUPPLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR APPENDIX IX+3 ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	RAA4-N14 0-1 05/16/03	RAA4-P5 0-1 05/16/03	RAA4-P8 0-1 05/16/03	RAA4-P11 0-1 05/20/03
Semivolatile Organics				
1,2,4,5-Tetrachlorobenzene	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
1,2,4-Trichlorobenzene	1.3	ND(0.38)	ND(0.52)	ND(0.36)
1,2-Dichlorobenzene	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
1,2-Diphenylhydrazine	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
1,3,5-Trinitrobenzene	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36) J
1,3-Dichlorobenzene	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
1,3-Dinitrobenzene	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
1,4-Dichlorobenzene	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
1,4-Naphthoquinone	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
1-Naphthylamine	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
2,3,4,6-Tetrachlorophenol	ND(0.37) J	ND(0.38) J	ND(0.52) J	ND(0.36) J
2,4,5-Trichlorophenol	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
2,4,6-Trichlorophenol	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
2,4-Dichlorophenol	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
2,4-Dimethylphenol	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
2,4-Dinitrophenol	ND(1.9) J	ND(1.9) J	ND(2.6) J	ND(1.8) J
2,4-Dinitrotoluene	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
2,6-Dichlorophenol	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
2,6-Dinitrotoluene	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
2-Acetylaminofluorene	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
2-Chloronaphthalene	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
2-Chlorophenol	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
2-Methylnaphthalene	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
2-Methylphenol	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
2-Naphthylamine	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
2-Nitroaniline	ND(1.9)	ND(1.9)	ND(2.6)	ND(1.8)
2-Nitrophenol	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
2-Picoline	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
3&4-Methylphenol	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
3,3'-Dichlorobenzidine	ND(0.74)	ND(0.76)	ND(1.0)	ND(0.71)
3,3'-Dimethylbenzidine	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
3-Methylcholanthrene	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
3-Nitroaniline	ND(1.9)	ND(1.9)	ND(2.6)	ND(1.8)
4,6-Dinitro-2-methylphenol	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
4-Aminobiphenyl	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
4-Bromophenyl-phenylether	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
4-Chloro-3-Methylphenol	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
4-Chloroaniline	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
4-Chlorobenzilate	ND(0.74) J	ND(0.76) J	ND(0.76) J	ND(0.71) J
4-Chlorophenyl-phenylether	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
4-Nitroaniline	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.8)
4-Nitrophenol	ND(1.9) J	ND(1.9) J	ND(2.6) J	ND(1.8) J
4-Nitroquinoline-1-oxide	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
4-Phenylenediamine	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
5-Nitro-o-toluidine	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
7,12-Dimethylbenz(a)anthracene	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
a,a'-Dimethylphenethylamine	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
Acenaphthene	ND(0.37)	2.3	ND(0.52)	ND(0.36)
Acenaphthylene	ND(0.37)	0.077 J	ND(0.52)	ND(0.36)
Acetophenone	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Aniline	2.6	2.9	2.7	0.20 J
Anthracene	ND(0.37)	4.1	ND(0.52)	ND(0.36)
Aramite	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71) J
Benzidine	ND(0.74) J	ND(0.76) J	ND(1.0) J	ND(0.71) J
Benzo(a)anthracene	0.26 J	11	1.4	0.33 J
Benzo(a)pyrene	0.26 J	6.0	1.3	0.45
Benzo(b)fluoranthene	0.42	10	3.9	0.79

TABLE B-1
SUPPLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR APPENDIX IX+3 ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	RAA4-N14 0-1 05/16/03	RAA4-P5 0-1 05/16/03	RAA4-P8 0-1 05/16/03	RAA4-P11 0-1 05/20/03
Semivolatile Organics (continued)				
Benzo(g,h,i)perylene	0.29 J	3.8	2.0	0.46
Benzo(k)fluoranthene	0.13 J	2.9	0.98	ND(0.36)
Benzyl Alcohol	ND(0.74)	ND(0.76)	ND(1.0)	ND(0.71) J
bis(2-Chloroethoxy)methane	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
bis(2-Chloroethyl)ether	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
bis(2-Chloroisopropyl)ether	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
bis(2-Ethylhexyl)phthalate	ND(0.36)	ND(0.37)	0.21 J	ND(0.35)
Butylbenzylphthalate	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Chrysene	0.30 J	7.3	2.6	0.58
Diallate	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
Dibenzo(a,h)anthracene	ND(0.37)	0.56	0.75	ND(0.36)
Dibenzofuran	ND(0.37)	1.2	ND(0.52)	ND(0.36)
Diethylphthalate	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Dimethylphthalate	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Di-n-Butylphthalate	ND(0.37)	0.49	0.30 J	ND(0.36)
Di-n-Octylphthalate	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Diphenylamine	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Ethyl Methanesulfonate	ND(0.37) J	ND(0.38) J	ND(0.52) J	ND(0.36)
Fluoranthene	0.45	27	1.8	0.53
Fluorene	ND(0.37)	1.8	ND(0.52)	ND(0.36)
Hexachlorobenzene	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Hexachlorobutadiene	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Hexachlorocyclopentadiene	ND(0.37) J	ND(0.38) J	ND(0.52) J	ND(0.36) J
Hexachloroethane	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Hexachlorophene	ND(0.74)	ND(0.76)	ND(1.0)	ND(0.71) J
Hexachloropropene	ND(0.37) J	ND(0.38) J	ND(0.52) J	ND(0.36) J
Indeno(1,2,3-cd)pyrene	0.23 J	3.4	1.7	0.36
Isodrin	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Isophorone	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Isosafrole	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
Methapyrilene	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
Methyl Methanesulfonate	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Naphthalene	ND(0.37)	1.2	ND(0.52)	ND(0.36)
Nitrobenzene	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
N-Nitrosodiethylamine	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
N-Nitrosodimethylamine	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
N-Nitroso-di-n-butylamine	0.22 J	ND(0.76)	ND(0.76)	ND(0.71)
N-Nitroso-di-n-propylamine	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
N-Nitrosodiphenylamine	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
N-Nitrosomethylethylamine	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
N-Nitrosomorpholine	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
N-Nitrosopiperidine	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
N-Nitrosopyrrolidine	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
o,o,o-Triethylphosphorothioate	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36) J
o-Toluidine	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
p-Dimethylaminoazobenzene	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71)
Pentachlorobenzene	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36) J
Pentachloroethane	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Pentachloronitrobenzene	ND(0.74)	ND(0.76)	ND(0.76)	ND(0.71) J
Pentachlorophenol	ND(1.9)	ND(1.9)	ND(2.6)	ND(1.8)
Phenacetin	ND(0.74) J	ND(0.76) J	ND(0.76) J	ND(0.71)
Phenanthrene	0.25 J	24	0.37 J	0.20 J
Phenol	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Pronamide	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36) J
Pyrene	0.48	22	1.6	0.46
Pyridine	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)

TABLE B-1
SUPPLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR APPENDIX IX+3 ANALYTICAL RESULTS SUPP

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION SUPPI
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	RAA4-N14 0-1 05/16/03	RAA4-P5 0-1 05/16/03	RAA4-P8 0-1 05/16/03	RAA4-P11 0-1 05/20/03
Semivolatile Organics (continued)				
Safrole	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Thionazin	ND(0.37)	ND(0.38)	ND(0.52)	ND(0.36)
Furans				
2,3,7,8-TCDF	0.00016 Y	0.000029 Y	0.0000041 J	0.00092 Y
TCDFs (total)	0.0027 I	0.00030 QJ	0.000034	0.0044 I
1,2,3,7,8-PeCDF	0.00012	0.000016 J	ND(0.0000015) X	0.000022 J
2,3,4,7,8-PeCDF	0.00013	0.000018 J	0.0000040 J	0.000049
PeCDFs (total)	0.0020	0.00016 QJ	0.000054	0.0039 I
1,2,3,4,7,8-HxCDF	0.00033	0.000027 J	0.0000034 J	0.000085
1,2,3,6,7,8-HxCDF	0.00016	0.000013 J	ND(0.0000032) X	0.00017
1,2,3,7,8,9-HxCDF	0.000087	ND(0.0000039) X	ND(0.0000017) X	0.000014 J
2,3,4,6,7,8-HxCDF	0.000067	0.0000076 J	0.0000045 J	0.00010
HxCDFs (total)	0.0011	0.00012	0.000062	0.0018 I
1,2,3,4,6,7,8-HpCDF	0.00014	0.000033	0.0000072 J	0.00025
1,2,3,4,7,8,9-HpCDF	0.000078	0.0000071 J	ND(0.0000028)	0.000028
HpCDFs (total)	0.00028	0.000045	0.0000072	0.00056
OCDF	0.00020	0.000033 J	ND(0.0000054) X	0.00014
Dioxins				
2,3,7,8-TCDD	ND(0.0000017)	ND(0.0000015)	ND(0.0000018)	ND(0.0000036)
TCDDs (total)	ND(0.0000029)	ND(0.0000015)	ND(0.0000022)	ND(0.0000036)
1,2,3,7,8-PeCDD	ND(0.00017) X	ND(0.0000011) X	ND(0.0000026) X	ND(0.000021) X
PeCDDs (total)	ND(0.0000039)	0.0000021 QJ	0.0000035 QJ	ND(0.0000057) QJ
1,2,3,4,7,8-HxCDD	ND(0.0000028)	ND(0.0000027)	ND(0.0000028)	0.0000045 J
1,2,3,6,7,8-HxCDD	ND(0.0000027) X	0.0000021 J	ND(0.0000028)	ND(0.0000060) X
1,2,3,7,8,9-HxCDD	0.0000020 J	ND(0.0000027)	ND(0.0000028)	ND(0.0000061)
HxCDDs (total)	0.000018	0.0000066	ND(0.0000043)	0.000052
1,2,3,4,6,7,8-HpCDD	0.0000090 J	0.0000076 J	0.0000062 J	0.000030
HpCDDs (total)	0.0000090	0.000016	0.0000062	0.000066
OCDD	ND(0.000053)	0.000079	0.000095	0.00013
Total TEQs (WHO TEFs)	0.00024	0.000020	0.0000063	0.00017
Inorganics				
Antimony	ND(6.00)	ND(6.00)	ND(6.00)	0.770 B
Arsenic	8.50	7.60	8.40	7.40
Barium	38.0	54.0	34.0	31.0
Beryllium	0.320 B	0.230 B	0.260 B	0.220 B
Cadmium	0.800	0.990	0.310 B	29.0
Chromium	9.50	10.0	15.0	9.20
Cobalt	17.0	22.0	13.0	8.80
Copper	220	200	46.0	71.0
Cyanide	0.100 B	0.0800 B	0.800	0.0990 J
Lead	120	53.0	32.0	260 J
Mercury	1.20	0.120	0.320	0.0960 J
Nickel	21.0	12.0	8.00	14.0
Selenium	1.00 J	1.30 J	1.40 J	1.40 J
Silver	0.210 B	0.370 B	ND(1.00)	ND(1.00)
Sulfide	18.0	34.0	93.0	28.0
Thallium	ND(1.10) J	ND(1.10) J	ND(1.10) J	1.20
Tin	ND(12)	ND(13)	ND(12)	8.70 B
Vanadium	10.0	14.0	25.0	11.0
Zinc	180	270	28.0	620 J

TABLE B-1
ᵖLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR APPENDIX IX+3 ANALYTICAL RESULTS

LEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	RAA4-P11 1-3 05/20/03	RAA4-R5 3-4 05/15/03	RAA4-R5 3-6 05/15/03
Volatile Organics			
1,1,1,2-Tetrachloroethane	ND(0.0054)	ND(0.0058)	NA
1,1,1-Trichloroethane	ND(0.0054)	ND(0.0058)	NA
1,1,2,2-Tetrachloroethane	ND(0.0054)	ND(0.0058)	NA
1,1,2-Trichloroethane	ND(0.0054)	ND(0.0058)	NA
1,1-Dichloroethane	ND(0.0054)	ND(0.0058)	NA
1,1-Dichloroethene	ND(0.0054)	ND(0.0058)	NA
1,2,3-Trichloropropane	ND(0.0054)	ND(0.0058)	NA
1,2-Dibromo-3-chloropropane	ND(0.0054)	ND(0.0058)	NA
1,2-Dibromoethane	ND(0.0054)	ND(0.0058)	NA
1,2-Dichloroethane	ND(0.0054)	ND(0.0058)	NA
1,2-Dichloropropane	ND(0.0054)	ND(0.0058)	NA
1,4-Dioxane	ND(0.11) J	ND(0.12) J	NA
2-Butanone	ND(0.011)	ND(0.012)	NA
2-Chloro-1,3-butadiene	ND(0.0054)	ND(0.0058)	NA
2-Chloroethylvinylether	ND(0.0054)	ND(0.0058)	NA
2-Hexanone	ND(0.011)	ND(0.012)	NA
3-Chloropropene	ND(0.0054)	ND(0.0058)	NA
4-Methyl-2-pentanone	ND(0.011)	ND(0.012)	NA
Acetone	ND(0.022) J	ND(0.023)	NA
Acetonitrile	ND(0.11) J	ND(0.12) J	NA
Acrolein	ND(0.11) J	ND(0.12) J	NA
Acrylonitrile	ND(0.0054)	ND(0.0058)	NA
Benzene	ND(0.0054)	ND(0.0058)	NA
Bromodichloromethane	ND(0.0054)	ND(0.0058)	NA
Bromoform	ND(0.0054)	ND(0.0058)	NA
Bromomethane	ND(0.0054)	ND(0.0058)	NA
Carbon Disulfide	ND(0.0054)	ND(0.0058)	NA
Carbon Tetrachloride	ND(0.0054)	ND(0.0058)	NA
Chlorobenzene	ND(0.0054)	ND(0.0058)	NA
Chloroethane	ND(0.0054)	ND(0.0058)	NA
Chloroform	ND(0.0054)	ND(0.0058)	NA
Chloromethane	ND(0.0054)	ND(0.0058)	NA
cis-1,3-Dichloropropene	ND(0.0054)	ND(0.0058)	NA
Dibromochloromethane	ND(0.0054)	ND(0.0058)	NA
Dibromomethane	ND(0.0054)	ND(0.0058)	NA
Dichlorodifluoromethane	ND(0.0054)	ND(0.0058)	NA
Ethyl Methacrylate	ND(0.0054)	ND(0.0058)	NA
Ethylbenzene	ND(0.0054)	ND(0.0058)	NA
Iodomethane	ND(0.0054)	ND(0.0058)	NA
Isobutanol	ND(0.11) J	ND(0.12) J	NA
Methacrylonitrile	ND(0.0054)	ND(0.0058)	NA
Methyl Methacrylate	ND(0.0054)	ND(0.0058)	NA
Methylene Chloride	ND(0.0054)	ND(0.0058)	NA
Propionitrile	ND(0.011)	ND(0.012)	NA
Styrene	ND(0.0054)	ND(0.0058)	NA
Tetrachloroethene	ND(0.0054)	ND(0.0058)	NA
Toluene	ND(0.0054)	ND(0.0058)	NA
trans-1,2-Dichloroethene	ND(0.0054)	ND(0.0058)	NA
trans-1,3-Dichloropropene	ND(0.0054)	ND(0.0058)	NA
trans-1,4-Dichloro-2-butene	ND(0.0054)	ND(0.0058)	NA
Trichloroethene	ND(0.0054)	ND(0.0058)	NA
Trichlorofluoromethane	ND(0.0054)	ND(0.0058)	NA
Vinyl Acetate	ND(0.0054)	ND(0.0058)	NA
Vinyl Chloride	ND(0.0054)	ND(0.0058)	NA
Xylenes (total)	ND(0.0054)	ND(0.0058)	NA

TABLE B-1
PLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR APPENDIX IX+3 ANALYTICAL RESULTS

LEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	RAA4-P11 1-3 05/20/03	RAA4-R5 3-4 05/15/03	RAA4-R5 3-6 05/15/03
Semivolatile Organics				
1,2,4,5-Tetrachlorobenzene		ND(0.36) [ND(0.36)]	NA	ND(0.38)
1,2,4-Trichlorobenzene		ND(0.36) [ND(0.36)]	NA	ND(0.38)
1,2-Dichlorobenzene		ND(0.36) [ND(0.36)]	NA	ND(0.38)
1,2-Diphenylhydrazine		ND(0.36) [ND(0.36)]	NA	ND(0.38)
1,3,5-Trinitrobenzene		ND(0.36) J [ND(0.36) J]	NA	ND(0.38)
1,3-Dichlorobenzene		ND(0.36) [ND(0.36)]	NA	ND(0.38)
1,3-Dinitrobenzene		ND(0.73) [ND(0.72)]	NA	ND(0.77)
1,4-Dichlorobenzene		ND(0.36) [ND(0.36)]	NA	ND(0.38)
1,4-Naphthoquinone		ND(0.73) [ND(0.72)]	NA	ND(0.77)
1-Naphthylamine		ND(0.73) [ND(0.72)]	NA	ND(0.77)
2,3,4,6-Tetrachlorophenol		ND(0.36) J [ND(0.36) J]	NA	ND(0.38) J
2,4,5-Trichlorophenol		ND(0.36) [ND(0.36)]	NA	ND(0.38)
2,4,6-Trichlorophenol		ND(0.36) [ND(0.36)]	NA	ND(0.38)
2,4-Dichlorophenol		ND(0.36) [ND(0.36)]	NA	ND(0.38)
2,4-Dimethylphenol		ND(0.36) [ND(0.36)]	NA	ND(0.38)
2,4-Dinitrophenol		ND(1.8) J [ND(1.8) J]	NA	ND(2.0) J
2,4-Dinitrotoluene		ND(0.36) [ND(0.36)]	NA	ND(0.38)
2,6-Dichlorophenol		ND(0.36) [ND(0.36)]	NA	ND(0.38)
2,6-Dinitrotoluene		ND(0.36) [ND(0.36)]	NA	ND(0.38)
2-Acetylaminofluorene		ND(0.73) [ND(0.72)]	NA	ND(0.77)
2-Chloronaphthalene		ND(0.36) [ND(0.36)]	NA	ND(0.38)
2-Chlorophenol		ND(0.36) [ND(0.36)]	NA	ND(0.38)
2-Methylnaphthalene		ND(0.36) [ND(0.36)]	NA	ND(0.38)
2-Methylphenol		ND(0.36) [ND(0.36)]	NA	ND(0.38)
2-Naphthylamine		ND(0.73) [ND(0.72)]	NA	ND(0.77)
2-Nitroaniline		ND(1.8) [ND(1.8)]	NA	ND(2.0)
2-Nitrophenol		ND(0.73) [ND(0.72)]	NA	ND(0.77)
2-Picoline		ND(0.36) [ND(0.36)]	NA	ND(0.38)
3&4-Methylphenol		ND(0.73) [ND(0.72)]	NA	ND(0.77)
3,3'-Dichlorobenzidine		ND(0.73) [ND(0.72)]	NA	ND(0.77)
3,3'-Dimethylbenzidine		ND(0.36) [ND(0.36)]	NA	ND(0.38)
3-Methylcholanthrene		ND(0.73) [ND(0.72)]	NA	ND(0.77)
3-Nitroaniline		ND(1.8) [ND(1.8)]	NA	ND(2.0)
4,6-Dinitro-2-methylphenol		ND(0.36) [ND(0.36)]	NA	ND(0.38)
4-Aminobiphenyl		ND(0.73) [ND(0.72)]	NA	ND(0.77)
4-Bromophenyl-phenylether		ND(0.36) [ND(0.36)]	NA	ND(0.38)
4-Chloro-3-Methylphenol		ND(0.36) [ND(0.36)]	NA	ND(0.38)
4-Chloroaniline		ND(0.36) [ND(0.36)]	NA	ND(0.38)
4-Chlorobenzilate		ND(0.73) J [ND(0.72) J]	NA	ND(0.77) J
4-Chlorophenyl-phenylether		ND(0.36) [ND(0.36)]	NA	ND(0.38)
4-Nitroaniline		ND(1.8) [ND(1.8)]	NA	ND(2.0)
4-Nitrophenol		ND(1.8) J [ND(1.8) J]	NA	ND(2.0) J
4-Nitroquinoline-1-oxide		ND(0.73) [ND(0.72)]	NA	ND(0.77)
4-Phenylenediamine		ND(0.73) [ND(0.72)]	NA	ND(0.77)
5-Nitro-o-toluidine		ND(0.73) [ND(0.72)]	NA	ND(0.77)
7,12-Dimethylbenz(a)anthracene		ND(0.73) [ND(0.72)]	NA	ND(0.77)
a,a'-Dimethylphenethylamine		ND(0.73) [ND(0.72)]	NA	ND(0.77)
Acenaphthene		ND(0.36) [ND(0.36)]	NA	ND(0.38)
Acenaphthylene		ND(0.36) [ND(0.36)]	NA	ND(0.38)
Acetophenone		ND(0.36) [ND(0.36)]	NA	ND(0.38)
Aniline		ND(0.36) [ND(0.36)]	NA	ND(0.38)
Anthracene		ND(0.36) [ND(0.36)]	NA	ND(0.38)
Aramite		ND(0.73) J [ND(0.72) J]	NA	ND(0.77)
Benzidine		ND(0.73) J [ND(0.72) J]	NA	ND(0.77) J
Benzo(a)anthracene		0.27 J [0.40]	NA	0.084 J
Benzo(a)pyrene		0.22 J [0.33 J]	NA	0.12 J
Benzo(b)fluoranthene		0.72 [1.0]	NA	0.086 J

TABLE B-1
ᵖLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR APPENDIX IX+3 ANALYTICAL RESULTS

LEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	RAA4-P11 1-3 05/20/03	RAA4-R5 3-4 05/15/03	RAA4-R5 3-6 05/15/03
Semivolatile Organics (continued)			
Benzo(g,h,i)perylene	0.26 J [0.69]	NA	0.12 J
Benzo(k)fluoranthene	0.18 J [0.30 J]	NA	0.12 J
Benzyl Alcohol	ND(0.73) J [ND(0.72) J]	NA	ND(0.77)
bis(2-Chloroethoxy)methane	ND(0.36) [ND(0.36)]	NA	ND(0.38)
bis(2-Chloroethyl)ether	ND(0.36) [ND(0.36)]	NA	ND(0.38)
bis(2-Chloroisopropyl)ether	ND(0.36) [ND(0.36)]	NA	ND(0.38)
bis(2-Ethylhexyl)phthalate	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Butylbenzylphthalate	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Chrysene	0.47 [0.64]	NA	0.13 J
Diallate	ND(0.73) [ND(0.72)]	NA	ND(0.77)
Dibenzo(a,h)anthracene	ND(0.36) [0.24 J]	NA	ND(0.38)
Dibenzofuran	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Diethylphthalate	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Dimethylphthalate	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Di-n-Butylphthalate	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Di-n-Octylphthalate	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Diphenylamine	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Ethyl Methanesulfonate	ND(0.36) [ND(0.36)]	NA	ND(0.38) J
Fluoranthene	0.36 J [0.58]	NA	0.12 J
Fluorene	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Hexachlorobenzene	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Hexachlorobutadiene	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Hexachlorocyclopentadiene	ND(0.36) J [ND(0.36) J]	NA	ND(0.38) J
Hexachloroethane	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Hexachlorophene	ND(0.73) J [ND(0.72) J]	NA	ND(0.77)
Hexachloropropene	ND(0.36) J [ND(0.36) J]	NA	ND(0.38) J
Indeno(1,2,3-cd)pyrene	0.31 J [0.44]	NA	ND(0.38)
Isodrin	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Isophorone	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Isosafrole	ND(0.73) [ND(0.72)]	NA	ND(0.77)
Methapyrilene	ND(0.73) [ND(0.72)]	NA	ND(0.77)
Methyl Methanesulfonate	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Naphthalene	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Nitrobenzene	ND(0.36) [ND(0.36)]	NA	ND(0.38)
N-Nitrosodiethylamine	ND(0.36) [ND(0.36)]	NA	ND(0.38)
N-Nitrosodimethylamine	ND(0.36) [ND(0.36)]	NA	ND(0.38)
N-Nitroso-di-n-butylamine	ND(0.73) [ND(0.72)]	NA	ND(0.77)
N-Nitroso-di-n-propylamine	ND(0.36) [ND(0.36)]	NA	ND(0.38)
N-Nitrosodiphenylamine	ND(0.36) [ND(0.36)]	NA	ND(0.38)
N-Nitrosomethylethylamine	ND(0.73) [ND(0.72)]	NA	ND(0.77)
N-Nitrosomorpholine	ND(0.36) [ND(0.36)]	NA	ND(0.38)
N-Nitrosopiperidine	ND(0.36) [ND(0.36)]	NA	ND(0.38)
N-Nitrosopyrrolidine	ND(0.73) [ND(0.72)]	NA	ND(0.77)
o,o,o-Triethylphosphorothioate	ND(0.36) J [ND(0.36) J]	NA	ND(0.38)
o-Toluidine	ND(0.36) [ND(0.36)]	NA	ND(0.38)
p-Dimethylaminoazobenzene	ND(0.73) [ND(0.72)]	NA	ND(0.77)
Pentachlorobenzene	ND(0.36) J [ND(0.36) J]	NA	ND(0.38)
Pentachloroethane	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Pentachloronitrobenzene	ND(0.73) J [ND(0.72) J]	NA	ND(0.77)
Pentachlorophenol	ND(1.8) [ND(1.8)]	NA	ND(2.0)
Phenacetin	ND(0.73) [ND(0.72)]	NA	ND(0.77) J
Phenanthrene	0.10 J [0.17 J]	NA	0.078 J
Phenol	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Pronamide	ND(0.36) J [ND(0.36) J]	NA	ND(0.38)
Pyrene	0.33 J [0.46]	NA	0.12 J
Pyridine	ND(0.36) [ND(0.36)]	NA	ND(0.38)

TABLE B-1
ᵖLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR APPENDIX IX+3 ANALYTICAL RESULTS

LEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	RAA4-P11 1-3 05/20/03	RAA4-R5 3-4 05/15/03	RAA4-R5 3-6 05/15/03
Semivolatile Organics (continued)			
Safrole	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Thionazin	ND(0.36) [ND(0.36)]	NA	ND(0.38)
Furans			
2,3,7,8-TCDF	ND(0.0000052) X [0.0000075 J]	NA	0.000020 Y
TCDFs (total)	0.000043 J [0.000094 J]	NA	0.00014
1,2,3,7,8-PeCDF	0.0000050 J [ND(0.0000054) X]	NA	0.000010 J
2,3,4,7,8-PeCDF	0.0000098 J [0.0000095 J]	NA	0.000014 J
PeCDFs (total)	0.00016 QJ [0.00015]	NA	0.00022
1,2,3,4,7,8-HxCDF	0.000017 J [0.000019 J]	NA	0.000018 J
1,2,3,6,7,8-HxCDF	0.000012 J [0.000012 J]	NA	0.000011 J
1,2,3,7,8,9-HxCDF	0.0000037 J [ND(0.0000037) X]	NA	ND(0.0000046)
2,3,4,6,7,8-HxCDF	0.000019 J [0.000018 J]	NA	0.000019 J
HxCDFs (total)	0.00028 [0.00027]	NA	0.00025
1,2,3,4,6,7,8-HpCDF	0.000050 [0.000039]	NA	0.000042
1,2,3,4,7,8,9-HpCDF	0.0000063 J [0.0000059 J]	NA	0.0000058 J
HpCDFs (total)	0.00011 [0.000081]	NA	0.000098
OCDF	0.000037 J [0.000027 J]	NA	0.000020 J
Dioxins			
2,3,7,8-TCDD	ND(0.0000022) [ND(0.0000011)]	NA	ND(0.0000019)
TCDDs (total)	ND(0.0000026) [ND(0.0000028)]	NA	ND(0.0000027)
1,2,3,7,8-PeCDD	ND(0.0000038) X [ND(0.0000043) X]	NA	ND(0.0000051) X
PeCDDs (total)	0.0000053 [0.0000044]	NA	0.0000048
1,2,3,4,7,8-HxCDD	0.0000015 J [0.0000018 J]	NA	ND(0.0000028)
1,2,3,6,7,8-HxCDD	0.0000020 J [0.0000023 J]	NA	ND(0.0000032) X
1,2,3,7,8,9-HxCDD	0.0000018 J [ND(0.0000023) X]	NA	ND(0.0000028)
HxCDDs (total)	0.0000099 J [0.000020 J]	NA	0.0000083
1,2,3,4,6,7,8-HpCDD	0.0000076 J [ND(0.0000064) X]	NA	0.000016 J
HpCDDs (total)	0.000017 J [0.0000092 J]	NA	0.000034
OCDD	0.000089 [0.000080]	NA	0.00025
Total TEQs (WHO TEFs)	0.000015 [0.000014]	NA	0.000019
Inorganics			
Antimony	1.00 B [0.840 B]	NA	4.00 B
Arsenic	9.90 [7.70]	NA	17.0
Barium	49.0 [48.0]	NA	92.0
Beryllium	0.350 B [0.350 B]	NA	0.380 B
Cadmium	7.70 [5.70]	NA	1.00
Chromium	17.0 [16.0]	NA	18.0
Cobalt	15.0 [13.0]	NA	8.80
Copper	99.0 [87.0]	NA	780
Cyanide	0.130 J [0.100 J]	NA	0.130
Lead	51.0 J [53.0 J]	NA	140
Mercury	0.0350 J [0.0170 J]	NA	0.0760 B
Nickel	12.0 [10.0]	NA	16.0
Selenium	2.40 J [1.40 J]	NA	2.40 J
Silver	0.150 B [0.120 B]	NA	ND(1.00)
Sulfide	76.0 [71.0]	NA	80.0
Thallium	1.90 [1.40]	NA	1.30 J
Tin	9.70 B [9.80 B]	NA	90.0
Vanadium	29.0 [28.0]	NA	28.0
Zinc	490 J [400 J]	NA	340

TABLE B-1
SUPPLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR APPENDIX IX+3 ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of Appendix IX+3 constituents.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved November 4, 2002 and resubmitted December 10, 2002).
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. NA - Not Analyzed.
5. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
6. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, semivolatiles, dioxin/furans)

I - Polychlorinated Diphenyl Ether (PCDPE) Interference.
J - Indicates that the associated numerical value is an estimated concentration.
Q - Indicates the presence of quantitative interferences.
X - Estimated maximum possible concentration.
Y - 2,3,7,8-TCDF results have been confirmed on a DB-225 column.

Inorganics

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

TABLE B-2
EPA PCBS AND APPENDIX IX+3 SOIL ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Location ID: / Sample ID: / Sample Depth(Feet): / Date Collected:	RAA4-P11 / 2S-BH000999-0-0040 / 4-6 / 05/20/03
PCBs		
Aroclor-1016		ND(0.018)
Aroclor-1221		ND(0.018)
Aroclor-1232		ND(0.018)
Aroclor-1242		ND(0.018)
Aroclor-1248		ND(0.018)
Aroclor-1254		ND(0.018)
Aroclor-1260		ND(0.018)
Total PCBs		ND(0.018)
Semivolatile Organics		
1,2,4,5-Tetrachlorobenzene		ND(0.90)
1,2,4-Trichlorobenzene		ND(0.90)
1,2-Dichlorobenzene		ND(0.90)
1,3,5-Trinitrobenzene		ND(0.90)
1,3-Dichlorobenzene		ND(0.90)
1,3-Dinitrobenzene		ND(0.90)
1,4-Dichlorobenzene		ND(0.90)
1,4-Naphthoquinone		ND(0.90)
1-Naphthylamine		ND(0.90) J
2,3,4,6-Tetrachlorophenol		ND(0.90)
2,4,5-Trichlorophenol		ND(2.2)
2,4,6-Trichlorophenol		ND(0.90)
2,4-Dichlorophenol		ND(0.90)
2,4-Dimethylphenol		ND(0.90)
2,4-Dinitrophenol		ND(2.2) J
2,4-Dinitrotoluene		ND(0.90)
2,6-Dichlorophenol		ND(0.90)
2,6-Dinitrotoluene		ND(0.90)
2-Acetylaminofluorene		ND(0.90)
2-Chloronaphthalene		ND(0.90)
2-Chlorophenol		ND(0.90)
2-Methylnaphthalene		0.16 J
2-Methylphenol		ND(0.90)
2-Naphthylamine		ND(0.90) J
2-Nitroaniline		ND(2.2)
2-Nitrophenol		ND(0.90)
2-Picoline		ND(0.90)
3,3'-Dichlorobenzidine		ND(0.90)
3,3'-Dimethylbenzidine		ND(0.90) J
3-Methylcholanthrene		ND(0.90)
3-Nitroaniline		ND(2.2)
4,6-Dinitro-2-methylphenol		ND(2.2)
4-Aminobiphenyl		ND(0.90) J
4-Bromophenyl-phenylether		ND(0.90)
4-Chloro-3-Methylphenol		ND(0.90)
4-Chloroaniline		ND(0.90)
4-Chlorobenzilate		ND(0.90)
4-Chlorophenyl-phenylether		ND(0.90)
4-Methylphenol		ND(0.90)
4-Nitroaniline		ND(2.2)
4-Nitrophenol		ND(2.2)
4-Nitroquinoline-1-oxide		R
4-Phenylenediamine		ND(0.90) J
5-Nitro-o-toluidine		ND(0.90)
7,12-Dimethylbenz(a)anthracene		ND(0.90)
a,a'-Dimethylphenethylamine		ND(0.90)
Acenaphthene		ND(0.90)
Acenaphthylene		ND(0.90)

TABLE B-2
EPA PCBS AND APPENDIX IX+3 SOIL ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Location ID: / Sample ID: / Sample Depth(Feet): / Date Collected:	
	Location ID:	RAA4-P11
	Sample ID:	2S-BH000999-0-0040
	Sample Depth(Feet):	4-6
Parameter	Date Collected:	05/20/03
Acetophenone		ND(0.90)
Aniline		ND(2.2)
Anthracene		0.043 J
Semivolatile Organics (continued)		
Aramite		ND(0.90)
Azobenzene		ND(0.90)
Benzo(a)anthracene		1.4
Benzo(a)pyrene		1.6
Benzo(b)fluoranthene		5.6
Benzo(g,h,i)perylene		4.4
Benzo(k)fluoranthene		2.3
Benzyl Alcohol		ND(0.90)
bis(2-Chloroethoxy)methane		ND(0.90)
bis(2-Chloroethyl)ether		ND(0.90)
bis(2-Chloroisopropyl)ether		ND(0.90)
bis(2-Ethylhexyl)phthalate		ND(0.90)
Butylbenzylphthalate		ND(0.90)
Chrysene		3.3
Diallate		ND(0.90)
Dibenzo(a,h)anthracene		1.7
Dibenzofuran		0.045 J
Diethylphthalate		ND(0.90)
Dimethylphthalate		ND(0.90)
Di-n-Butylphthalate		ND(0.90)
Di-n-Octylphthalate		ND(0.90)
Dinoseb		ND(0.90)
Ethyl Methanesulfonate		ND(0.90)
Fluoranthene		1.8
Fluorene		ND(0.90)
Hexachlorobenzene		ND(0.90)
Hexachlorobutadiene		ND(0.90)
Hexachlorocyclopentadiene		ND(0.90) J
Hexachloroethane		ND(0.90)
Hexachloropropene		ND(0.90) J
Indeno(1,2,3-cd)pyrene		3.1
Isophorone		ND(0.90)
Isosafrole		ND(0.90)
Methapyrilene		ND(0.90)
Methyl Methanesulfonate		ND(0.90)
Naphthalene		0.084 J
Nitrobenzene		ND(0.90)
N-Nitrosodiethylamine		ND(0.90)
N-Nitrosodimethylamine		ND(0.90)
N-Nitroso-di-n-butylamine		ND(0.90)
N-Nitroso-di-n-propylamine		ND(0.90)
N-Nitrosodiphenylamine		ND(0.90)
N-Nitrosomethylethylamine		ND(0.90)
N-Nitrosomorpholine		ND(0.90)
N-Nitrosopiperidine		ND(0.90)
N-Nitrosopyrrolidine		ND(0.90)
o-Toluidine		ND(0.90)
p-Dimethylaminoazobenzene		ND(0.90)
Pentachlorobenzene		ND(0.90)
Pentachloroethane		ND(0.90)
Pentachloronitrobenzene		ND(0.90)
Pentachlorophenol		ND(2.2)
Phenacetin		ND(0.90)
Phenanthrene		0.47 J

TABLE B-2
EPA PCBS AND APPENDIX IX+3 SOIL ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Location ID: / Sample ID: / Sample Depth(Feet): / Date Collected:	RAA4-P11 / 2S-BH000999-0-0040 / 4-6 / 05/20/03
Phenol		ND(0.90)
Pronamide		ND(0.90)
Pyrene		1.3
Pyridine		ND(0.90)
Safrole		ND(0.90)

TABLE B-2
EPA PCBS AND APPENDIX IX+3 SOIL ANALYTICAL RESULTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Notes:

1. Sample collected by BBL and provided to United States Environmental Protection Agency (EPA) subcontractor. Analysis performed by EPA subcontractor laboratory and results provided to GE under a Data Exchange Agreement between GE and EPA.
2. ND - Analyte was not detected. The number in parentheses is the associated detection limit.

Data Qualifiers:

J - Estimated Value.
R - Rejected.

Appendix C

Data Validation Report

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

APPENDIX C

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION FOR THE EAST STREET AREA 2-SOUTH REMOVAL ACTION AREA

SOIL SAMPLING DATA VALIDATION REPORT

1.0 General

This appendix summarizes the Tier I and Tier II data reviews performed for soil samples collected during supplemental pre-design investigation activities at the East Street Area 2-South Action Area (RAA), which is part of the GE Pittsfield/Housatonic River site located in Pittsfield, Massachusetts. The samples were analyzed for various constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (hereafter referred to as Appendix IX+3), excluding pesticides and herbicides, by CT&E Environmental Services, Inc. of Charleston. Data validation was performed for 95 polychlorinated biphenyl (PCB) samples, 16 volatile organic compound (VOC) samples, 13 semi-volatile organic compound (SVOC) samples, 13 polychlorinated dibenzo-p-dioxin (PCDD)/polychlorinated dibenzofuran (PCDF) samples, 13 metals samples, and 13 cyanide/sulfide samples.

2.0 Data Evaluation Procedures

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

- *Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts*, Blasland, Bouck & Lee, Inc. ([BBL]; FSP/QAPP, approved October 17, 2000, revised December 10, 2002);
- *Region I Tiered Organic and Inorganic Data Validation Guidelines*, USEPA Region I (July 1, 1993);
- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses*, USEPA Region I (June 13, 1988) (Modified February 1989);
- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, USEPA Region I (February 1, 1988) (Modified November 1, 1988);
- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, USEPA Region I (Draft, December 1996); and
- *National Functional Guidelines for Dioxin/Furan Data Validation*, USEPA (Draft, January 1996).

A tabulated summary of the Tier I and Tier II data evaluations is presented in Table C-1. Each sample that was subjected to evaluation is listed in Table C-1 to document that the data review was performed, as well as to present the highest level of data validation (Tier I or Tier II) that was performed. Samples that required data qualification are listed separately for each parameter (compound or analyte) that required qualification.

The following data qualifiers have been used in this data evaluation.

J The compound or analyte was positively identified, but the associated numerical value is an estimated concentration. This qualifier is used when the data evaluation procedure identifies a deficiency in the data generation process. This qualifier is also used when a compound or analyte is detected at an estimated concentration less than the Practical Quantitation Limit (PQL).

U The compound or analyte was analyzed for, but was not detected. The sample quantitation limit is presented and adjusted for dilution and (for solid samples only) percent moisture. Non-detected sample results are presented as ND(PQL) within this report and in Table C-1 for consistency with previous documents prepared for this investigation.

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

R Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data should not be used for any qualitative or quantitative purposes.

3.0 Data Validation Procedures

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

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

Parameter	Tier I Only			Tier I &Tier II			Total
	Samples	Duplicates	Blanks	Samples	Duplicates	Blanks	
PCBs	18	1	1	68	4	3	95
VOCs	0	0	0	11	1	4	16
SVOCs	0	0	0	11	1	1	13
PCDDs/PCDFs	0	0	0	11	1	1	13
Metals	0	0	0	11	1	1	13
Cyanide/Sulfide	0	0	0	11	1	1	13
Total	**18**	**1**	**1**	**123**	**9**	**11**	**163**

In the event data packages were determined to be incomplete, the missing information was requested from the laboratory. Upon completion of the Tier I review, the data packages complied with USEPA Region I Tier I data completeness requirements.

As specified in the FSP/QAPP, approximately 25% of the laboratory sample delivery group packages were randomly chosen to be subjected to Tier II review. A Tier II review was also performed to resolve data usability limitations identified from laboratory qualification of the data during the Tier I data review. The Tier II data review consisted of a review of all data package summary forms for identification of Quality Assurance/Quality Control (QA/QC) deviations and qualification of the data according to the Region I Data Validation Functional Guidelines. Due to the variable sizes of the data packages and the number of data qualification issues identified during the Tier I review, approximately 88% of the data were subjected to a Tier II review. The Tier II review resulted in the qualification of data for several samples due to minor QA/QC deficiencies. Additionally, all field duplicates were examined for Relative Percent Difference (RPD) compliance with the criteria specified in the FSP/QAPP.

When qualification of the sample data was required, the sample results associated with a QA/QC parameter deviation were qualified in accordance with the procedures outlined in USEPA Region I data validation guidance documents. When the data validation process identified several quality control deficiencies, the cumulative effect of the various deficiencies was employed in assigning the final data qualifier. A summary of the QA/QC parameter deviations that resulted in data qualification is presented below for each analytical method.

4.0 Data Review

Initial calibration criterion for organic analyses requires that the average Relative Response Factor (RRF) has a value greater than 0.05. Sample results were qualified as estimated (J) when this criterion was exceeded. The compounds that exceeded initial calibration criterion and the number of samples qualified are presented below.

Analysis Qualified Due to Initial Calibration Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,4-Dioxane	12	J
	2-Chloroethylvinylether	4	J
	Acetonitrile	16	J
	Acrolein	16	J
	Isobutanol	16	J
	Propionitrile	4	J
SVOCs	Hexachlorophene	6	J

Several of the organic compounds (including the compounds presented in the above table detailing RRF deviations) exhibit instrument Response Factors (RFs) below the USEPA Region I minimum value of 0.05, but meet the analytical method criterion which does not specify minimum RFs for these compounds. These compounds were analyzed by the laboratory at a higher concentration than the compounds that normally exhibit RFs greater than the USEPA Region I minimum value of 0.05 in an effort to demonstrate acceptable response. USEPA Region I guidelines state that non-detected compound results associated with a RF less than the minimum value of 0.05 are to be rejected (R). However, in the case of these select organic compounds, the RF is an inherent problem with the current analytical methodology; therefore, the non-detected sample results were qualified as estimated (J).

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

Compounds Qualified Due to Initial Calibration %RSD Deviations

Analysis	Compound	Number of Affected Samples	Qualification
SVOCs	2,4-Dinitrophenol	13	J
	4-Nitrophenol	13	J
	Hexachlorocyclopentadiene	13	J

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

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	Acetone	5	J
	Dichlorodifluoromethane	1	J
	Vinyl Acetate	1	J
SVOCs	1,3,5-Trinitrobenzene	4	J
	2,3,4,6-Tetrachlorophenol	12	J
	4-Chlorobenzilate	12	J
	Aramite	4	J
	Benzidine	12	J
	Benzyl Alcohol	5	J
	Ethyl Methanesulfonate	7	J
	Hexachloropropene	12	J
	o,o,o-Triethylphosphorothioate	4	J
	Pentachlorobenzene	5	J
	Pentachloronitrobenzene	5	J
	Phenacetin	7	J
	Pronamide	4	J

Contract required detection limit (CRDL) standards were analyzed to evaluate instrument performance at low-level concentrations that are near the analytical method PQL. These standards are required to have recoveries between 80 and 120% to verify that the analytical instrumentation was properly calibrated. When CRDL standard recoveries exceeded the 80 to 120% control limits, the affected samples with detected results at or near the PQL concentration (less than three times the PQL) were qualified as estimated (J). The analytes that exceeded CRDL criteria and the number of samples qualified due to those deviations are presented below.

Analytes Qualified Due to CRDL Standard Recovery Deviations

Analysis	Analyte	Number of Affected Samples	Qualification
Inorganics	Selenium	7	J
	Thallium	7	J

Field, laboratory, and method blanks were analyzed to evaluate whether field sampling equipment or laboratory background contamination may have contributed to the reported sample results. When detected analytes were identified in a blank sample, blank action levels were calculated at 10 times the blank concentrations for the common laboratory contaminant compounds (OCDD) and five times the blank concentration for all other detected analytes. Detected sample results that were below the blank action level were qualified as "U." The analytes/ compounds detected in the method blanks and which resulted in qualification of sample data are presented below.

Analytes/Compounds Qualified Due to Blank Deviations

Analysis	Compound	Number of Affected Samples	Qualification
Inorganics	Tin	5	U
PCDDs/PCDFs	OCDD	3	U

Matrix spike (MS) sample analysis recovery criteria for inorganics require that spike recoveries be between 75 and 125% and for organics the MS recoveries must be within the laboratory-generated QC acceptance limits specified on the MS reporting form. Inorganic sample results that exceeded these limits were qualified as estimated (J). MS sample analysis recovery criteria for organics require that the MS be within the laboratory-generated QC acceptance limits specified on the MS reporting form. Analytes/compounds that did not meet MS recovery criteria and the samples qualified due to those deviations are presented below.

Analytes/Compounds Qualified Due to Matrix Spike Recovery Deviations

Analysis	Analyte/Compounds	Number of Affected Samples	Qualification
Inorganics	Lead	4	J
	Mercury	4	J
	Zinc	4	J
	Cyanide	4	J
PCDDs/PCDFs	1,2,3,4,7,8-HxCDD	1	J

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

Compounds Qualified Due to Matrix Spike RPD Deviations

Analysis	Compounds	Number of Affected Samples	Qualification
PCDDs/PCDFs	1,2,3,4,7,8-HxCDD	1	J

Field duplicate samples were analyzed to evaluate the overall precision of laboratory and field procedures. The RPD between duplicate samples is required to be less than 50% for soil sample values greater than five times the PQL. Sample results for analytes that exceeded these limits were qualified as estimated (J). The analytes/compounds that did not meet field duplicate RPD requirements and the number of samples qualified due to those deviations are presented below.

Analytes/Compounds Qualified Due to Field Duplicate Deviations

Analysis	Analytes/Compounds	Number of Affected Samples	Qualification
Inorganics	Selenium	4	J
PCBs	Aroclor-1254	2	J
	Aroclor-1260	2	J

Analytes/Compounds Qualified Due to Field Duplicate Deviations

Analysis	Analytes/Compounds	Number of Affected Samples	Qualification
	Total PCBs	4	J
PCDDs/PCDFs	HpCDDs (total)	2	J
	HxCDDs (total)	2	J
	TCDFs (total)	2	J

The compounds listed below were qualified with the laboratory qualifier "Q". Q was defined by the laboratory as "Indicates the presence of quantitative interference". The quantitative interference occurred during the quantitation of the target compound and at times the quantitation of the associated internal. Sample results which were qualified by the laboratory with a "Q" or sample results where the associated internal were the sample result was qualified as estimated (J). The compounds which the laboratory identified with the data qualifier "Q" and the number of samples affected are presented below.

Compounds Qualified Due to Quantifiable Interference

Analysis	Compounds	Number of Affected Samples	Qualification Removed
PCDDs/PCDFs Target compounds	PeCDDs (total)	4	J
	PeCDFs (total)	7	J
	TCDDs (total)	1	J
	TCDFs (total)	3	J

5.0 Overall Data Usability

This section summarizes the analytical data in terms of its completeness and usability for site characterization purposes. Data completeness is defined as the percentage of sample results determined to be usable during the data validation process. Data completeness with respect to usability was calculated separately for inorganic and each of the organic analyses. The percent usability calculation included analyses evaluated under both the Tier I and Tier II data validation reviews. The percent usability calculation also includes quality control samples collected to aid in the evaluation of data usability. Therefore, field/equipment blank, trip blank, and field duplicate data determined to be unusable as a result of the validation process are represented in the percent usability value tabulated below.

Data Usability

Parameter	Percent Usability	Rejected Data
Inorganics	100	None
Cyanide and Sulfide	100	None
VOCs	100	None
SVOCs	100	None
Pesticides/Herbicides	100	None
PCDDs/PCDFs	100	None

The data package completeness as determined from the Tier I data review was used in combination with the data quality deviations identified during the Tier II data review to determine overall data quality. As specified in the FSP/QAPP, the overall precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters determined from the Tier I and Tier II data reviews were used as indicators of overall data quality. These parameters were assessed through an evaluation of the results of the field and laboratory QA/QC sample analyses to provide a measure of compliance of the analytical data with the Data Quality Objectives (DQOs) specified in the FSP/QAPP. Therefore, the following sections present summaries of the PARCC parameters assessment with regard to the DQOs specified in the FSP/QAPP.

5.1 Precision

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, it is a quantitative measure of the variability of a group of measurements compared to their average value. For this investigation, precision was defined as the RPD between duplicate sample results. The duplicate samples used to evaluate precision included laboratory duplicates, field duplicates, MS/MSD samples, and ICP serial dilution samples. For this analytical program, 0.02% of the data required qualification MS/MSD RPD deviations and 0.38% of the data required qualification field duplicate RPD deviations. None of the data required qualification for ICP serial dilution deviations or laboratory duplicate RPD deviations

5.2 Accuracy

Accuracy measures the bias in an analytical system or the degree of agreement of a measurement with a known reference value. For this investigation, accuracy was defined as the percent recovery of QA/QC samples that were spiked with a known concentration of an analyte or compound of interest. The QA/QC samples used to evaluate analytical accuracy included instrument calibration, internal standards, Laboratory Control Standards (LCSs), MS/MSD samples, CRDL samples, and surrogate compound recoveries. For this analytical program, 4.5% of the data required qualification for calibration deviations, 0.29% required qualification for CRDL standard recoveries, 0.31% required qualification for internal standard recoveries, and 0.36% required qualification for MS/MSD recoveries. None of the data required qualification for surrogate compound standard recovery deviations, internal standard recovery deviations, or LCS recovery deviations.

5.3 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness is a qualitative parameter which is most concerned with the proper design of the sampling program. The representativeness criterion is best satisfied by making certain that sampling locations are selected properly and a sufficient number of samples are collected. This parameter has been addressed by collecting samples at locations specified in Agency-approved work plans and by following the procedures for sample collection/analyses described in the FSP/QAPP. Additionally, the analytical program used procedures that were consistent with USEPA-approved analytical methodology. A QA/QC parameter that is an indicator of the representativeness of a sample is holding time. Holding time criteria are established to maintain the samples in a state that is representative of the in-situ field conditions before analysis. For this analytical program, none of the data required qualification for holding time analysis deviations.

5.4 Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. This goal was achieved through the use of the standardized techniques for sample collection and analysis presented in the FSP/QAPP. The USEPA SW-846[1] analytical methods presented in the FSP/QAPP are updated on occasion by the USEPA to benefit from recent technological advancements in analytical chemistry and instrumentation. In most cases, the method upgrades include the incorporation of new technologies that improve the sensitivity and stability of the instrumentation or allow the laboratory to increase throughput without hindering accuracy and precision. Overall, the analytical methods for this investigation have remained consistent in their general approach through continued use of the basic analytical techniques (i.e., sample extraction/preparation, instrument calibration, QA/QC procedures, etc.). Through this use of consistent base analytical procedures and by requiring that updated procedures meet the QA/QC criteria specified in the FSP/QAPP, the analytical data from past, present, and future sampling events will be comparable to allow for qualitative and quantitative assessment of site conditions.

5.5 Completeness

Completeness is defined as the percentage of measurements that are judged to be valid or usable to meet the prescribed DQOs. The completeness criterion is essentially the same for all data uses -- the generation of a sufficient amount of valid data. The actual completeness of this analytical data for individual analytical parameters and overall usability of this data set is 100.0%.

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

TABLE C-1
EAST STREET AREA 2-SOUTH SUPPLEMENTAL PRE-DESIGN INVESTIGATION

ANALYTICAL DATA VALIDATION SUMMARY
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs											
3E0P330	RAA4-DUP-1 (0 - 1)	5/14/03	Soil	Tier I	No						RAA4-L12
3E0P330	RAA4-E38S (0 - 1)	5/14/03	Soil	Tier I	No						
3E0P330	RAA4-E38S (1 - 6)	5/14/03	Soil	Tier I	No						
3E0P330	RAA4-E41S (0 - 1)	5/14/03	Soil	Tier I	No						
3E0P330	RAA4-E41S (1 - 6)	5/14/03	Soil	Tier I	No						
3E0P330	RAA4-L11 (0 - 1)	5/14/03	Soil	Tier I	No						
3E0P330	RAA4-L12 (0 - 1)	5/14/03	Soil	Tier I	No						
3E0P330	RAA4-M10 (0 - 1)	5/14/03	Soil	Tier I	No						
3E0P330	RAA4-M12 (0 - 1)	5/14/03	Soil	Tier I	No						
3E0P330	RAA4-N11 (0 - 1)	5/14/03	Soil	Tier I	No						
3E0P330	RAA4-N12 (0 - 1)	5/14/03	Soil	Tier I	No						
3E0P330	RAA4-N13 (0 - 1)	5/14/03	Soil	Tier I	No						
3E0P330	RAA4-N7 (0 - 1)	5/14/03	Soil	Tier I	No						
3E0P330	RAA4-O10 (0 - 1)	5/14/03	Soil	Tier I	No						
3E0P330	RAA4-O12 (0 - 1)	5/14/03	Soil	Tier I	No						
3E0P330	RAA4-O2 (0 - 1)	5/14/03	Soil	Tier I	No						
3E0P330	RAA4-O8 (0 - 1)	5/14/03	Soil	Tier I	No						
3E0P330	RAA4-P4 (0 - 1)	5/14/03	Soil	Tier I	No						
3E0P330	RAA4-P7 (0 - 1)	5/14/03	Soil	Tier I	No						
3E0P330	RB051403-1	5/14/03	Water	Tier I	No						
3E0P351	RAA4-C33S (0 - 1)	5/15/03	Soil	Tier II	No						
3E0P351	RAA4-C33S (1 - 6)	5/15/03	Soil	Tier II	No						
3E0P351	RAA4-DUP-2 (1 - 6)	5/15/03	Soil	Tier II	No						RAA4-F16
3E0P351	RAA4-F16 (0 - 1)	5/15/03	Soil	Tier II	No						
3E0P351	RAA4-F16 (1 - 6)	5/15/03	Soil	Tier II	No						
3E0P351	RAA4-H12 (0 - 1)	5/15/03	Soil	Tier II	No						
3E0P351	RAA4-H12 (1 - 6)	5/15/03	Soil	Tier II	No						
3E0P351	RAA4-I7 (0 - 1)	5/15/03	Soil	Tier II	No						
3E0P351	RAA4-I7 (1 - 6)	5/15/03	Soil	Tier II	No						
3E0P351	RAA4-Q3N (0 - 1)	5/15/03	Soil	Tier II	No						
3E0P351	RAA4-Q3N (1 - 3)	5/15/03	Soil	Tier II	No						
3E0P351	RAA4-Q3N (3 - 6)	5/15/03	Soil	Tier II	No						
3E0P351	RAA4-R5 (1 - 3)	5/15/03	Soil	Tier II	No						
3E0P351	RAA4-R5 (3 - 6)	5/15/03	Soil	Tier II	No						
3E0P351	RB051503-1	5/15/03	Water	Tier II	No						
3E0P384	RAA4-L13 (0 - 1)	5/16/03	Soil	Tier II	No						
3E0P384	RAA4-N10 (0 - 1)	5/16/03	Soil	Tier II	No						
3E0P384	RAA4-N14 (0 - 1)	5/16/03	Soil	Tier II	No						
3E0P384	RAA4-N6 (0 - 1)	5/16/03	Soil	Tier II	No						
3E0P384	RAA4-P5 (0 - 1)	5/16/03	Soil	Tier II	No						
3E0P384	RAA4-P8 (0 - 1)	5/16/03	Soil	Tier II	No						
3E0P446	RAA4-B33E (1 - 6)	5/20/03	Soil	Tier II	No						
3E0P446	RAA4-B33E (6 - 15)	5/20/03	Soil	Tier II	No						
3E0P446	RAA4-C30S (0 - 1)	5/20/03	Soil	Tier II	No						
3E0P446	RAA4-C30S (1 - 6)	5/20/03	Soil	Tier II	No						
3E0P446	RAA4-DUP-3 (1 - 6)	5/20/03	Soil	Tier II	Yes	Aroclor-1254	Field Duplicate RPD (Soil)	70.6%	<50%	23 J	RAA4-E30S
						Total PCBs	Field Duplicate RPD (Soil)	55.8%	<50%	55 J	
3E0P446	RAA4-DUP-4 (0 - 1)	5/20/03	Soil	Tier II	Yes	Aroclor-1260	Field Duplicate RPD (Soil)	107.7%	<50%	21 J	RAA4-G23
						Total PCBs	Field Duplicate RPD (Soil)	107.7%	<50%	21 J	

TABLE C-1
EAST STREET AREA 2-SOUTH SUPPLEMENTAL PRE-DESIGN INVESTIGATION

ANALYTICAL DATA VALIDATION SUMMARY
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs (continued)											
3E0P446	RAA4-E30S (0 - 1)	5/20/03	Soil	Tier II	No						
3E0P446	RAA4-E30S (1 - 6)	5/20/03	Soil	Tier II	Yes	Aroclor-1254	Field Duplicate RPD (Soil)	70.6%	<50%	11 J	
						Total PCBs	Field Duplicate RPD (Soil)	55.8%	<50%	31 J	
3E0P446	RAA4-F28 (0 - 1)	5/20/03	Soil	Tier II	No						
3E0P446	RAA4-F28 (1 - 6)	5/20/03	Soil	Tier II	No						
3E0P446	RAA4-G23 (0 - 1)	5/20/03	Soil	Tier II	Yes	Aroclor-1260	Field Duplicate RPD (Soil)	107.7%	<50%	70 J	
						Total PCBs	Field Duplicate RPD (Soil)	107.7%	<50%	70 J	
3E0P446	RAA4-G23 (1 - 3)	5/20/03	Soil	Tier II	No						
3E0P446	RAA4-G28 (0 - 1)	5/20/03	Soil	Tier II	No						
3E0P446	RAA4-G28 (1 - 6)	5/20/03	Soil	Tier II	No						
3E0P446	RAA4-H27S (0 - 1)	5/20/03	Soil	Tier II	No						
3E0P446	RAA4-H27S (1 - 6)	5/20/03	Soil	Tier II	No						
3E0P446	RAA4-H28S (0 - 1)	5/20/03	Soil	Tier II	No						
3E0P446	RAA4-H28S (1 - 6)	5/20/03	Soil	Tier II	No						
3E0P446	RAA4-L14 (0 - 1)	5/20/03	Soil	Tier II	No						
3E0P446	RAA4-L15 (0 - 1)	5/20/03	Soil	Tier II	No						
3E0P446	RAA4-L17 (0 - 1)	5/20/03	Soil	Tier II	No						
3E0P446	RAA4-P11 (0 - 1)	5/20/03	Soil	Tier II	No						
3E0P446	RB-052003-1	5/20/03	Water	Tier II	No						
3E0P479	RAA4-D26S (0 - 1)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-D26S (1 - 6)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-DUP-5 (1 - 6)	5/21/03	Soil	Tier II	No						RAA4-E16
3E0P479	RAA4-E16 (0 - 1)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-E16 (1 - 6)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-E22 (0 - 1)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-E22 (1 - 6)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-F18 (0 - 1)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-F18 (1 - 6)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-F23S (0 - 1)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-F23S (1 - 6)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-G18N (0 - 1)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-G18N (1 - 6)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-G20 (0 - 1)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-G20 (1 - 6)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-H3S (0 - 1)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-H3S (1 - 6)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-H3W (0 - 1)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-I3W (0 - 1)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-J4 (0 - 1)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-J4 (1 - 6)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-K20 (0 - 1)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-K20 (1 - 6)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-L16 (0 - 1)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-M24 (0 - 1)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-M24 (1 - 3)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-M24 (3 - 6)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-M4 (0 - 1)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-M4 (1 - 6)	5/21/03	Soil	Tier II	No						
3E0P479	RAA4-P10 (0 - 1)	5/21/03	Soil	Tier II	No						
3E0P479	RB-052103-1	5/21/03	Water	Tier II	No						

TABLE C-1
EAST STREET AREA 2-SOUTH SUPPLEMENTAL PRE-DESIGN INVESTIGATION

ANALYTICAL DATA VALIDATION SUMMARY
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Metals											
3E0P351	RAA4-R5 (3 - 6)	5/15/2003	Soil	Tier II	Yes	Selenium	CRDL Standard %R	173.7%	75% to 125%	2.40 J	
						Thallium	CRDL Standard %R	138.7%	75% to 125%	1.30 J	
3E0P384	RAA4-L13 (0 - 1)	5/16/2003	Soil	Tier II	Yes	Selenium	CRDL Standard %R	136.8%	75% to 125%	1.20 J	
						Thallium	CRDL Standard %R	138.7%	75% to 125%	ND(1.10) J	
						Tin	Method Blank	-	-	ND(10)	
3E0P384	RAA4-N10 (0 - 1)	5/16/2003	Soil	Tier II	Yes	Selenium	CRDL Standard %R	136.8%	75% to 125%	1.50 J	
						Thallium	CRDL Standard %R	138.7%	75% to 125%	ND(1.10) J	
3E0P384	RAA4-N14 (0 - 1)	5/16/2003	Soil	Tier II	Yes	Selenium	CRDL Standard %R	136.8%	75% to 125%	1.00 J	
						Thallium	CRDL Standard %R	138.7%	75% to 125%	ND(1.10) J	
						Tin	Method Blank	-	-	ND(12)	
3E0P384	RAA4-N6 (0 - 1)	5/16/2003	Soil	Tier II	Yes	Selenium	CRDL Standard %R	136.8%	75% to 125%	1.70 J	
						Thallium	CRDL Standard %R	138.7%	75% to 125%	1.00 J	
						Tin	Method Blank	-	-	ND(17)	
3E0P384	RAA4-P5 (0 - 1)	5/16/2003	Soil	Tier II	Yes	Selenium	CRDL Standard %R	136.8%	75% to 125%	1.30 J	
						Thallium	CRDL Standard %R	138.7%	75% to 125%	ND(1.10) J	
						Tin	Method Blank	-	-	ND(13)	
3E0P384	RAA4-P8 (0 - 1)	5/16/2003	Soil	Tier II	Yes	Selenium	CRDL Standard %R	136.8%	75% to 125%	1.40 J	
						Thallium	CRDL Standard %R	138.7%	75% to 125%	ND(1.10) J	
						Tin	Method Blank	-	-	ND(12)	
3E0P446	RAA4-B33E (1 - 6)	5/20/2003	Soil	Tier II	Yes	Lead	MS %R	403.8%	75% to 125%	35.0 J	
						Mercury	MS %R	125.0%	80% to 120%	0.0630 J	
						Selenium	Field Duplicate RPD (Soil)	52.6%	<50%	0.770 J	
						Zinc	MS %R	133.8%	75% to 125%	46.0 J	
3E0P446	RAA4-DUP-1 (1 - 3)	5/20/2003	Soil	Tier II	Yes	Lead	MS %R	403.8%	75% to 125%	53.0 J	RAA4-P11
						Mercury	MS %R	125.0%	80% to 120%	0.0170 J	
						Selenium	Field Duplicate RPD (Soil)	52.6%	<50%	1.40 J	
						Zinc	MS %R	133.8%	75% to 125%	400 J	
3E0P446	RAA4-P11 (0 - 1)	5/20/2003	Soil	Tier II	Yes	Lead	MS %R	403.8%	75% to 125%	260 J	
						Mercury	MS %R	125.0%	80% to 120%	0.0960 J	
						Selenium	Field Duplicate RPD (Soil)	52.6%	<50%	1.40 J	
						Zinc	MS %R	133.8%	75% to 125%	620 J	
3E0P446	RAA4-P11 (1 - 3)	5/20/2003	Soil	Tier II	Yes	Lead	MS %R	403.8%	75% to 125%	51.0 J	
						Mercury	MS %R	125.0%	80% to 120%	0.0350 J	
						Selenium	Field Duplicate RPD (Soil)	52.6%	<50%	2.40 J	
						Zinc	MS %R	133.8%	75% to 125%	490 J	
3E0P446	RB-052003-1	5/20/2003	Water	Tier II	No						
3E0P479	RAA4-L16 (0 - 1)	5/21/2003	Soil	Tier II	No						

TABLE C-1
EAST STREET AREA 2-SOUTH SUPPLEMENTAL PRE-DESIGN INVESTIGATION

ANALYTICAL DATA VALIDATION SUMMARY
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs											
3E0P351	RAA4-R5 (3 - 4)	5/15/2003	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.12) J	
						Acetonitrile	ICAL RRF	0.041	>0.05	ND(0.12) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.12) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.12) J	
3E0P384	RAA4-L13 (0 - 1)	5/16/2003	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.11) J	
						Acetonitrile	ICAL RRF	0.041	>0.05	ND(0.11) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.11) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.11) J	
3E0P384	RAA4-N10 (0 - 1)	5/16/2003	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.11) J	
						Acetonitrile	ICAL RRF	0.041	>0.05	ND(0.11) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.11) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.11) J	
3E0P384	RAA4-N14 (0 - 1)	5/16/2003	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.11) J	
						Acetonitrile	ICAL RRF	0.041	>0.05	ND(0.11) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.11) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.11) J	
3E0P384	RAA4-N6 (0 - 1)	5/16/2003	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.12) J	
						Acetonitrile	ICAL RRF	0.041	>0.05	ND(0.12) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.12) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.12) J	
3E0P384	RAA4-P5 (0 - 1)	5/16/2003	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.11) J	
						Acetonitrile	ICAL RRF	0.041	>0.05	ND(0.11) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.11) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.11) J	
3E0P384	RAA4-P8 (0 - 1)	5/16/2003	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.11) J	
						Acetonitrile	ICAL RRF	0.041	>0.05	ND(0.11) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.11) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.11) J	
3E0P384	TRIP BLANK	5/16/2003	Water	Tier II	Yes	2-Chloroethylvinylether	ICAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.048	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.001	>0.05	ND(0.10) J	
						Dichlorodifluoromethane	CCAL %D	34.0%	<25%	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.015	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.014	>0.05	ND(0.010) J	
						Vinyl Acetate	CCAL %D	34.8%	<25%	ND(0.0050) J	
3E0P446	RAA4-B33E (3 - 4)	5/20/2003	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.11) J	
						Acetone	CCAL %D	28.0%	<25%	ND(0.022) J	
						Acetonitrile	ICAL RRF	0.041	>0.05	ND(0.11) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.11) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.11) J	
3E0P446	RAA4-DUP-1 (0 - 1)	5/20/2003	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.11) J	RAA4-P11
						Acetone	CCAL %D	28.0%	<25%	ND(0.022) J	
						Acetonitrile	ICAL RRF	0.041	>0.05	ND(0.11) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.11) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.11) J	

TABLE C-1
EAST STREET AREA 2-SOUTH SUPPLEMENTAL PRE-DESIGN INVESTIGATION

ANALYTICAL DATA VALIDATION SUMMARY
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
3E0P446	RAA4-P11 (0 - 1)	5/20/2003	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.11) J	
						Acetone	CCAL %D	28.0%	<25%	ND(0.021) J	
						Acetonitrile	ICAL RRF	0.041	>0.05	ND(0.11) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.11) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.11) J	
3E0P446	RAA4-P11 (1 - 3)	5/20/2003	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.11) J	
						Acetone	CCAL %D	28.0%	<25%	ND(0.022) J	
						Acetonitrile	ICAL RRF	0.041	>0.05	ND(0.11) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.11) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.11) J	
3E0P446	RB-052003-1	5/20/2003	Water	Tier II	Yes	2-Chloroethylvinylether	ICAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.048	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.001	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.015	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.014	>0.05	ND(0.010) J	
3E0P446	TRIP BLANK	5/20/2003	Water	Tier II	Yes	2-Chloroethylvinylether	ICAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.048	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.001	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.015	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.014	>0.05	ND(0.010) J	
3E0P479	RAA4-L16 (0 - 1)	5/21/2003	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.11) J	
						Acetone	CCAL %D	28.0%	<25%	ND(0.022) J	
						Acetonitrile	ICAL RRF	0.041	>0.05	ND(0.11) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.11) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.11) J	
3E0P479	TRIP BLANK	5/21/2003	Water	Tier II	Yes	2-Chloroethylvinylether	ICAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.048	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.001	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.015	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.014	>0.05	ND(0.010) J	

TABLE C-1
EAST STREET AREA 2-SOUTH SUPPLEMENTAL PRE-DESIGN INVESTIGATION

ANALYTICAL DATA VALIDATION SUMMARY
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs											
3E0P351	RAA4-R5 (3 - 6)	5/15/2003	Soil	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	43.0%	<25%	ND(0.38) J	
						2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(2.0) J	
						4-Chlorobenzilate	CCAL %D	35.5%	<25%	ND(0.77) J	
						4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(2.0) J	
						Benzidine	CCAL %D	32.1%	<25%	ND(0.77) J	
						Ethyl Methanesulfonate	CCAL %D	25.6%	<25%	ND(0.38) J	
						Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.38) J	
						Hexachloropropene	CCAL %D	74.9%	<25%	ND(0.38) J	
						Phenacetin	CCAL %D	25.6%	<25%	ND(0.77) J	
3E0P384	RAA4-L13 (0 - 1)	5/16/2003	Soil	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	43.0%	<25%	ND(0.37) J	
						2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(1.9) J	
						4-Chlorobenzilate	CCAL %D	35.5%	<25%	ND(0.74) J	
						4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(1.9) J	
						Benzidine	CCAL %D	32.1%	<25%	ND(0.74) J	
						Ethyl Methanesulfonate	CCAL %D	25.6%	<25%	ND(0.37) J	
						Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.37) J	
						Hexachloropropene	CCAL %D	74.9%	<25%	ND(0.37) J	
						Phenacetin	CCAL %D	25.6%	<25%	ND(0.74) J	
3E0P384	RAA4-N10 (0 - 1)	5/16/2003	Soil	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	43.0%	<25%	ND(0.38) J	
						2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(1.9) J	
						4-Chlorobenzilate	CCAL %D	35.5%	<25%	ND(0.76) J	
						4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(1.9) J	
						Benzidine	CCAL %D	32.1%	<25%	ND(0.76) J	
						Ethyl Methanesulfonate	CCAL %D	25.6%	<25%	ND(0.38) J	
						Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.38) J	
						Hexachloropropene	CCAL %D	74.9%	<25%	ND(0.38) J	
						Phenacetin	CCAL %D	25.6%	<25%	ND(0.76) J	
3E0P384	RAA4-N14 (0 - 1)	5/16/2003	Soil	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	43.0%	<25%	ND(0.37) J	
						2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(1.9) J	
						4-Chlorobenzilate	CCAL %D	35.5%	<25%	ND(0.74) J	
						4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(1.9) J	
						Benzidine	CCAL %D	32.1%	<25%	ND(0.74) J	
						Ethyl Methanesulfonate	CCAL %D	25.6%	<25%	ND(0.37) J	
						Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.37) J	
						Hexachloropropene	CCAL %D	74.9%	<25%	ND(0.37) J	
						Phenacetin	CCAL %D	25.6%	<25%	ND(0.74) J	
3E0P384	RAA4-N6 (0 - 1)	5/16/2003	Soil	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	43.0%	<25%	ND(0.40) J	
						2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(2.0) J	
						4-Chlorobenzilate	CCAL %D	35.5%	<25%	ND(0.80) J	
						4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(2.0) J	
						Benzidine	CCAL %D	32.1%	<25%	ND(0.80) J	
						Ethyl Methanesulfonate	CCAL %D	25.6%	<25%	ND(0.40) J	
						Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.40) J	
						Hexachloropropene	CCAL %D	74.9%	<25%	ND(0.40) J	
						Phenacetin	CCAL %D	25.6%	<25%	ND(0.80) J	

TABLE C-1
EAST STREET AREA 2-SOUTH SUPPLEMENTAL PRE-DESIGN INVESTIGATION

ANALYTICAL DATA VALIDATION SUMMARY
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
3E0P384	RAA4-P5 (0 - 1)	5/16/2003	Soil	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	43.0%	<25%	ND(0.38) J	
						2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(1.9) J	
						4-Chlorobenzilate	CCAL %D	35.5%	<25%	ND(0.76) J	
						4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(1.9) J	
						Benzidine	CCAL %D	32.1%	<25%	ND(0.76) J	
						Ethyl Methanesulfonate	CCAL %D	25.6%	<25%	ND(0.38) J	
						Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.38) J	
						Hexachloropropene	CCAL %D	74.9%	<25%	ND(0.38) J	
						Phenacetin	CCAL %D	25.6%	<25%	ND(0.76) J	
3E0P384	RAA4-P8 (0 - 1)	5/16/2003	Soil	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	43.0%	<25%	ND(0.52) J	
						2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(2.6) J	
						4-Chlorobenzilate	CCAL %D	35.5%	<25%	ND(0.76) J	
						4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(2.6) J	
						Benzidine	CCAL %D	32.1%	<25%	ND(1.0) J	
						Ethyl Methanesulfonate	CCAL %D	25.6%	<25%	ND(0.52) J	
						Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.52) J	
						Hexachloropropene	CCAL %D	74.9%	<25%	ND(0.52) J	
						Phenacetin	CCAL %D	25.6%	<25%	ND(0.76) J	
3E0P446	RAA4-B33E (1 - 6)	5/20/2003	Soil	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL %D	61.9%	<25%	ND(0.37) J	
						2,3,4,6-Tetrachlorophenol	CCAL %D	38.7%	<25%	ND(0.37) J	
						2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(1.9) J	
						4-Chlorobenzilate	CCAL %D	26.1%	<25%	ND(0.74) J	
						4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(1.9) J	
						Aramite	CCAL %D	27.0%	<25%	ND(0.74) J	
						Benzidine	CCAL %D	26.6%	<25%	ND(0.74) J	
						Benzyl Alcohol	CCAL %D	33.5%	<25%	ND(0.74) J	
						Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.37) J	
						Hexachlorophene	ICAL RRF	0.029	>0.05	ND(0.74) J	
						Hexachloropropene	CCAL %D	51.8%	<25%	ND(0.37) J	
						o,o,o-Triethylphosphorothioa	CCAL %D	28.4%	<25%	ND(0.37) J	
						Pentachlorobenzene	CCAL %D	34.6%	<25%	ND(0.37) J	
						Pentachloronitrobenzene	CCAL %D	28.6%	<25%	ND(0.74) J	
						Pronamide	CCAL %D	25.8%	<25%	ND(0.37) J	
3E0P446	RAA4-DUP-1 (1 - 3)	5/20/2003	Soil	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL %D	61.9%	<25%	ND(0.36) J	RAA4-P11
						2,3,4,6-Tetrachlorophenol	CCAL %D	38.7%	<25%	ND(0.36) J	
						2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(1.8) J	
						4-Chlorobenzilate	CCAL %D	26.1%	<25%	ND(0.72) J	
						4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(1.8) J	
						Aramite	CCAL %D	27.0%	<25%	ND(0.72) J	
						Benzidine	CCAL %D	26.6%	<25%	ND(0.72) J	
						Benzyl Alcohol	CCAL %D	33.5%	<25%	ND(0.72) J	
						Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.36) J	
						Hexachlorophene	ICAL RRF	0.029	>0.05	ND(0.72) J	
						Hexachloropropene	CCAL %D	51.8%	<25%	ND(0.36) J	
						o,o,o-Triethylphosphorothioa	CCAL %D	28.4%	<25%	ND(0.36) J	
						Pentachlorobenzene	CCAL %D	34.6%	<25%	ND(0.36) J	
						Pentachloronitrobenzene	CCAL %D	28.6%	<25%	ND(0.72) J	
						Pronamide	CCAL %D	25.8%	<25%	ND(0.36) J	

TABLE C-1
EAST STREET AREA 2-SOUTH SUPPLEMENTAL PRE-DESIGN INVESTIGATION

ANALYTICAL DATA VALIDATION SUMMARY
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
3E0P446	RAA4-P11 (0 - 1)	5/20/2003	Soil	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL %D	61.9%	<25%	ND(0.36) J	
						2,3,4,6-Tetrachlorophenol	CCAL %D	38.7%	<25%	ND(0.36) J	
						2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(1.8) J	
						4-Chlorobenzilate	CCAL %D	26.1%	<25%	ND(0.71) J	
						4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(1.8) J	
						Aramite	CCAL %D	27.0%	<25%	ND(0.71) J	
						Benzidine	CCAL %D	26.6%	<25%	ND(0.71) J	
						Benzyl Alcohol	CCAL %D	33.5%	<25%	ND(0.71) J	
						Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.36) J	
						Hexachlorophene	ICAL RRF	0.029	>0.05	ND(0.71) J	
						Hexachloropropene	CCAL %D	51.8%	<25%	ND(0.36) J	
						o,o,o-Triethylphosphorothioa	CCAL %D	28.4%	<25%	ND(0.36) J	
						Pentachlorobenzene	CCAL %D	34.6%	<25%	ND(0.36) J	
						Pentachloronitrobenzene	CCAL %D	28.6%	<25%	ND(0.71) J	
						Pronamide	CCAL %D	25.8%	<25%	ND(0.36) J	
3E0P446	RAA4-P11 (1 - 3)	5/20/2003	Soil	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL %D	61.9%	<25%	ND(0.36) J	
						2,3,4,6-Tetrachlorophenol	CCAL %D	38.7%	<25%	ND(0.36) J	
						2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(1.8) J	
						4-Chlorobenzilate	CCAL %D	26.1%	<25%	ND(0.73) J	
						4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(1.8) J	
						Aramite	CCAL %D	27.0%	<25%	ND(0.73) J	
						Benzidine	CCAL %D	26.6%	<25%	ND(0.73) J	
						Benzyl Alcohol	CCAL %D	33.5%	<25%	ND(0.73) J	
						Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.36) J	
						Hexachlorophene	ICAL RRF	0.029	>0.05	ND(0.73) J	
						Hexachloropropene	CCAL %D	51.8%	<25%	ND(0.36) J	
						o,o,o-Triethylphosphorothioa	CCAL %D	28.4%	<25%	ND(0.36) J	
						Pentachlorobenzene	CCAL %D	34.6%	<25%	ND(0.36) J	
						Pentachloronitrobenzene	CCAL %D	28.6%	<25%	ND(0.73) J	
						Pronamide	CCAL %D	25.8%	<25%	ND(0.36) J	
3E0P446	RB-052003-1	5/20/2003	Water	Tier II	Yes	2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(0.050) J	
						4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(0.050) J	
						Benzidine	CCAL %D	32.8%	<25%	ND(0.020) J	
						Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.010) J	
						Hexachlorophene	ICAL RRF	0.029	>0.05	ND(0.020) J	
						Hexachloropropene	CCAL %D	44.9%	<25%	ND(0.010) J	
						Pentachlorobenzene	CCAL %D	31.1%	<25%	ND(0.010) J	
3E0P479	RAA4-L16 (0 - 1)	5/21/2003	Soil	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	39.8%	<25%	ND(0.38) J	
						2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(1.9) J	
						4-Chlorobenzilate	CCAL %D	28.8%	<25%	ND(0.76) J	
						4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(1.9) J	
						Benzyl Alcohol	CCAL %D	43.6%	<25%	ND(0.76) J	
						Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.38) J	
						Hexachlorophene	ICAL RRF	0.029	>0.05	ND(0.76) J	
						Pentachloronitrobenzene	CCAL %D	28.6%	<25%	ND(0.76) J	

TABLE C-1
EAST STREET AREA 2-SOUTH SUPPLEMENTAL PRE-DESIGN INVESTIGATION

ANALYTICAL DATA VALIDATION SUMMARY
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCDDs/PCDFs											
3E0P351	RAA4-R5 (3 - 6)	5/15/2003	Soil	Tier II	No						
3E0P384	RAA4-L13 (0 - 1)	5/16/2003	Soil	Tier II	Yes	TCDFs (total)	Quantitative interference	-	-	0.00026 QIJ	
						TCDDs (total)	Quantitative interference	-	-	0.0000017 QJ	
						PeCDFs (total)	Quantitative interference	-	-	0.00022 QIJ	
						PeCDDs (total)	Quantitative interference	-	-	0.0000034 QJ	
						OCDD	Method Blank	-	-	ND(0.000056)	
3E0P384	RAA4-N10 (0 - 1)	5/16/2003	Soil	Tier II	Yes	PeCDFs (total)	Quantitative interference	-	-	0.000055 QIJ	
						OCDD	Method Blank	-	-	ND(0.000060)	
3E0P384	RAA4-N14 (0 - 1)	5/16/2003	Soil	Tier II	Yes	OCDD	Method Blank	-	-	ND(0.000053)	
3E0P384	RAA4-N6 (0 - 1)	5/16/2003	Soil	Tier II	Yes	PeCDFs (total)	Quantitative interference	-	-	0.00054 QJ	
3E0P384	RAA4-P5 (0 - 1)	5/16/2003	Soil	Tier II	Yes	TCDFs (total)	Quantitative interference	-	-	0.00030 QJ	
						PeCDFs (total)	Quantitative interference	-	-	0.00016 QJ	
						PeCDDs (total)	Quantitative interference	-	-	0.0000021 QJ	
3E0P384	RAA4-P8 (0 - 1)	5/16/2003	Soil	Tier II	Yes	PeCDDs (total)	Quantitative interference	-	-	0.0000035 QJ	
3E0P446	RAA4-B33E (1 - 6)	5/20/2003	Soil	Tier II	Yes	TCDFs (total)	Quantitative interference	-	-	0.00029 QJ	
						PeCDFs (total)	Quantitative interference	-	-	0.00014 QJ	
3E0P446	RAA4-DUP-1 (1 - 3)	5/20/2003	Soil	Tier II	Yes	HxCDDs (total)	Field Duplicate RPD (Soil)	67.6%	<50%	0.000020 J	RAA4-P11
						HpCDDs (total)	Field Duplicate RPD (Soil)	59.5%	<50%	0.0000092 J	
						TCDFs (total)	Field Duplicate RPD (Soil)	74.5%	<50%	0.000094 J	
3E0P446	RAA4-P11 (0 - 1)	5/20/2003	Soil	Tier II	Yes	PeCDDs (total)	Quantitative interference	-	-	ND(0.0000057) QJ	
						1,2,3,4,7,8-HxCDD	MS %R	140.0%	75% to 125%	0.0000045 J	
						1,2,3,4,7,8-HxCDD	MS/MSD RPD	24.0%	<20%	0.0000045 J	
3E0P446	RAA4-P11 (1 - 3)	5/20/2003	Soil	Tier II	Yes	PeCDFs (total)	Quantitative interference	-	-	0.00016 QJ	
						HxCDDs (total)	Field Duplicate RPD (Soil)	67.6%	<50%	0.0000099 J	
						HpCDDs (total)	Field Duplicate RPD (Soil)	59.5%	<50%	0.000017 J	
						TCDFs (total)	Field Duplicate RPD (Soil)	74.5%	<50%	0.000043 J	
3E0P446	RB-052003-1	5/20/2003	Soil	Tier II	No						
3E0P479	RAA4-L16 (0 - 1)	5/21/2003	Soil	Tier II	Yes	PeCDFs (total)	Quantitative interference	-	-	0.014 QJ	
Sulfide and Cyanide											
3E0P351	RAA4-R5 (3 - 6)	5/15/2003	Soil	Tier II	No						
3E0P384	RAA4-L13 (0 - 1)	5/16/2003	Soil	Tier II	No						
3E0P384	RAA4-N10 (0 - 1)	5/16/2003	Soil	Tier II	No						
3E0P384	RAA4-N14 (0 - 1)	5/16/2003	Soil	Tier II	No						
3E0P384	RAA4-N6 (0 - 1)	5/16/2003	Soil	Tier II	No						
3E0P384	RAA4-P5 (0 - 1)	5/16/2003	Soil	Tier II	No						
3E0P384	RAA4-P8 (0 - 1)	5/16/2003	Soil	Tier II	No						
3E0P446	RAA4-B33E (1 - 6)	5/20/2003	Soil	Tier II	Yes	Cyanide	MS %R	160.0%	75% to 125%	2.20 J	
3E0P446	RAA4-DUP-1 (1 - 3)	5/20/2003	Soil	Tier II	Yes	Cyanide	MS %R	160.0%	75% to 125%	0.100 J	RAA4-P11
3E0P446	RAA4-P11 (0 - 1)	5/20/2003	Soil	Tier II	Yes	Cyanide	MS %R	160.0%	75% to 125%	0.0990 J	
3E0P446	RAA4-P11 (1 - 3)	5/20/2003	Soil	Tier II	Yes	Cyanide	MS %R	160.0%	75% to 125%	0.130 J	
3E0P446	RB-052003-1	5/20/2003	Water	Tier II	No						
3E0P479	RAA4-L16 (0 - 1)	5/21/2003	Soil	Tier II	No						