

Transmitted via Overnight Carrier

August 12, 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
Newell Street Area II (GEC450)
Supplemental Pre-Design Investigation Report**

Dear Mr. Olson:

In October 2001, the General Electric Company (GE) submitted to the U.S. Environmental Protection Agency (EPA) the *Pre-Design Investigation Work Plan for the Newell Street Area II Removal Action* (PDI Work Plan). Subsequently, in May 2002, GE submitted to EPA a document titled *Newell Street Area II Pre-Design Investigation Work Plan Addendum* (PDI Work Plan Addendum). The PDI Work Plan and the May 2002 PDI Work Plan Addendum, collectively referred to as the PDI Work Plans, were conditionally approved by EPA in letters dated April 18, 2002 and August 21, 2002, respectively. GE completed the field investigations described in the PDI Work Plans between September and October 2002. Those field investigations are summarized in the *Pre-Design Investigation Report for Newell Street Area II Removal Action* (PDI Report) dated February 2003.

The PDI Report summarized the pre-design soil investigations performed by GE within Newell Street Area II, and evaluated the sufficiency of the available data (including the pre-design data, data from prior soil investigations, and EPA sampling data) to satisfy the pre-design soil sampling requirements and to support the development of a Conceptual Removal Design/Removal Action (RD/RA) Work Plan. Based on this assessment, GE found that the available soil characterization data were generally sufficient. However, GE did identify data needs related to the future evaluation of soils located in close proximity to some subsurface utilities, and additional data needs to allow a property owned by the City of Pittsfield to be evaluated as a separate averaging area. Supplemental sampling to satisfy these data needs was proposed in the PDI Report.

In a letter dated April 21, 2003, EPA conditionally approved the PDI Report and identified certain modifications related to the soil sampling proposed in the PDI Report. The letter also made other comments concerning the tables and figures presented in the PDI Report. GE confirmed that it had made the required changes in a May 5, 2003 letter to EPA.

This *Supplemental Pre-Design Investigation Report* (Supplemental PDI Report) summarizes the supplemental soil investigations and addresses several of EPA's general comments to tables and figures presented in the PDI Report. Those EPA comments not addressed herein will be addressed in future submittals.

A. Summary of Supplemental Pre-Design Soil Sampling

The supplemental soil investigation was performed by Blasland, Bouck & Lee, Inc. (BBL) on June 4, 2003, while CT&E Environmental Services, Inc. provided analytical services. In total, the supplemental soil sampling effort involved collecting and analyzing 13 soil samples from six locations. The scope of investigations is summarized below.

- As part of the pre-design soil investigations, a more detailed assessment of subsurface utilities and corresponding utility bands was performed. This utility assessment revealed that a 20-inch sanitary sewer line located in the western portion of Newell Street Area II is within the boundaries of the thin strip of land discussed below owned by the City of Pittsfield, and thus needed to be moved on the maps approximately 15 to 20 feet to the east of where it was shown on the maps in the PDI Work Plans. Due to this change, an approximate 220-foot portion of the 50-foot-wide utility band along this sewer line did not have sufficient polychlorinated biphenyl (PCB) data to characterize the soils consistent with prior pre-design investigations (i.e., PCB data every 100 to 150 linear feet to the depth of the utility). Thus, additional pre-design samples were collected for PCB analysis from boring location RAA13-C88 to the depth of the bottom of the utility trench bedding. At the time of preparation of the PDI Work Plans, sampling to a 7-foot depth was proposed because the sewer line was 7 feet below the ground surface. Based on discussions with the City of Pittsfield Engineer in the course of responding to EPA's April 21, 2003 conditional approval letter, it was learned that the bottom of the utility trench bedding can extend 2 feet below the invert of the utility pipe. Thus, although the PDI Report proposed sampling from the 1- to 3-foot, 3- to 6-foot, and 6- to 7-foot depth increments, samples actually were taken from the 1- to 3-foot, 3- to 6-foot, and 6- to 9-foot depth increments. This change was made pursuant to Condition No. 1 of the April 21, 2003 conditional approval letter and was confirmed in GE's May 5, 2003 response to the conditional approval letter.
- As a result of the rejection of certain historic PCB data through the evaluation of the sufficiency of the data summarized in the PDI Report, an approximate 230-foot segment of a 48-inch sewer line did not have sufficient PCB data to characterize the soils in the proximity of the utility. Thus, additional pre-design soil samples were collected for PCB analysis from boring location RAA13-Z90 to the depth of the bottom of the utility trench bedding. As with the sewer line described above, although this sewer line was 12 feet below ground surface, discussions with the City of Pittsfield Engineer indicated that the bottom of the utility trench bedding for this sewer line was several feet deeper. Therefore, although the PDI Report proposed sampling from the 1- to 3-foot, 3- to 6-foot, 6- to 10-foot, and 10- to 12-foot depth increments, samples were actually taken from the 1- to 3-foot, 3- to 6-foot, 6- to 10-foot, and 10- to 15-foot depth increments. This change also was made pursuant to Condition No. 1 of the April 21, 2003 conditional approval letter and was confirmed in GE's May 5, 2003 response to the conditional approval letter.
- Subsequent to submittal of the PDI Work Plans, GE determined that the thin strip of land situated to the southwest of Parcel J9-23-8, and on which overhead electric utility lines and a sanitary sewer line are located, is owned by the City of Pittsfield. Previously, this land was thought to be an easement rather than a separately owned property. Accordingly, to support future RD/RA evaluations of this City-owned property as a separate averaging area, GE collected and analyzed seven soil samples at four locations from within this parcel for one or more groups of Appendix IX+3 constituents.
- To better characterize the soils on the western portion of Parcel J9-23-8, a soil sample was collected at boring location RAA13-Z88 from the 3- to 6-foot depth increment and analyzed for semi-volatile organic compounds (SVOCs), polychlorinated dibenzo-p-dioxins/polychlorinated dibenzofurans (PCDDs/PCDFs), and inorganics. This sample was taken pursuant to Condition No. 2(b) of the April 21, 2003 conditional approval letter.

The supplemental soil sampling and analyses are summarized in the table below.

Parcel ID	Sample Location	Sample Depth (feet)	Analyses Performed				
			PCBs	VOCs	SVOCs	Inorganics	PCDDs/P CDFs
City of Pittsfield	RAA13-C88	1-3	X	X	X	X	X
	RAA13-C88	3-6	X	--	--	--	--
	RAA13-C88	6-9	X	X	X	X	--
	RAA13-F91	1-3	--	X	X	X	X
	RAA13-F91	3-6	--	X	X	X	X
	RAA13-G92	1-3	--	X	X	X	X
	RAA13-G92	10-15	--	X	X	X	--
	SL0131	0-1	--	X	--	--	--
J9-23-8	RAA13-Z88	3-6	--	--	X	X	X
	RAA13-Z90	1-3	X	--	--	--	--
	RAA13-Z90	3-6	X	--	--	--	--
	RAA13-Z90	6-10	X	--	--	--	--
	RAA13-Z90	10-15	X	--	--	--	--

Notes:

-- = Analysis was not performed.
 VOCs = Volatile Organic Compounds

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)*. The boring logs for each location are presented in Attachment A.

Figure 1, attached, provides an overall site map. Figure 2 shows the identities of the different parcels that collectively comprise Newell Street Area II. The supplemental sample locations, along with the locations of the samples collected by GE and EPA during the pre-design investigations and the locations of usable historical samples, are identified on Figure 3 (for PCB samples) and Figures 4 through 8 (for samples analyzed for other Appendix IX+3 constituents). The data resulting from the collection of the supplemental soil samples are presented in Tables 1 and 2 (PCB and Appendix IX+3 data, respectively). Table 2 summarizes the results for constituents that were detected in one or more samples, while a complete listing of the Appendix IX+3 laboratory results is included in Attachment B.

The supplemental pre-design soil analytical data have undergone data review validation in accordance with Section 7.5 of the FSP/QAPP. The results of this data validation are presented in Attachment C. As discussed in that report, 100% of the GE supplemental pre-design data are considered to be usable, which is greater than the minimum required usability of 90% as specified in the FSP/QAPP. Thus, the supplemental pre-design soil data set meets the data quality objectives set forth in the PDI Work Plans and the FSP/QAPP.

As a result of the supplemental pre-design sampling, the data to satisfy the needs described above have been obtained. There are now adequate data in the 220-foot portion of the 20-inch sewer line utility corridor located in the western portion of Newell Street, in the 230-foot segment of the 48-inch sewer line utility corridor along the northern portion of the RAA, generally for the thin strip of land southwest of Parcel J9-23-8 owned by the City of Pittsfield, and for the characterization of non-PCB Appendix IX+3 constituents in the western portion of Parcel J9-23-12.

Other Modifications

In Condition No. 5 of its April 21, 2003 letter, EPA provided comments on some of the tables and figures presented in the PDI Report and directed GE to make certain changes or clarifications to those tables and figures. GE has made these changes, as appropriate, on the figures included in this Supplemental PDI Report. EPA comments to the report tables will be reflected in the forthcoming Conceptual RD/RA Work Plan, as discussed below.

Assessment of Potential Data Needs

As discussed above, the additional data resulting from this supplemental soil investigation combined with the soil data presented in the PDI Report satisfy pre-design sampling requirements and are sufficient to support future RD/RA evaluations. Therefore, GE is not proposing to collect any additional soil samples at this time. As stated in the May 5, 2003 response letter to EPA's conditional approval, GE will, as part of future RD/RA evaluations, evaluate the need for additional sampling to further delineate the extent of elevated lead or PCDD/PCDF concentrations at the sample locations specifically referred to in the EPA's April 21, 2003 conditional approval letter (i.e., G92, SL0124, A97, and B90) and at other locations if found necessary.

Future Activities and Schedule

GE proposes to proceed with the evaluation of the need for and type of any additional data that may be required to perform the RD/RA evaluations and with the mapping work described in Section 3.4 of the PDI Report. If the data evaluations indicate the need for any additional data to support a potential response action, GE will propose the scope of such sampling and a schedule, for EPA's review and approval, within 7 months from the date of EPA approval of this Supplemental PDI Report. If GE concludes within such time that no supplemental sampling is needed, GE will so advise EPA by letter and propose a schedule for submitting the Conceptual RD/RA Work Plan for Newell Street Area II, likely within approximately 2 months of EPA's approval of that letter. The contents of the Conceptual RD/RA Work Plan will be consistent with Section 3.3 of the SOW and as outlined in the PDI Report.

Please call Dick Gates or me if you have any questions about this Supplemental PDI Report.

Sincerely,

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

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Attachments

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Western Massachusetts Electric Company*
(Owner of Parcels J9-23-6 and J9-23-8)
Affected Property Owner - Parcel J9-23-4*
Public Information Repositories*
GE Internal Repositories*

(* with attachments)

Tables

**TABLE 1
SUPPLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR PCBs**

**SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR NEWELL STREET AREA II 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
RAA13-C88	1-3	6/4/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	1.1	0.25	1.35
	3-6	6/4/2003	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	0.31	0.045 J	0.355
	6-9	6/4/2003	ND(0.051)	ND(0.051)	ND(0.051)	ND(0.051)	ND(0.051)	0.24	0.044 J	0.284
RAA13-Z90	1-3	6/4/2003	ND(22) [ND(22)]	ND(22) [ND(22)]	ND(22) [ND(22)]	ND(22) [ND(22)]	ND(22) [ND(22)]	400 [530]	83 [110]	483 [640]
	3-6	6/4/2003	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	7.1	5.3	12.4
	6-10	6/4/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.11	ND(0.041)	0.11
	10-15	6/4/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.093	ND(0.044)	0.093

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc., and submitted to CT&E Environmental Services, Inc. for analysis of PCBs.
3. 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).
2. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
3. Field duplicate sample results are presented in brackets.

Data Qualifiers:

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

TABLE 2
SUPPLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR APPENDIX IX+3 CONSTITUENTS
SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR NEWELL STREET AREA II 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:	RAA13-C88 1-3 06/04/03	RAA13-C88 6-8 06/04/03	RAA13-C88 6-9 06/04/03	RAA13-F91 1-3 06/04/03	RAA13-F91 3-6 06/04/03
Volatile Organics					
1,4-Dioxane	ND(0.11) J	ND(0.16) J	NA	ND(0.12) J [ND(0.12) J]	NA
Acetone	ND(0.022)	0.020 J	NA	ND(0.024) [ND(0.024)]	NA
Chlorobenzene	ND(0.0055)	ND(0.0078)	NA	0.0061 [ND(0.0061)]	NA
Trichloroethene	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Xylenes (total)	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
1,2,4-Trichlorobenzene	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
1,2-Dichlorobenzene	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
1,3-Dichlorobenzene	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
1,4-Dichlorobenzene	ND(0.37) J	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
2-Methylnaphthalene	ND(0.37)	NA	ND(0.51)	ND(0.40) [0.22 J]	1.0
2-Methylphenol	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
3&4-Methylphenol	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
Acenaphthene	ND(0.37)	NA	ND(0.51)	0.38 J [0.55]	1.3
Acenaphthylene	ND(0.37)	NA	ND(0.51)	0.32 J [0.35 J]	ND(0.40)
Aniline	ND(0.37)	NA	ND(0.51)	0.26 J [0.18 J]	0.20 J
Anthracene	ND(0.37)	NA	ND(0.51)	1.6 J [0.94 J]	1.1
Benzo(a)anthracene	ND(0.37)	NA	ND(0.51)	4.1 J [2.4 J]	1.8
Benzo(a)pyrene	ND(0.37)	NA	ND(0.51)	2.7 [2.2]	1.2
Benzo(b)fluoranthene	ND(0.37)	NA	ND(0.51)	3.7 [2.7]	1.3
Benzo(g,h,i)perylene	ND(0.37)	NA	ND(0.51)	1.6 [1.4]	0.43
Benzo(k)fluoranthene	ND(0.37)	NA	ND(0.51)	1.4 [1.1]	0.57
Chrysene	ND(0.37)	NA	ND(0.51)	4.4 [2.7]	1.7
Dibenzo(a,h)anthracene	ND(0.37)	NA	ND(0.51)	0.50 [0.43]	0.18 J
Dibenzofuran	ND(0.37)	NA	ND(0.51)	0.20 J [0.20 J]	0.42
Fluoranthene	ND(0.37)	NA	ND(0.51)	9.0 [6.2]	4.1
Fluorene	ND(0.37)	NA	ND(0.51)	0.38 J [0.36 J]	0.62
Indeno(1,2,3-cd)pyrene	ND(0.37)	NA	ND(0.51)	1.4 [1.2]	0.45
Naphthalene	ND(0.37)	NA	ND(0.51)	0.13 J [0.52 J]	2.2
N-Nitrosodiphenylamine	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Pentachlorobenzene	ND(0.37) J	NA	ND(0.51) J	ND(0.40) J [ND(0.41) J]	ND(0.40) J
Phenanthrene	ND(0.37)	NA	ND(0.51)	7.4 J [3.7 J]	4.2
Phenol	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Pyrene	ND(0.37) J	NA	ND(0.51)	8.0 [5.4]	3.3
Furans					
2,3,7,8-TCDF	ND(0.0000033) XY	NA	NA	0.0022 Y [0.00021 Y]	0.000079 Y
TCDFs (total)	0.0000029	NA	NA	0.0021 I [0.0018 I]	0.0027 I
1,2,3,7,8-PeCDF	ND(0.00000041)	NA	NA	0.00011 [0.00015]	0.000072
2,3,4,7,8-PeCDF	ND(0.00000035)	NA	NA	0.00016 [0.00029]	0.00013
PeCDFs (total)	0.0000022	NA	NA	0.00040 I [0.00047 I]	0.00049 I
1,2,3,4,7,8-HxCDF	ND(0.00000021)	NA	NA	0.00066 I [0.0014 I]	0.00079
1,2,3,6,7,8-HxCDF	ND(0.00000022)	NA	NA	0.00029 I [0.00058 I]	0.00056 I
1,2,3,7,8,9-HxCDF	ND(0.00000021)	NA	NA	0.000014 [0.000023]	0.000019
2,3,4,6,7,8-HxCDF	ND(0.00000022)	NA	NA	0.000098 [0.00014]	0.000063
HxCDFs (total)	ND(0.00000072)	NA	NA	0.0037 I [0.0061 I]	0.0037 I
1,2,3,4,6,7,8-HpCDF	ND(0.0000010) X	NA	NA	0.00066 [0.00079]	0.00040
1,2,3,4,7,8,9-HpCDF	ND(0.00000025)	NA	NA	0.00021 [0.00039]	0.00027
HpCDFs (total)	ND(0.0000015)	NA	NA	0.0018 [0.0023]	0.0012
OCDF	ND(0.00000030)	NA	NA	0.00072 [0.00063]	0.00020

TABLE 2
SUPPLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR APPENDIX IX+3 CONSTITUENTS
SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR NEWELL STREET AREA II REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: Sample Depth(Feet): Date Collected:	RAA13-C88 1-3 06/04/03	RAA13-C88 6-8 06/04/03	RAA13-C88 6-9 06/04/03	RAA13-F91 1-3 06/04/03	RAA13-F91 3-6 06/04/03
Dioxins					
2,3,7,8-TCDD	ND(0.00000028)	NA	NA	0.000072 [0.000080]	ND(0.00000079)
TCDDs (total)	ND(0.0000011)	NA	NA	0.00014 [0.00014]	ND(0.0000059)
1,2,3,7,8-PeCDD	ND(0.00000020)	NA	NA	ND(0.00000072) [ND(0.00000037)]	ND(0.0000011)
PeCDDs (total)	ND(0.0000016)	NA	NA	ND(0.000053) [ND(0.00000098) X]	ND(0.000015) X
1,2,3,4,7,8-HxCDD	ND(0.0000039) X	NA	NA	0.0000072 [0.000011]	ND(0.00000056)
1,2,3,6,7,8-HxCDD	ND(0.00000045)	NA	NA	ND(0.0000036) [0.000018]	ND(0.0000048) X
1,2,3,7,8,9-HxCDD	ND(0.00000044)	NA	NA	ND(0.0000034) [ND(0.000013) X]	ND(0.0000089) X
HxCDDs (total)	ND(0.00000092)	NA	NA	0.000058 [0.00011]	ND(0.0000035) X
1,2,3,4,6,7,8-HpCDD	ND(0.00000021)	NA	NA	0.00037 [0.00034]	0.000099
HpCDDs (total)	ND(0.0000017)	NA	NA	0.00064 [0.00088]	0.00016
OCDD	0.0000050	NA	NA	0.0025 [0.0026]	0.00067
Total TEQs (WHO TEFs)	0.00000079	NA	NA	0.00050 [0.00049]	0.00023
Inorganics					
Antimony	2.60 B	NA	ND(6.00)	6.80 [2.30 B]	1.40 B
Arsenic	8.70	NA	1.60	6.80 [6.40]	7.20
Barium	48.0	NA	37.0	100 [100]	190
Beryllium	ND(0.50)	NA	0.500	ND(0.50) [ND(0.50)]	ND(0.50)
Cadmium	0.300 B	NA	0.410 B	1.50 [1.50]	3.10
Chromium	9.00 J	NA	9.80 J	960 J [13.0 J]	12.0 J
Cobalt	12.0	NA	7.60	7.60 [7.80]	5.20
Copper	29.0 J	NA	12.0 J	760 J [190 J]	520 J
Cyanide	ND(0.220)	NA	0.0460 B	0.180 [0.230]	0.160
Lead	23.0 J	NA	5.20 J	7900 J [360 J]	230 J
Mercury	0.140 J	NA	0.0510 J	1.00 J [0.770 J]	2.70 J
Nickel	18.0	NA	12.0	19.0 [18.0]	18.0
Selenium	ND(1.00)	NA	ND(1.20)	ND(1.00) [ND(1.00)]	ND(1.00)
Silver	ND(1.00)	NA	ND(1.20)	ND(1.0) [ND(1.0)]	ND(1.00)
Sulfide	46.0 J	NA	17.0 J	19.0 J [36.0 J]	82.0 J
Thallium	ND(1.10)	NA	ND(1.50)	ND(1.20) [ND(1.20)]	ND(1.20)
Tin	ND(10)	NA	ND(12)	120 [36.0]	38.0
Vanadium	7.60	NA	11.0	14.0 [15.0]	9.00
Zinc	54.0	NA	55.0	510 [330]	640

TABLE 2
SUPPLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR APPENDIX IX+3 CONSTITUENTS
SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR NEWELL STREET AREA II REMOVAL ACTION
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
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Volatile Organics						
1,4-Dioxane	0.089 J	0.075 J	ND(98) J	NA	NA	ND(0.11) J
Acetone	ND(0.023)	ND(0.025)	ND(49)	NA	NA	ND(0.023)
Chlorobenzene	ND(0.0057)	ND(0.0063)	34	NA	NA	ND(0.0057)
Trichloroethene	ND(0.0057)	0.069	ND(2.4)	NA	NA	ND(0.0057)
Xylenes (total)	ND(0.0057)	ND(0.0063)	17	NA	NA	ND(0.0057)
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene	NA	0.50	NA	ND(0.49)	ND(0.42)	NA
1,2,4-Trichlorobenzene	NA	8.2	NA	ND(0.49)	0.16 J	NA
1,2-Dichlorobenzene	NA	0.078 J	NA	ND(0.49)	ND(0.42)	NA
1,3-Dichlorobenzene	NA	0.085 J	NA	0.24 J	ND(0.42)	NA
1,4-Dichlorobenzene	NA	0.11 J	NA	1.3	ND(0.42)	NA
2-Methylnaphthalene	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
2-Methylphenol	NA	0.15 J	NA	ND(0.49)	ND(0.42)	NA
3&4-Methylphenol	NA	0.14 J	NA	ND(0.98)	ND(0.83)	NA
Acenaphthene	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Acenaphthylene	NA	ND(0.42)	NA	ND(0.49)	0.23 J	NA
Aniline	NA	3.9	NA	ND(0.49)	0.42	NA
Anthracene	NA	0.18 J	NA	ND(0.49)	0.19 J	NA
Benzo(a)anthracene	NA	0.40 J	NA	ND(0.49)	0.54	NA
Benzo(a)pyrene	NA	0.45	NA	ND(0.49)	0.53	NA
Benzo(b)fluoranthene	NA	0.86	NA	ND(0.49)	0.64	NA
Benzo(g,h,i)perylene	NA	0.50	NA	ND(0.49)	0.34 J	NA
Benzo(k)fluoranthene	NA	0.32 J	NA	ND(0.49)	0.24 J	NA
Chrysene	NA	0.74	NA	ND(0.49)	0.51	NA
Dibenzo(a,h)anthracene	NA	0.13 J	NA	ND(0.49)	0.11 J	NA
Dibenzofuran	NA	0.24 J	NA	ND(0.49)	ND(0.42)	NA
Fluoranthene	NA	1.5	NA	ND(0.49)	0.89	NA
Fluorene	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Indeno(1,2,3-cd)pyrene	NA	0.41 J	NA	ND(0.49)	0.30 J	NA
Naphthalene	NA	0.27 J	NA	0.21 J	0.14 J	NA
N-Nitrosodiphenylamine	NA	0.18 J	NA	ND(0.49)	ND(0.42)	NA
Pentachlorobenzene	NA	0.25 J	NA	ND(0.49) J	ND(0.42) J	NA
Phenanthrene	NA	1.1	NA	ND(0.49)	0.58	NA
Phenol	NA	1.9	NA	ND(0.49)	ND(0.42)	NA
Pyrene	NA	1.0	NA	ND(0.49)	1.1	NA
Furans						
2,3,7,8-TCDF	NA	0.068 Y	NA	NA	0.00071 Y	NA
TCDFs (total)	NA	0.34 I	NA	NA	0.012	NA
1,2,3,7,8-PeCDF	NA	0.032	NA	NA	0.00059	NA
2,3,4,7,8-PeCDF	NA	0.049	NA	NA	0.00064	NA
PeCDFs (total)	NA	0.38 I	NA	NA	0.029	NA
1,2,3,4,7,8-HxCDF	NA	0.094 I	NA	NA	0.0020	NA
1,2,3,6,7,8-HxCDF	NA	0.033 I	NA	NA	0.0025 I	NA
1,2,3,7,8,9-HxCDF	NA	0.0011	NA	NA	0.000028	NA
2,3,4,6,7,8-HxCDF	NA	0.013	NA	NA	0.00028	NA
HxCDFs (total)	NA	0.28 I	NA	NA	0.018	NA
1,2,3,4,6,7,8-HpCDF	NA	0.080	NA	NA	0.0029	NA
1,2,3,4,7,8,9-HpCDF	NA	0.013	NA	NA	0.00044	NA
HpCDFs (total)	NA	0.13	NA	NA	0.0065	NA
OCDF	NA	0.058	NA	NA	0.0021	NA

TABLE 2
SUPPLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR APPENDIX IX+3 CONSTITUENTS
SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR NEWELL STREET AREA II 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:	RAA13-F91 4-6 06/04/03	RAA13-G92 1-3 06/04/03	RAA13-G92 10-12 06/04/03	RAA13-G92 10-15 06/04/03	RAA13-Z88 3-6 06/04/03	SL0131 0-1 06/04/03
Dioxins							
2,3,7,8-TCDD		NA	0.00033	NA	NA	0.000026	NA
TCDDs (total)		NA	0.016	NA	NA	0.00023	NA
1,2,3,7,8-PeCDD		NA	ND(0.00060) X	NA	NA	ND(0.0000069)	NA
PeCDDs (total)		NA	0.0020	NA	NA	ND(0.000047) X	NA
1,2,3,4,7,8-HxCDD		NA	0.00077	NA	NA	0.000020	NA
1,2,3,6,7,8-HxCDD		NA	0.0015	NA	NA	0.000025	NA
1,2,3,7,8,9-HxCDD		NA	0.0021	NA	NA	0.000038	NA
HxCDDs (total)		NA	0.015	NA	NA	0.00026	NA
1,2,3,4,6,7,8-HpCDD		NA	0.0087	NA	NA	0.00019	NA
HpCDDs (total)		NA	0.017	NA	NA	0.00036	NA
OCDD		NA	0.015	NA	NA	0.00057	NA
Total TEQs (WHO TEFs)		NA	0.049	NA	NA	0.00097	NA
Inorganics							
Antimony		NA	31.0	NA	1.00 B	3.30 B	NA
Arsenic		NA	15.0	NA	2.80	4.70	NA
Barium		NA	480	NA	51.0	77.0	NA
Beryllium		NA	1.20	NA	ND(0.50)	ND(0.50)	NA
Cadmium		NA	12.0	NA	0.190 B	1.30	NA
Chromium		NA	200 J	NA	8.00 J	16.0 J	NA
Cobalt		NA	18.0	NA	5.10	6.10	NA
Copper		NA	3100 J	NA	12.0 J	200 J	NA
Cyanide		NA	1.00	NA	0.0800 B	0.220	NA
Lead		NA	4400 J	NA	8.60 J	900 J	NA
Mercury		NA	25.0 J	NA	0.0660 J	0.370 J	NA
Nickel		NA	140	NA	10.0	11.0	NA
Selenium		NA	1.20	NA	ND(1.10)	ND(1.00)	NA
Silver		NA	13.0	NA	ND(1.10)	ND(1.0)	NA
Sulfide		NA	10.0 J	NA	59.0 J	16.0 J	NA
Thallium		NA	14.0	NA	ND(1.50)	ND(1.20)	NA
Tin		NA	280	NA	5.10 B	180	NA
Vanadium		NA	14.0	NA	8.70	7.90	NA
Zinc		NA	5900	NA	59.0	360	NA

TABLE 2
SUPPLEMENTAL PRE-DESIGN SOIL INVESTIGATION SAMPLING DATA FOR APPENDIX IX+3 CONSTITUENTS
SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR NEWELL STREET AREA II 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. NA - Not Analyzed.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
5. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
6. Field duplicate sample results are presented in brackets.
7. With the exception of dioxin/furans, only those constituents detected in one or more samples are summarized.

Data Qualifiers:

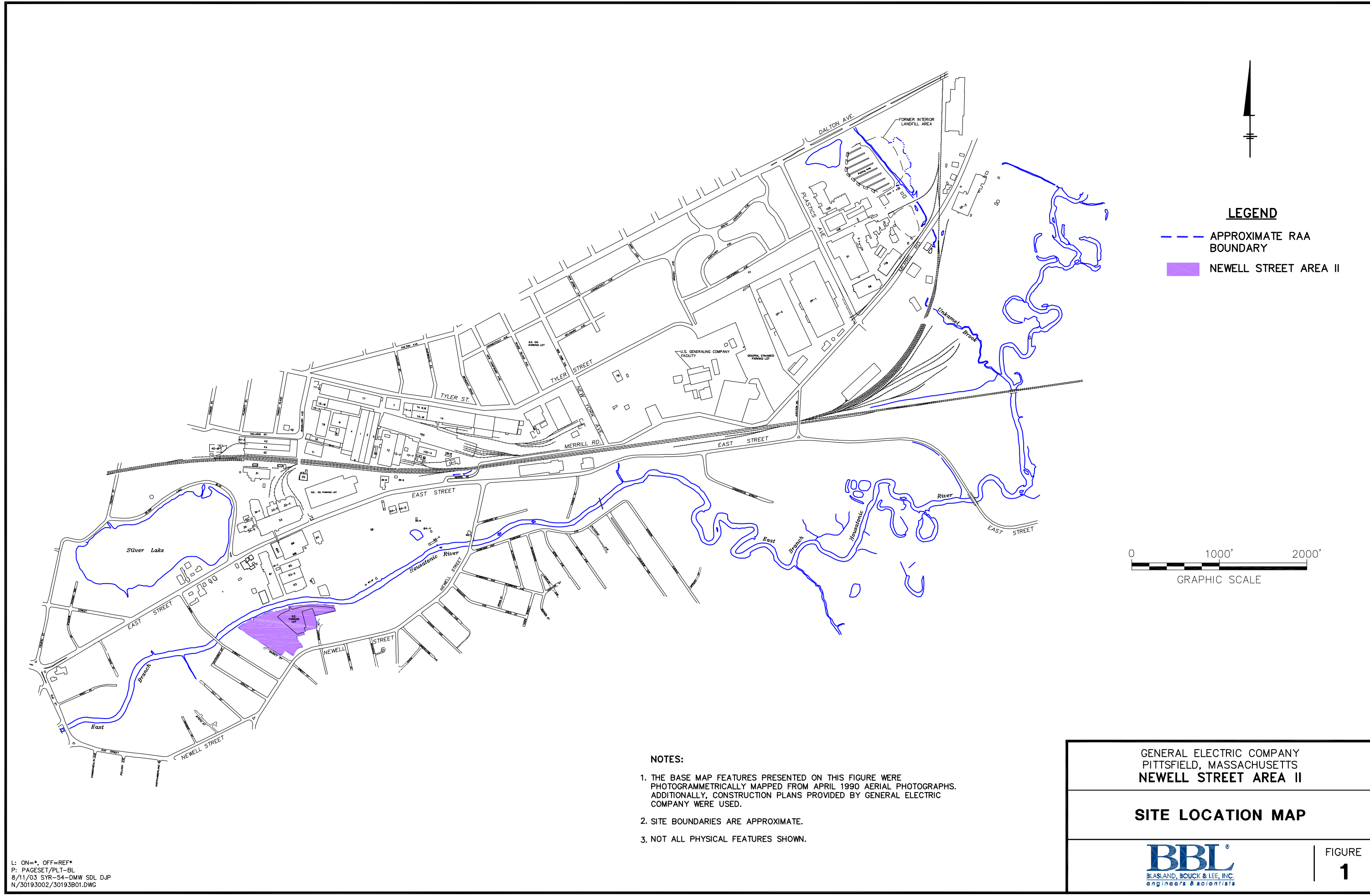
Organics (volatiles, semivolatiles, dioxin/furans)

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

Inorganics

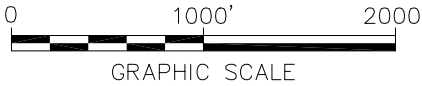
- B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
- J - Indicates that the associated numerical value is an estimated concentration.

Figures



LEGEND

- APPROXIMATE RAA BOUNDARY
- NEWELL STREET AREA II



NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS. ADDITIONALLY, CONSTRUCTION PLANS PROVIDED BY GENERAL ELECTRIC COMPANY WERE USED.
2. SITE BOUNDARIES ARE APPROXIMATE.
3. NOT ALL PHYSICAL FEATURES SHOWN.

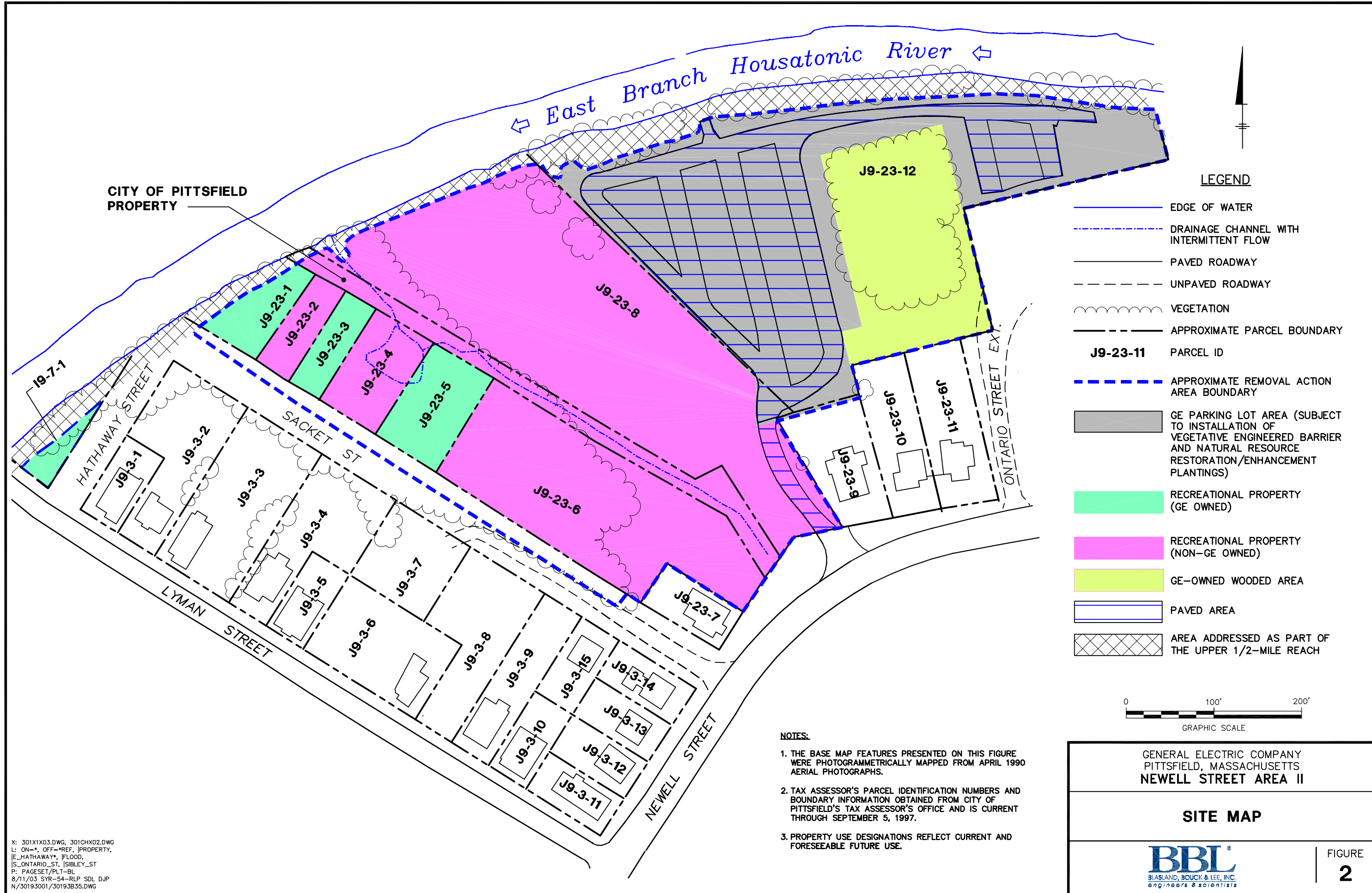
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II

SITE LOCATION MAP



FIGURE
1

L: ON=*, OFF=REF*
P: PAGESET/PLT-BL
8/11/03 SYR-54-DMW SDL DJP
N/30193002/30193B01.DWG

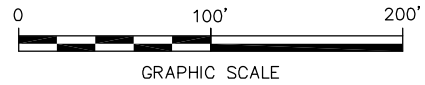


CITY OF PITTSFIELD PROPERTY

East Branch Housatonic River

LEGEND

- EDGE OF WATER
- DRAINAGE CHANNEL WITH INTERMITTENT FLOW
- PAVED ROADWAY
- UNPAVED ROADWAY
- VEGETATION
- APPROXIMATE PARCEL BOUNDARY
- J9-23-11** PARCEL ID
- APPROXIMATE REMOVAL ACTION AREA BOUNDARY
- GE PARKING LOT AREA (SUBJECT TO INSTALLATION OF VEGETATIVE ENGINEERED BARRIER AND NATURAL RESOURCE RESTORATION/ENHANCEMENT PLANTINGS)
- RECREATIONAL PROPERTY (GE OWNED)
- RECREATIONAL PROPERTY (NON-GE OWNED)
- GE-OWNED WOODED AREA
- PAVED AREA
- AREA ADDRESSED AS PART OF THE UPPER 1/2-MILE REACH



NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. TAX ASSESSOR'S PARCEL IDENTIFICATION NUMBERS AND BOUNDARY INFORMATION OBTAINED FROM CITY OF PITTSFIELD'S TAX ASSESSOR'S OFFICE AND IS CURRENT THROUGH SEPTEMBER 5, 1997.
3. PROPERTY USE DESIGNATIONS REFLECT CURRENT AND FORESEEABLE FUTURE USE.

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II

SITE MAP



FIGURE
2

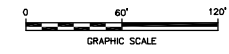
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E_HATHAWAY*, IFLOOD,
S_ONTARIO_ST, ISIBLEY_ST
P: PAGESET/PLT-BL
8/11/03 SYR-54-RLP SDL DJP
N/30193001/30193B35.DWG



LEGEND

- APPROXIMATE EXISTING FENCE LOCATION
- APPROXIMATE PARCEL BOUNDARY
- UNPAVED ROADWAY
- PARCEL ID
- APPROXIMATE RAA BOUNDARY
- 50-FOOT SURFACE SAMPLING GRID
- 100-FOOT SUBSURFACE SAMPLING GRID
- AREA PREVIOUSLY REMEDIATED
- AREA ADDRESSED AS PART OF THE UPPER 1/2-MILE REACH
- GE PARKING LOT (SUBJECT TO INSTALLATION OF VEGETATIVE ENGINEERED BARRIER AND NATURAL RESOURCE RESTORATION/ENHANCEMENT PLANTINGS)
- APPROXIMATE LOCATION OF 48-INCH SANITARY SEWER
- APPROXIMATE LOCATION OF 20-INCH SANITARY SEWER
- APPROXIMATE LOCATION OF BAND SURROUNDING SANITARY SEWER (25 FEET WIDE ON EACH SIDE OF SEWER LINE)
- EXISTING SURFACE SOIL SAMPLE LOCATION (0- TO 1-FOOT SAMPLE DEPTH)
- EXISTING SOIL BORING LOCATION (1-FOOT OR GREATER SAMPLE DEPTH)
- BANK SOIL SAMPLE
- EXISTING SUPPLEMENTAL SOIL BORING LOCATION

- NOTES:**
1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
 2. CERTAIN SAMPLING LOCATIONS HAVE BEEN SURVEYED TO KNOWN PHYSICAL FEATURES BY BLASLAND, BOUCK & LEE, INC. AND HILL ENGINEERS, ARCHITECTS, PLANNERS, INC. ALL SAMPLING LOCATIONS SHOWN ON THIS MAPPING ARE APPROXIMATE. HOWEVER SURVEY DATA ARE AVAILABLE FOR CERTAIN OF THESE SAMPLING LOCATIONS TO IDENTIFY PRECISE LOCATIONS.
 3. LIMITS OF BUILDINGS, PROPERTY BOUNDARIES, AND ROADS ARE APPROXIMATE.

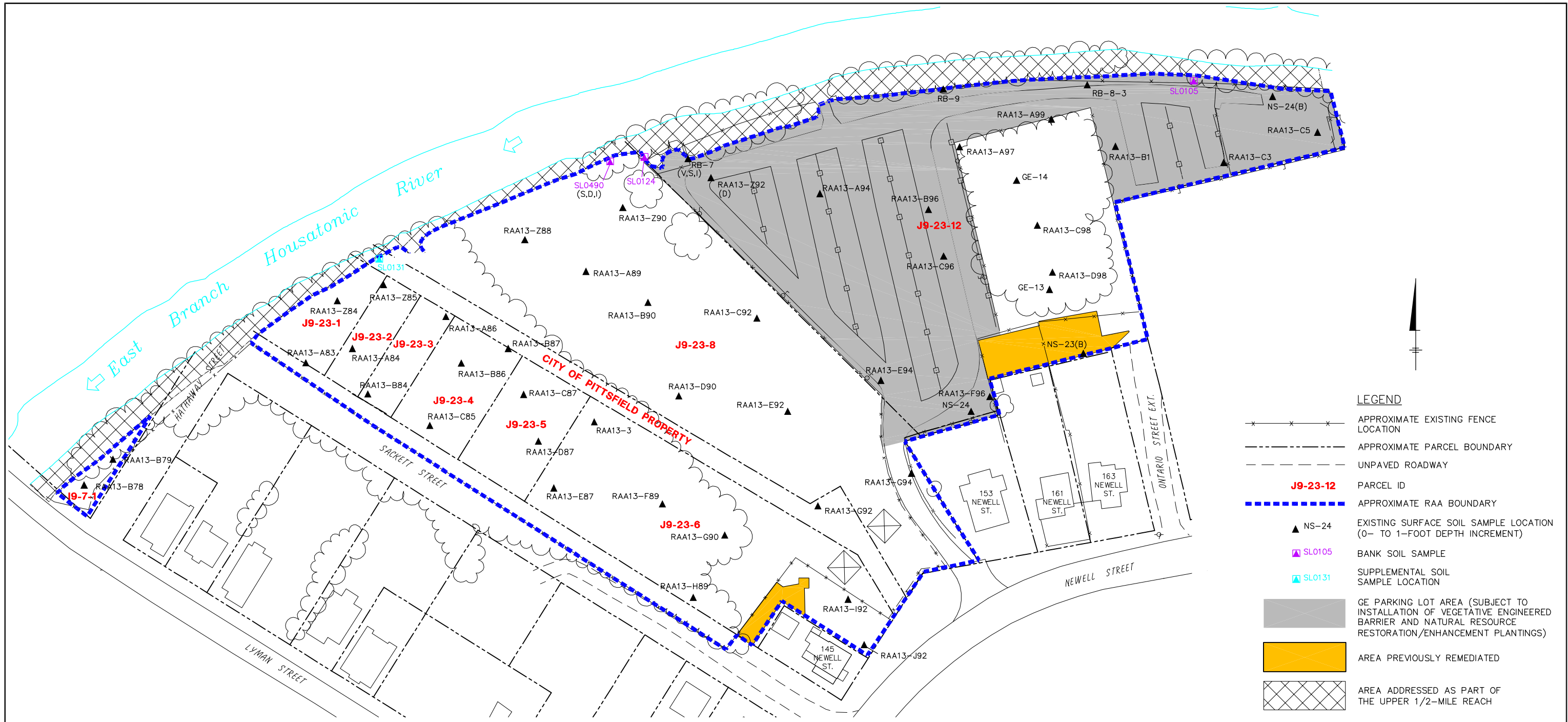


GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II

**EXISTING PCB SOIL
SAMPLE LOCATIONS**

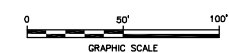


FIGURE
3



- LEGEND**
- x — x — x — APPROXIMATE EXISTING FENCE LOCATION
 - - - - - APPROXIMATE PARCEL BOUNDARY
 - - - - - UNPAVED ROADWAY
 - J9-23-12** PARCEL ID
 - — — — — APPROXIMATE RAA BOUNDARY
 - ▲ NS-24 EXISTING SURFACE SOIL SAMPLE LOCATION (0- TO 1-FOOT DEPTH INCREMENT)
 - ▲ SL0105 BANK SOIL SAMPLE
 - ▲ SL0131 SUPPLEMENTAL SOIL SAMPLE LOCATION
 - GE PARKING LOT AREA (SUBJECT TO INSTALLATION OF VEGETATIVE ENGINEERED BARRIER AND NATURAL RESOURCE RESTORATION/ENHANCEMENT PLANTINGS)
 - AREA PREVIOUSLY REMEDIATED
 - AREA ADDRESSED AS PART OF THE UPPER 1/2-MILE REACH

- NOTES:**
1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
 2. CERTAIN SAMPLING LOCATIONS HAVE BEEN SURVEYED TO KNOWN PHYSICAL FEATURES BY BLASLAND, BOUCK & LEE, INC. AND HILL ENGINEERS, ARCHITECTS, PLANNERS, INC. ALL SAMPLING LOCATIONS SHOWN ON THIS MAPPING ARE APPROXIMATE. HOWEVER SURVEY DATA ARE AVAILABLE FOR CERTAIN OF THESE SAMPLING LOCATIONS TO IDENTIFY PRECISE LOCATIONS.
 3. LIMITS OF BUILDINGS, PROPERTY BOUNDARIES, AND ROADS ARE APPROXIMATE.
 4. SOIL SAMPLES HAVE BEEN ANALYZED FOR ALL APPENDIX IX+3 CONSTITUENTS (EXCLUDING PESTICIDES AND HERBICIDES) UNLESS OTHERWISE INDICATED IN PARENTHESIS. THE CONSTITUENT GROUPS ARE:
 V = VOLATILE ORGANIC COMPOUNDS (VOCs)
 S = SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)
 D = POLYCHLORINATED DIBENZO-P-DIOXINS (PCDDs) AND POLYCHLORINATED DIBENZOFURANS (PCDFs)
 I = INORGANICS
 5. (B) = DIFFERENTIATES BORING LOCATIONS WHERE SAMPLES WERE COLLECTED IN JUNE 1995 FROM IDENTICALLY IDENTIFIED SURFACE LOCATIONS WHERE SAMPLES WERE COLLECTED IN OCTOBER 1993.



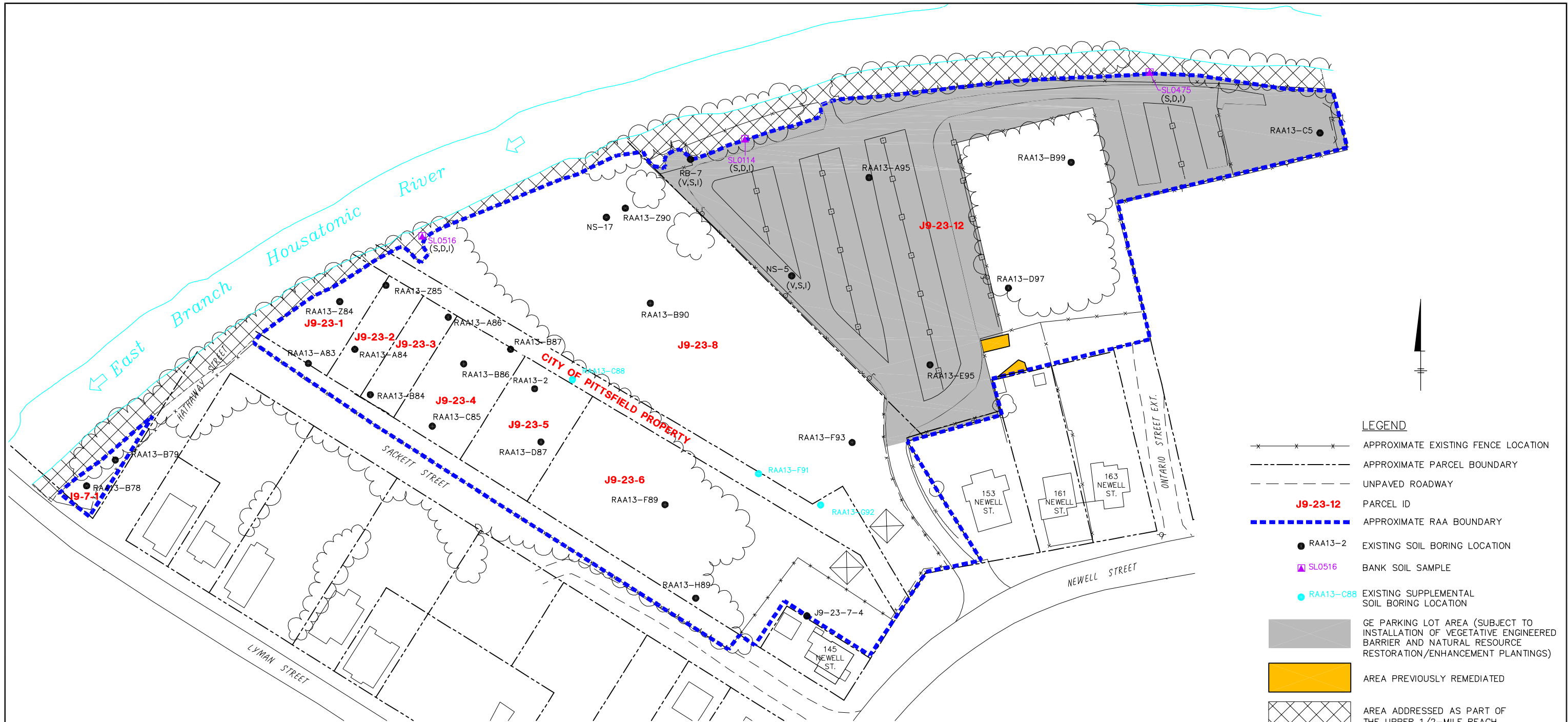
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II

**EXISTING APPENDIX IX+3 SOIL
SAMPLE LOCATIONS (0- TO 1-FOOT
DEPTH INCREMENT)**

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

FIGURE
4

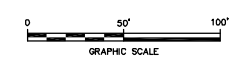
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 L: ON=*, OFF=*REF*, *GRID*
 P: PAGESET/PLT-DL
 8/11/03 SYR-85-DJP SDL DJP
 N/30193001/30193B37.DWG



- NOTES:**
1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
 2. CERTAIN SAMPLING LOCATIONS HAVE BEEN SURVEYED TO KNOWN PHYSICAL FEATURES BY BLASLAND, BOUCK & LEE, INC. AND HILL ENGINEERS, ARCHITECTS, PLANNERS, INC. ALL SAMPLING LOCATIONS SHOWN ON THIS MAPPING ARE APPROXIMATE. HOWEVER SURVEY DATA ARE AVAILABLE FOR CERTAIN OF THESE SAMPLING LOCATIONS TO IDENTIFY PRECISE LOCATIONS.
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 I = INORGANICS

LEGEND

- x — x — x — APPROXIMATE EXISTING FENCE LOCATION
- - - - - APPROXIMATE PARCEL BOUNDARY
- - - - - UNPAVED ROADWAY
- J9-23-12** PARCEL ID
- - - - - APPROXIMATE RAA BOUNDARY
- RAA13-2 EXISTING SOIL BORING LOCATION
- ▲ SL0516 BANK SOIL SAMPLE
- RAA13-C88 EXISTING SUPPLEMENTAL SOIL BORING LOCATION
- GE PARKING LOT AREA (SUBJECT TO INSTALLATION OF VEGETATIVE ENGINEERED BARRIER AND NATURAL RESOURCE RESTORATION/ENHANCEMENT PLANTINGS)
- AREA PREVIOUSLY REMEDIATED
- ▨ AREA ADDRESSED AS PART OF THE UPPER 1/2-MILE REACH



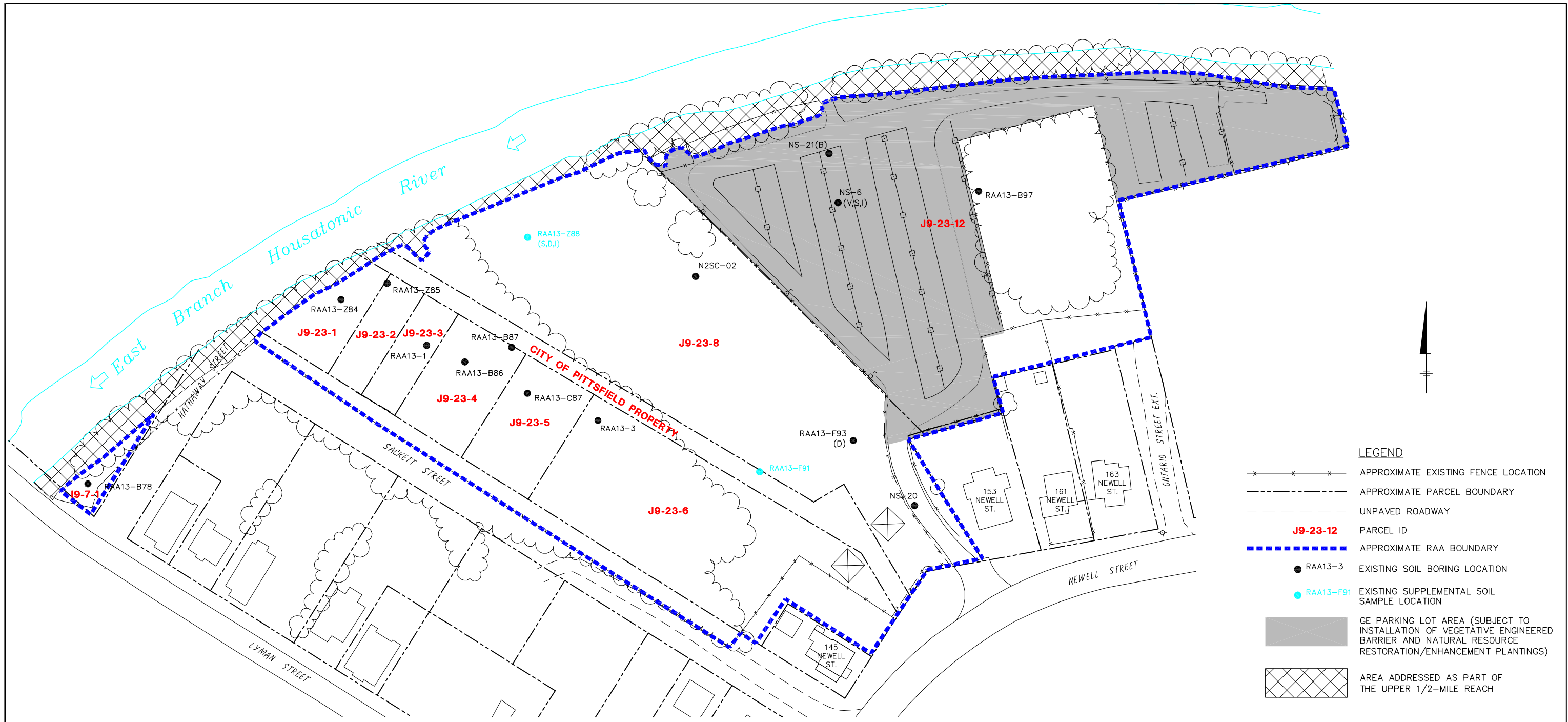
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II

**EXISTING APPENDIX IX+3 SOIL
SAMPLE LOCATIONS (1- TO 3-FOOT
DEPTH INCREMENT)**

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

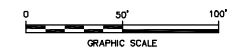
FIGURE
5

X: 30193X10.DWG
 L: ON=*, OFF=*REF*, *GRID*,
 I:EXC, J:EXC-PREV
 P: PAGESET/PLT-DL
 8/11/03 SYR-85-D.P SDL D.P
 N:30193001/30193B38.DWG



NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. CERTAIN SAMPLING LOCATIONS HAVE BEEN SURVEYED TO KNOWN PHYSICAL FEATURES BY BLASLAND, BOUCK & LEE, INC. AND HILL ENGINEERS, ARCHITECTS, PLANNERS, INC. ALL SAMPLING LOCATIONS SHOWN ON THIS MAPPING ARE APPROXIMATE. HOWEVER SURVEY DATA ARE AVAILABLE FOR CERTAIN OF THESE SAMPLING LOCATIONS TO IDENTIFY PRECISE LOCATIONS.
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 I = INORGANICS
5. (B) = DIFFERENTIATES BORING LOCATIONS WHERE SAMPLES WERE COLLECTED IN JUNE 1995 FROM IDENTICALLY IDENTIFIED SURFACE LOCATIONS WHERE SAMPLES WERE COLLECTED IN OCTOBER 1993.



GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II

**EXISTING APPENDIX IX+3 SOIL
SAMPLE LOCATIONS (3- TO 6-FOOT
DEPTH INCREMENT)**


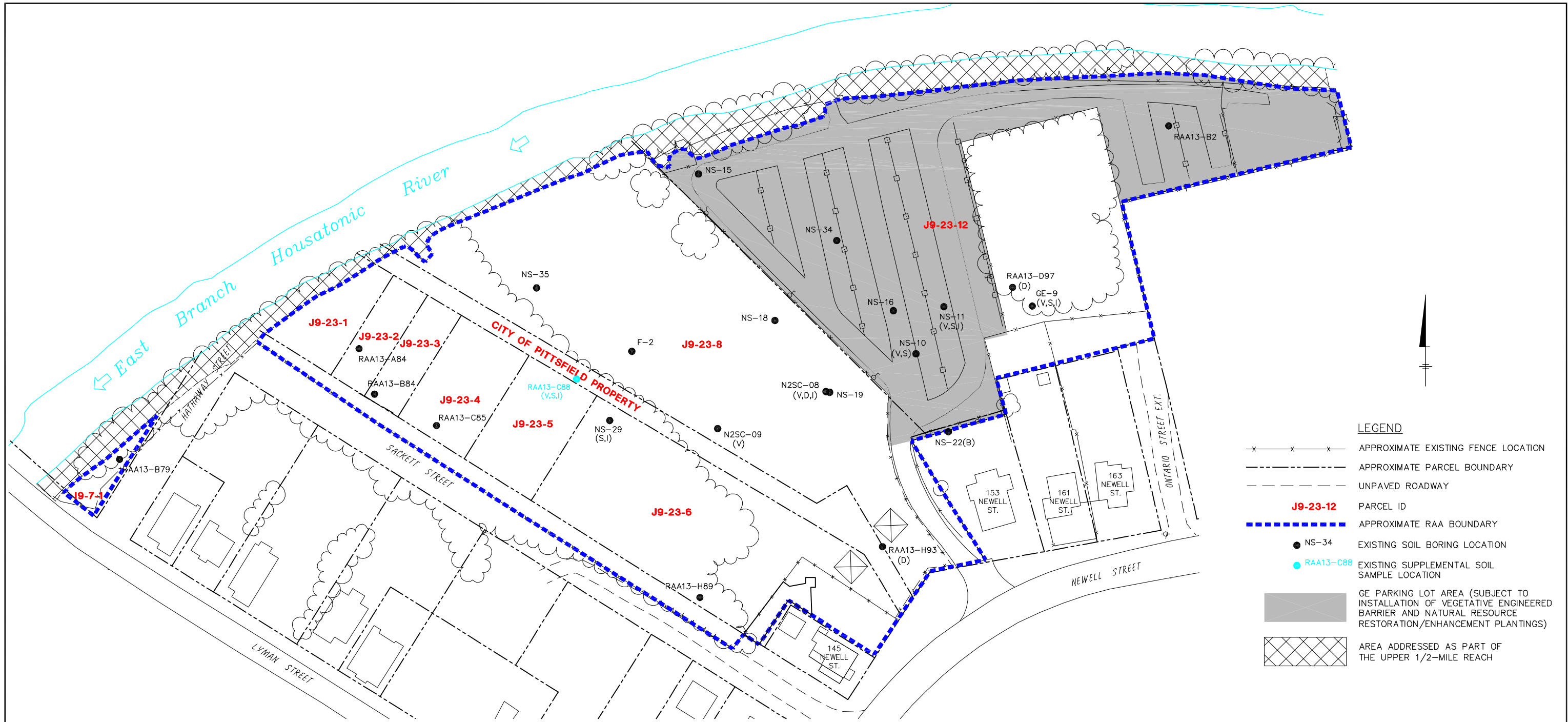
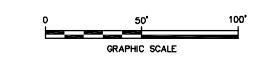


FIGURE
6

X: 30193X10.DWG
 L: ON=4, OFF=REF*, GRID*
 [EXC, EXC-PREV
 P: PAGESET/PLT-DL
 8/11/03 SYR-85-DJP SDL DJP
 N/30193001/30193B39.DWG



- LEGEND**
- x-x-x- APPROXIMATE EXISTING FENCE LOCATION
 - - - - - APPROXIMATE PARCEL BOUNDARY
 - - - - - UNPAVED ROADWAY
 - J9-23-12** PARCEL ID
 - - - - - APPROXIMATE RAA BOUNDARY
 - NS-34 EXISTING SOIL BORING LOCATION
 - RAA13-C88 EXISTING SUPPLEMENTAL SOIL SAMPLE LOCATION
 - GE PARKING LOT AREA (SUBJECT TO INSTALLATION OF VEGETATIVE ENGINEERED BARRIER AND NATURAL RESOURCE RESTORATION/ENHANCEMENT PLANTINGS)
 - ▨ AREA ADDRESSED AS PART OF THE UPPER 1/2-MILE REACH



- NOTES:**
- THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
 - CERTAIN SAMPLING LOCATIONS HAVE BEEN SURVEYED TO KNOWN PHYSICAL FEATURES BY BLASLAND, BOUCK & LEE, INC. AND HILL ENGINEERS, ARCHITECTS, PLANNERS, INC. ALL SAMPLING LOCATIONS SHOWN ON THIS MAPPING ARE APPROXIMATE. HOWEVER SURVEY DATA ARE AVAILABLE FOR CERTAIN OF THESE SAMPLING LOCATIONS TO IDENTIFY PRECISE LOCATIONS.
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 - SOIL SAMPLES HAVE BEEN ANALYZED FOR ALL APPENDIX IX+3 CONSTITUENTS (EXCLUDING PESTICIDES AND HERBICIDES) UNLESS OTHERWISE INDICATED IN PARENTHESIS. THE CONSTITUENT GROUPS ARE:
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 S = SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)
 D = POLYCHLORINATED DIBENZO-P-DIOXINS (PCDDs) AND POLYCHLORINATED DIBENZOFURANS (PCDFs)
 I = INORGANICS
 - (B) = DIFFERENTIATES BORING LOCATIONS WHERE SAMPLES WERE COLLECTED IN JUNE 1995 FROM IDENTICALLY IDENTIFIED SURFACE LOCATIONS WHERE SAMPLES WERE COLLECTED IN OCTOBER 1993.

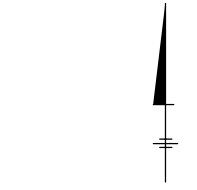
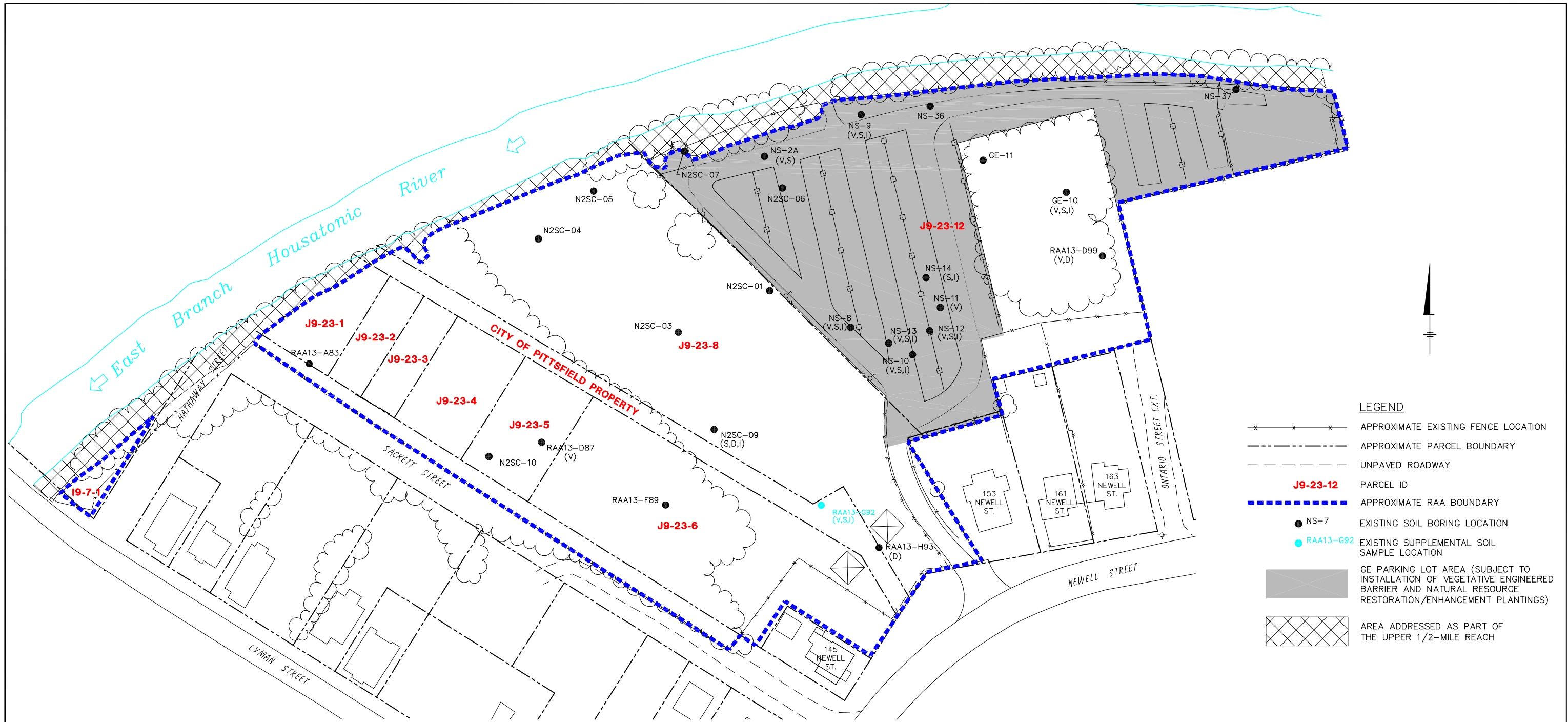
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II

**EXISTING APPENDIX IX+3 SOIL
SAMPLE LOCATIONS (6- TO
10-FOOT DEPTH INCREMENT)**

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

FIGURE
7

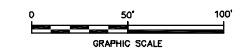
X: 30193X10.DWG
L: ON=*, OFF=REF*, *GRID,
[EXC,]EXC=PREV
P: PAGESET/PLT-DL
8/11/03 SYR-85-DJP SDL DJP
N/30193001/30193040.DWG



- LEGEND**
- x — x — x — APPROXIMATE EXISTING FENCE LOCATION
 - - - - - APPROXIMATE PARCEL BOUNDARY
 - - - - - UNPAVED ROADWAY
 - J9-23-12** PARCEL ID
 - - - - - APPROXIMATE RAA BOUNDARY
 - NS-7 EXISTING SOIL BORING LOCATION
 - RAA13-G92 EXISTING SUPPLEMENTAL SOIL SAMPLE LOCATION
 - GE PARKING LOT AREA (SUBJECT TO INSTALLATION OF VEGETATIVE ENGINEERED BARRIER AND NATURAL RESOURCE RESTORATION/ENHANCEMENT PLANTINGS)
 - ▨ AREA ADDRESSED AS PART OF THE UPPER 1/2-MILE REACH

NOTES:

1. THE BASE MAP FEATURES PRESENTED ON THIS FIGURE WERE PHOTOGRAMMETRICALLY MAPPED FROM APRIL 1990 AERIAL PHOTOGRAPHS.
2. CERTAIN SAMPLING LOCATIONS HAVE BEEN SURVEYED TO KNOWN PHYSICAL FEATURES BY BLASLAND, BOUCK & LEE, INC. AND HILL ENGINEERS, ARCHITECTS, PLANNERS, INC. ALL SAMPLING LOCATIONS SHOWN ON THIS MAPPING ARE APPROXIMATE. HOWEVER SURVEY DATA ARE AVAILABLE FOR CERTAIN OF THESE SAMPLING LOCATIONS TO IDENTIFY PRECISE LOCATIONS.
3. LIMITS OF BUILDINGS, PROPERTY BOUNDARIES, AND ROADS ARE APPROXIMATE.
4. SOIL SAMPLES HAVE BEEN ANALYZED FOR ALL APPENDIX IX+3 CONSTITUENTS (EXCLUDING PESTICIDES AND HERBICIDES) UNLESS OTHERWISE INDICATED IN PARENTHESIS. THE CONSTITUENT GROUPS ARE:
 V = VOLATILE ORGANIC COMPOUNDS (VOCs)
 S = SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)
 D = POLYCHLORINATED DIBENZO-P-DIOXINS (PCDDs) AND POLYCHLORINATED DIBENZOFURANS (PCDFs)
 I = INORGANICS



GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA II

**EXISTING APPENDIX IX+3 SOIL
SAMPLE LOCATIONS (10- TO
15-FOOT DEPTH INCREMENT)**




FIGURE
8

X: 30193X10.DWG
 L: ON=*, OFF=*REF*, *GRID,
 [EXC, [EXC-PREV
 P: PAGESET/PLT-DL
 8/11/03 SYR-85-DJP SOL DJP
 N/30193001/30193B41.DWG

Attachments

Attachment A

Soil Boring Logs

Date Start/Finish: 6/8/03 Drilling Company: BBL Driller's Name: JJB Drilling Method: Direct Push Auger Size: NA Rig Type: Tractor-mounted Power Probe Sample Method: 4' Macrocore	Northing: 532491.22 Easting: 131468.73 Casing Elevation: NA Borehole Depth: 9' below grade Surface Elevation: 979.7 Descriptions By: JAB	Boring ID: RAA13-C88 Client: General Electric Company Location: Newell Street Area II
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
980								
		1	0-1		0.0		Dark brown fine SAND and SILT, little Organic Matter.	Borehole backfilled with Bentonite.
		2	1-3	3.1	0.0		Dark gray-brown fine to medium SAND, some Silt and fine to medium Gravel.	
		3	3-4		0.0			
975		4	4-6		0.0		Gray-brown SILT, some fine Sand, trace Organic Matter, wet.	
		5	6-8	3.8	0.0			
		6	8-9	0.8	0.0			
970								
965								

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

Remarks: Analyses: 1-3': PCBs, VOCs, SVOCs, Inorganics, PCDD/PCDF;
 3-6': PCBs; 6-9': PCBs, VOCs (6-8'), SVOCs, Inorganics;
 MS/MSD collected (PCBs, VOCs, SVOCs, Inorganics, PCDD/PCDF).

Date Start/Finish: 6/8/03 Drilling Company: BBL Driller's Name: JJB Drilling Method: Direct Push Auger Size: NA Rig Type: Tractor-mounted Power Probe Sample Method: 4' Macrocore	Northing: 532395.99 Easting: 131658.37 Casing Elevation: NA Borehole Depth: 6' below grade Surface Elevation: 983.7 Descriptions By: JAB	Boring ID: RAA13-F91 Client: General Electric Company Location: Newell Street Area II
--	---	--

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985								
		1	0-1		0.0		Dark brown fine SAND and SILT, trace Organic Matter.	 Borehole backfilled with Bentonite.
		2	1-3		0.0		Dark brown SILT, some fine Sand and Organic Matter.	
980			3-4		0.0			
5		4-6	1.4	0.0	0.0		Dark brown SILT, trace fine Sand and Insulation Material. [FILL]	
975								
10								
970								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: Analyses: 1-3': VOCs, SVOCs, Inorganics, PCDD/PCDF; 3-6': VOCs (4-6'), SVOCs, Inorganics, PCDD/PCDF. Duplicate sample ID: RAA13-Dup-1 (VOCs, SVOCs, Inorganics, PCDD/PCDF; 1-3'),
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Date Start/Finish: 6/8/03
 Drilling Company: BBL
 Driller's Name: JJB
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: 4' Macrocore

Northing: 532362.45
 Easting: 131720.61
 Casing Elevation: NA
 Borehole Depth: 15' below grade
 Surface Elevation: 983.9
 Descriptions By: JAB

Boring ID: RAA13-G92
 Client: General Electric Company
 Location: Newell Street Area II


DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985								
		1	0-1	0.9			Dark brown fine SAND and SILT, trace Organic Matter.	Borehole backfilled with Bentonite.
		2	1-3	2.1	0.4		Dark brown fine SAND, some Silt, fine to medium Gravel and Coal/Ash. [FILL]	
		3	3-4	0.2			Gray-brown SILT, some fine Sand, trace Organic Matter, wet.	
5		4	4-6	0.2			Same as above, slight petroleum odor.	
			6-8	0.0			Dark brown SILT, trace Organic Matter, strong petroleum odor.	
		6	8-10	10.6			Gray fine SAND and SILT, slight petroleum odor.	
10		7	10-12	28.6			Gray fine to coarse SAND, wet, slight petroleum odor.	
		8	12-14	3.0			Gray fine SAND and SILT, slight petroleum odor.	
		9	14-15	14.3			Gray fine to coarse SAND, wet, slight petroleum odor.	
15								



Remarks: Analyses: 1-3': VOCs, SVOCS, Inorganics, PCDD/PCDF;
 10-15': VOCs (10-12'), SVOCS, Inorganics.

Date Start/Finish: 6/8/03 Drilling Company: BBL Driller's Name: JJB Drilling Method: Direct Push Auger Size: NA Rig Type: Tractor-mounted Power Probe Sample Method: 4' Macrocore	Northing: 532632.83 Easting: 131422.98 Casing Elevation: NA Borehole Depth: 6' below grade Surface Elevation: 979.0 Descriptions By: JAB	Boring ID: RAA13-Z88 Client: General Electric Company Location: Newell Street Area II
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0								
0-1							Grey-brown fine SAND, some Silt, medium Sand and fine to medium Gravel.	Borehole backfilled with Bentonite.
		1-3		3.3	1.2			
	975	3-4			0.0		Dark brown fine SAND.	
5		4-6		2.0	0.0			
	970							
10								
	965							
15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: Analyses: 3-6': SVOCs, Inorganics, PCDD/PCDF.
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Date Start/Finish: 6/8/03
 Drilling Company: BBL
 Driller's Name: JJB
 Drilling Method: Direct Push
 Auger Size: NA
 Rig Type: Tractor-mounted Power Probe
 Sample Method: 4' Macrocore

Northing: 532655.44
 Easting: 131522.59
 Casing Elevation: NA
 Borehole Depth: 15' below grade
 Surface Elevation: 983.2
 Descriptions By: JAB

Boring ID: RAA13-Z90
 Client: General Electric Company
 Location: Newell Street Area II


DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headpace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
985								
		0-1		0.0		x x x x	Dark brown fine SAND and SILT, trace Organic Matter, Coal/Ash. [FILL]	Borehole backfilled with Bentonite.
		1-3		2.8	0.0	x x x x	Brown fine SAND and SILT, moist.	
980		3-4		0.0			Light brown fine to medium SAND, moist.	
		4	4-6	0.0			Orange-brown fine SAND, moist.	
		5	6-8	0.0			Wet below 8' bgs.	
975		6	8-10	0.0			Gray fine to medium SAND, trace Silt, wet.	
10			10-12	0.0			Gray-brown fine to coarse SAND, wet.	
			12-14	0.0				
970		9	14-15	0.0				
15								



Remarks: Analyses: 1-3': PCBs; 3-6': PCBs; 6-10': PCBs;
 10-15': PCBs.
 Duplicate sample ID: RAA13-Dup-2 (PCBs, 1-3').

Date Start/Finish: 6/8/03 Drilling Company: BBL Driller's Name: JJB Drilling Method: Direct Push Auger Size: NA Rig Type: Tractor-mounted Power Probe Sample Method: 4' Macrocore	Northing: 532613.81 Easting: 131275.10 Casing Elevation: NA Borehole Depth: 1' below grade Surface Elevation: NA Descriptions By: JAB	Boring ID: SL0131 Client: General Electric Company Location: Newell Street Area II
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DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0	0	1	0-1	0.0			Light brown fine SAND and SILT, little Organic Matter.	Borehole backfilled with Bentonite.
5								
10-10								
15-15								

 BLASLAND, BOUCK & LEE, INC. <i>engineers & scientists</i>	Remarks: Analyses: 0-1': VOCs.
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Attachment B

Soil Analytical Results

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

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR NEWELL STREET AREA II 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:	RAA13-C88 1-3 06/04/03	RAA13-C88 6-8 06/04/03	RAA13-C88 6-9 06/04/03	RAA13-F91 1-3 06/04/03	RAA13-F91 3-6 06/04/03
Volatile Organics					
1,1,1,2-Tetrachloroethane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
1,1,1-Trichloroethane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
1,1,2,2-Tetrachloroethane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
1,1,2-Trichloroethane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
1,1-Dichloroethane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
1,1-Dichloroethene	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
1,2,3-Trichloropropane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
1,2-Dibromo-3-chloropropane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
1,2-Dibromoethane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
1,2-Dichloroethane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
1,2-Dichloropropane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
1,4-Dioxane	ND(0.11) J	ND(0.16) J	NA	ND(0.12) J [ND(0.12) J]	NA
2-Butanone	ND(0.011)	ND(0.016)	NA	ND(0.012) [ND(0.012)]	NA
2-Chloro-1,3-butadiene	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
2-Chloroethylvinylether	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
2-Hexanone	ND(0.011)	ND(0.016)	NA	ND(0.012) [ND(0.012)]	NA
3-Chloropropene	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
4-Methyl-2-pentanone	ND(0.011)	ND(0.016)	NA	ND(0.012) [ND(0.012)]	NA
Acetone	ND(0.022)	0.020 J	NA	ND(0.024) [ND(0.024)]	NA
Acetonitrile	ND(0.11) J	ND(0.16) J	NA	ND(0.12) J [ND(0.12) J]	NA
Acrolein	ND(0.11) J	ND(0.16) J	NA	ND(0.12) J [ND(0.12) J]	NA
Acrylonitrile	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Benzene	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Bromodichloromethane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Bromoform	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Bromomethane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Carbon Disulfide	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Carbon Tetrachloride	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Chlorobenzene	ND(0.0055)	ND(0.0078)	NA	0.0061 [ND(0.0061)]	NA
Chloroethane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Chloroform	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Chloromethane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
cis-1,3-Dichloropropene	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Dibromochloromethane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Dibromomethane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Dichlorodifluoromethane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Ethyl Methacrylate	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Ethylbenzene	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Iodomethane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Isobutanol	ND(0.11) J	ND(0.16) J	NA	ND(0.12) J [ND(0.12) J]	NA
Methacrylonitrile	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Methyl Methacrylate	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Methylene Chloride	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Propionitrile	ND(0.011)	ND(0.016)	NA	ND(0.012) [ND(0.012)]	NA
Styrene	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Tetrachloroethene	ND(0.0055) J	ND(0.0078) J	NA	ND(0.0060) J [ND(0.0061) J]	NA
Toluene	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
trans-1,2-Dichloroethene	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
trans-1,3-Dichloropropene	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
trans-1,4-Dichloro-2-butene	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Trichloroethene	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Trichlorofluoromethane	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Vinyl Acetate	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Vinyl Chloride	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA
Xylenes (total)	ND(0.0055)	ND(0.0078)	NA	ND(0.0060) [ND(0.0061)]	NA

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

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR NEWELL STREET AREA II 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:	RAA13-C88 1-3 06/04/03	RAA13-C88 6-8 06/04/03	RAA13-C88 6-9 06/04/03	RAA13-F91 1-3 06/04/03	RAA13-F91 3-6 06/04/03
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
1,2,4-Trichlorobenzene	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
1,2-Dichlorobenzene	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
1,2-Diphenylhydrazine	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
1,3,5-Trinitrobenzene	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
1,3-Dichlorobenzene	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
1,3-Dinitrobenzene	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
1,4-Dichlorobenzene	ND(0.37) J	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
1,4-Naphthoquinone	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
1-Naphthylamine	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
2,3,4,6-Tetrachlorophenol	ND(0.37) J	NA	ND(0.51) J	ND(0.40) J [ND(0.41) J]	ND(0.40) J
2,4,5-Trichlorophenol	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
2,4,6-Trichlorophenol	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
2,4-Dichlorophenol	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
2,4-Dimethylphenol	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
2,4-Dinitrophenol	ND(1.9) J	NA	ND(2.6) J	ND(2.0) J [ND(2.1) J]	ND(2.0) J
2,4-Dinitrotoluene	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
2,6-Dichlorophenol	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
2,6-Dinitrotoluene	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
2-Acetylaminofluorene	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
2-Chloronaphthalene	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
2-Chlorophenol	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
2-Methylnaphthalene	ND(0.37)	NA	ND(0.51)	ND(0.40) [0.22 J]	1.0
2-Methylphenol	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
2-Naphthylamine	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
2-Nitroaniline	ND(1.9) J	NA	ND(2.6) J	ND(2.0) J [ND(2.1) J]	ND(2.0) J
2-Nitrophenol	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
2-Picoline	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
3&4-Methylphenol	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
3,3'-Dichlorobenzidine	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
3,3'-Dimethylbenzidine	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
3-Methylcholanthrene	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
3-Nitroaniline	ND(1.9)	NA	ND(2.6)	ND(2.0) [ND(2.1)]	ND(2.0)
4,6-Dinitro-2-methylphenol	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
4-Aminobiphenyl	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
4-Bromophenyl-phenylether	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
4-Chloro-3-Methylphenol	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
4-Chloroaniline	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
4-Chlorobenzilate	ND(0.74) J	NA	ND(1.0) J	ND(0.80) J [ND(0.82) J]	ND(0.79) J
4-Chlorophenyl-phenylether	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
4-Nitroaniline	ND(1.9)	NA	ND(2.6)	ND(2.0) [ND(2.1)]	ND(2.0)
4-Nitrophenol	ND(1.9) J	NA	ND(2.6) J	ND(2.0) J [ND(2.1) J]	ND(2.0) J
4-Nitroquinoline-1-oxide	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
4-Phenylenediamine	ND(0.74) J	NA	ND(1.0) J	ND(0.80) J [ND(0.82) J]	ND(0.79) J
5-Nitro-o-toluidine	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
7,12-Dimethylbenz(a)anthracene	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
a,a'-Dimethylphenethylamine	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
Acenaphthene	ND(0.37)	NA	ND(0.51)	0.38 J [0.55]	1.3
Acenaphthylene	ND(0.37)	NA	ND(0.51)	0.32 J [0.35 J]	ND(0.40)
Acetophenone	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Aniline	ND(0.37)	NA	ND(0.51)	0.26 J [0.18 J]	0.20 J
Anthracene	ND(0.37)	NA	ND(0.51)	1.6 J [0.94 J]	1.1
Aramite	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
Benzidine	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
Benzo(a)anthracene	ND(0.37)	NA	ND(0.51)	4.1 J [2.4 J]	1.8
Benzo(a)pyrene	ND(0.37)	NA	ND(0.51)	2.7 [2.2]	1.2
Benzo(b)fluoranthene	ND(0.37)	NA	ND(0.51)	3.7 [2.7]	1.3
Benzo(g,h,i)perylene	ND(0.37)	NA	ND(0.51)	1.6 [1.4]	0.43

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

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

Sample ID: Sample Depth(Feet): Date Collected:	RAA13-C88 1-3 06/04/03	RAA13-C88 6-8 06/04/03	RAA13-C88 6-9 06/04/03	RAA13-F91 1-3 06/04/03	RAA13-F91 3-6 06/04/03
Semivolatile Organics (continued)					
Benzo(k)fluoranthene	ND(0.37)	NA	ND(0.51)	1.4 [1.1]	0.57
Benzyl Alcohol	ND(0.74) J	NA	ND(1.0) J	ND(0.80) J [ND(0.82) J]	ND(0.79) J
bis(2-Chloroethoxy)methane	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
bis(2-Chloroethyl)ether	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
bis(2-Chloroisopropyl)ether	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
bis(2-Ethylhexyl)phthalate	ND(0.36)	NA	ND(0.51)	ND(0.39) [ND(0.40)]	ND(0.39)
Butylbenzylphthalate	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Chrysene	ND(0.37)	NA	ND(0.51)	4.4 [2.7]	1.7
Diallate	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
Dibenzo(a,h)anthracene	ND(0.37)	NA	ND(0.51)	0.50 [0.43]	0.18 J
Dibenzofuran	ND(0.37)	NA	ND(0.51)	0.20 J [0.20 J]	0.42
Diethylphthalate	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Dimethylphthalate	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Di-n-Butylphthalate	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Di-n-Octylphthalate	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Diphenylamine	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Ethyl Methanesulfonate	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Fluoranthene	ND(0.37)	NA	ND(0.51)	9.0 [6.2]	4.1
Fluorene	ND(0.37)	NA	ND(0.51)	0.38 J [0.36 J]	0.62
Hexachlorobenzene	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Hexachlorobutadiene	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Hexachlorocyclopentadiene	ND(0.37) J	NA	ND(0.51) J	ND(0.40) J [ND(0.41) J]	ND(0.40) J
Hexachloroethane	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Hexachlorophene	ND(0.74) J	NA	ND(1.0) J	ND(0.80) J [ND(0.82) J]	ND(0.79) J
Hexachloropropene	ND(0.37) J	NA	ND(0.51) J	ND(0.40) J [ND(0.41) J]	ND(0.40) J
Indeno(1,2,3-cd)pyrene	ND(0.37)	NA	ND(0.51)	1.4 [1.2]	0.45
Isodrin	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Isophorone	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Isosafrole	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
Methapyrilene	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
Methyl Methanesulfonate	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Naphthalene	ND(0.37)	NA	ND(0.51)	0.13 J [0.52 J]	2.2
Nitrobenzene	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
N-Nitrosodiethylamine	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
N-Nitrosodimethylamine	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
N-Nitroso-di-n-butylamine	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
N-Nitroso-di-n-propylamine	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
N-Nitrosodiphenylamine	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
N-Nitrosomethylethylamine	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
N-Nitrosomorpholine	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
N-Nitrosopiperidine	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
N-Nitrosopyrrolidine	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
o,o,o-Triethylphosphorothioate	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
o-Toluidine	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
p-Dimethylaminoazobenzene	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
Pentachlorobenzene	ND(0.37) J	NA	ND(0.51) J	ND(0.40) J [ND(0.41) J]	ND(0.40) J
Pentachloroethane	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Pentachloronitrobenzene	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
Pentachlorophenol	ND(1.9) J	NA	ND(2.6)	ND(2.0) [ND(2.1)]	ND(2.0)
Phenacetin	ND(0.74)	NA	ND(1.0)	ND(0.80) [ND(0.82)]	ND(0.79)
Phenanthrene	ND(0.37)	NA	ND(0.51)	7.4 J [3.7 J]	4.2
Phenol	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Pronamide	ND(0.37) J	NA	ND(0.51) J	ND(0.40) J [ND(0.41) J]	ND(0.40) J
Pyrene	ND(0.37) J	NA	ND(0.51)	8.0 [5.4]	3.3
Pyridine	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Safrole	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)
Thionazin	ND(0.37)	NA	ND(0.51)	ND(0.40) [ND(0.41)]	ND(0.40)

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

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

Sample ID: Sample Depth(Feet): Date Collected:	RAA13-C88 1-3 06/04/03	RAA13-C88 6-8 06/04/03	RAA13-C88 6-9 06/04/03	RAA13-F91 1-3 06/04/03	RAA13-F91 3-6 06/04/03
Furans					
2,3,7,8-TCDF	ND(0.0000033) XY	NA	NA	0.0022 Y [0.00021 Y]	0.000079 Y
TCDFs (total)	0.0000029	NA	NA	0.0021 I [0.0018 I]	0.0027 I
1,2,3,7,8-PeCDF	ND(0.00000041)	NA	NA	0.00011 [0.00015]	0.000072
2,3,4,7,8-PeCDF	ND(0.00000035)	NA	NA	0.00016 [0.00029]	0.00013
PeCDFs (total)	0.0000022	NA	NA	0.0040 I [0.0047 I]	0.0049 I
1,2,3,4,7,8-HxCDF	ND(0.00000021)	NA	NA	0.00066 I [0.0014 I]	0.00079
1,2,3,6,7,8-HxCDF	ND(0.00000022)	NA	NA	0.00029 I [0.00058 I]	0.00056 I
1,2,3,7,8,9-HxCDF	ND(0.00000021)	NA	NA	0.00014 [0.00023]	0.000019
2,3,4,6,7,8-HxCDF	ND(0.00000022)	NA	NA	0.000098 [0.00014]	0.000063
HxCDFs (total)	ND(0.00000072)	NA	NA	0.0037 I [0.0061 I]	0.0037 I
1,2,3,4,6,7,8-HpCDF	ND(0.0000010) X	NA	NA	0.00066 [0.00079]	0.00040
1,2,3,4,7,8,9-HpCDF	ND(0.00000025)	NA	NA	0.00021 [0.00039]	0.00027
HpCDFs (total)	ND(0.0000015)	NA	NA	0.0018 [0.0023]	0.0012
OCDF	ND(0.00000030)	NA	NA	0.00072 [0.00063]	0.00020
Dioxins					
2,3,7,8-TCDD	ND(0.00000028)	NA	NA	0.000072 [0.000080]	ND(0.00000079)
TCDDs (total)	ND(0.0000011)	NA	NA	0.00014 [0.00014]	ND(0.0000059)
1,2,3,7,8-PeCDD	ND(0.00000020)	NA	NA	ND(0.00000072) [ND(0.00000037)]	ND(0.0000011)
PeCDDs (total)	ND(0.0000016)	NA	NA	ND(0.0000053) [ND(0.00000098) X]	ND(0.000015) X
1,2,3,4,7,8-HxCDD	ND(0.00000039) X	NA	NA	0.0000072 [0.000011]	ND(0.00000056)
1,2,3,6,7,8-HxCDD	ND(0.00000045)	NA	NA	ND(0.0000036) [0.000018]	ND(0.0000048) X
1,2,3,7,8,9-HxCDD	ND(0.00000044)	NA	NA	ND(0.0000034) [ND(0.000013) X]	ND(0.0000089) X
HxCDDs (total)	ND(0.00000092)	NA	NA	0.000058 [0.00011]	ND(0.0000035) X
1,2,3,4,6,7,8-HpCDD	ND(0.00000021)	NA	NA	0.00037 [0.00034]	0.000099
HpCDDs (total)	ND(0.0000017)	NA	NA	0.00064 [0.00088]	0.00016
OCDD	0.0000050	NA	NA	0.0025 [0.0026]	0.00067
Total TEQs (WHO TEFs)	0.00000079	NA	NA	0.00050 [0.00049]	0.00023
Inorganics					
Antimony	2.60 B	NA	ND(6.00)	6.80 [2.30 B]	1.40 B
Arsenic	8.70	NA	1.60	6.80 [6.40]	7.20
Barium	48.0	NA	37.0	100 [100]	190
Beryllium	ND(0.50)	NA	0.500	ND(0.50) [ND(0.50)]	ND(0.50)
Cadmium	0.300 B	NA	0.410 B	1.50 [1.50]	3.10
Chromium	9.00 J	NA	9.80 J	960 J [13.0 J]	12.0 J
Cobalt	12.0	NA	7.60	7.60 [7.80]	5.20
Copper	29.0 J	NA	12.0 J	760 J [190 J]	520 J
Cyanide	ND(0.220)	NA	0.0460 B	0.180 [0.230]	0.160
Lead	23.0 J	NA	5.20 J	7900 J [360 J]	230 J
Mercury	0.140 J	NA	0.0510 J	1.00 J [0.770 J]	2.70 J
Nickel	18.0	NA	12.0	19.0 [18.0]	18.0
Selenium	ND(1.00)	NA	ND(1.20)	ND(1.00) [ND(1.00)]	ND(1.00)
Silver	ND(1.00)	NA	ND(1.20)	ND(1.0) [ND(1.0)]	ND(1.00)
Sulfide	46.0 J	NA	17.0 J	19.0 J [36.0 J]	82.0 J
Thallium	ND(1.10)	NA	ND(1.50)	ND(1.20) [ND(1.20)]	ND(1.20)
Tin	ND(10)	NA	ND(12)	120 [36.0]	38.0
Vanadium	7.60	NA	11.0	14.0 [15.0]	9.00
Zinc	54.0	NA	55.0	510 [330]	640

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

SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR NEWELL STREET AREA II 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:	RAA13-F91 4-6 06/04/03	RAA13-G92 1-3 06/04/03	RAA13-G92 10-12 06/04/03	RAA13-G92 10-15 06/04/03	RAA13-Z88 3-6 06/04/03	SL0131 0-1 06/04/03
Volatiles Organics						
1,1,1,2-Tetrachloroethane	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
1,1,1-Trichloroethane	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
1,1,2,2-Tetrachloroethane	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
1,1,2-Trichloroethane	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
1,1-Dichloroethane	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
1,1-Dichloroethene	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
1,2,3-Trichloropropane	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
1,2-Dibromo-3-chloropropane	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
1,2-Dibromoethane	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
1,2-Dichloroethane	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
1,2-Dichloropropane	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
1,4-Dioxane	0.089 J	0.075 J	ND(98) J	NA	NA	ND(0.11) J
2-Butanone	ND(0.011)	ND(0.013)	ND(4.9)	NA	NA	ND(0.011)
2-Chloro-1,3-butadiene	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
2-Chloroethylvinylether	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
2-Hexanone	ND(0.011)	ND(0.013)	ND(4.9)	NA	NA	ND(0.011)
3-Chloropropene	ND(0.0057)	ND(0.0063)	ND(4.9)	NA	NA	ND(0.0057)
4-Methyl-2-pentanone	ND(0.011)	ND(0.013)	ND(4.9)	NA	NA	ND(0.011)
Acetone	ND(0.023)	ND(0.025)	ND(49)	NA	NA	ND(0.023)
Acetonitrile	ND(0.11) J	ND(0.13) J	ND(49) J	NA	NA	ND(0.11) J
Acrolein	ND(0.11) J	ND(0.13) J	ND(49) J	NA	NA	ND(0.11) J
Acrylonitrile	ND(0.0057)	ND(0.0063)	ND(4.9)	NA	NA	ND(0.0057)
Benzene	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
Bromodichloromethane	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
Bromoform	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
Bromomethane	ND(0.0057)	ND(0.0063)	ND(4.9)	NA	NA	ND(0.0057)
Carbon Disulfide	ND(0.0057)	ND(0.0063)	ND(4.9)	NA	NA	ND(0.0057)
Carbon Tetrachloride	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
Chlorobenzene	ND(0.0057)	ND(0.0063)	34	NA	NA	ND(0.0057)
Chloroethane	ND(0.0057)	ND(0.0063)	ND(4.9)	NA	NA	ND(0.0057)
Chloroform	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
Chloromethane	ND(0.0057)	ND(0.0063)	ND(4.9)	NA	NA	ND(0.0057)
cis-1,3-Dichloropropene	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
Dibromochloromethane	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
Dibromomethane	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
Dichlorodifluoromethane	ND(0.0057)	ND(0.0063)	ND(4.9)	NA	NA	ND(0.0057)
Ethyl Methacrylate	ND(0.0057)	ND(0.0063)	ND(4.9)	NA	NA	ND(0.0057)
Ethylbenzene	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
Iodomethane	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
Isobutanol	ND(0.11) J	ND(0.13) J	ND(98) J	NA	NA	ND(0.11) J
Methacrylonitrile	ND(0.0057)	ND(0.0063)	ND(4.9)	NA	NA	ND(0.0057)
Methyl Methacrylate	ND(0.0057)	ND(0.0063)	ND(4.9)	NA	NA	ND(0.0057)
Methylene Chloride	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
Propionitrile	ND(0.011)	ND(0.013)	ND(24)	NA	NA	ND(0.011)
Styrene	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
Tetrachloroethene	ND(0.0057) J	ND(0.0063) J	ND(2.4) J	NA	NA	ND(0.0057) J
Toluene	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
trans-1,2-Dichloroethene	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
trans-1,3-Dichloropropene	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
trans-1,4-Dichloro-2-butene	ND(0.0057)	ND(0.0063)	ND(4.9)	NA	NA	ND(0.0057)
Trichloroethene	ND(0.0057)	0.069	ND(2.4)	NA	NA	ND(0.0057)
Trichlorofluoromethane	ND(0.0057)	ND(0.0063)	ND(2.4)	NA	NA	ND(0.0057)
Vinyl Acetate	ND(0.0057)	ND(0.0063)	ND(4.9)	NA	NA	ND(0.0057)
Vinyl Chloride	ND(0.0057)	ND(0.0063)	ND(4.9)	NA	NA	ND(0.0057)
Xylenes (total)	ND(0.0057)	ND(0.0063)	17	NA	NA	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 NEWELL STREET AREA II 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:	RAA13-F91 4-6 06/04/03	RAA13-G92 1-3 06/04/03	RAA13-G92 10-12 06/04/03	RAA13-G92 10-15 06/04/03	RAA13-Z88 3-6 06/04/03	SL0131 0-1 06/04/03
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene	NA	0.50	NA	ND(0.49)	ND(0.42)	NA
1,2,4-Trichlorobenzene	NA	8.2	NA	ND(0.49)	0.16 J	NA
1,2-Dichlorobenzene	NA	0.078 J	NA	ND(0.49)	ND(0.42)	NA
1,2-Diphenylhydrazine	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
1,3,5-Trinitrobenzene	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
1,3-Dichlorobenzene	NA	0.085 J	NA	0.24 J	ND(0.42)	NA
1,3-Dinitrobenzene	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
1,4-Dichlorobenzene	NA	0.11 J	NA	1.3	ND(0.42)	NA
1,4-Naphthoquinone	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
1-Naphthylamine	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
2,3,4,6-Tetrachlorophenol	NA	ND(0.42) J	NA	ND(0.49) J	ND(0.42) J	NA
2,4,5-Trichlorophenol	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
2,4,6-Trichlorophenol	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
2,4-Dichlorophenol	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
2,4-Dimethylphenol	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
2,4-Dinitrophenol	NA	ND(2.1) J	NA	ND(2.5) J	ND(2.1) J	NA
2,4-Dinitrotoluene	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
2,6-Dichlorophenol	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
2,6-Dinitrotoluene	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
2-Acetylaminofluorene	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
2-Chloronaphthalene	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
2-Chlorophenol	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
2-Methylnaphthalene	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
2-Methylphenol	NA	0.15 J	NA	ND(0.49)	ND(0.42)	NA
2-Naphthylamine	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
2-Nitroaniline	NA	ND(2.1) J	NA	ND(2.5) J	ND(2.1) J	NA
2-Nitrophenol	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
2-Picoline	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
3&4-Methylphenol	NA	0.14 J	NA	ND(0.98)	ND(0.83)	NA
3,3'-Dichlorobenzidine	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
3,3'-Dimethylbenzidine	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
3-Methylcholanthrene	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
3-Nitroaniline	NA	ND(2.1)	NA	ND(2.5)	ND(2.1)	NA
4,6-Dinitro-2-methylphenol	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
4-Aminobiphenyl	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
4-Bromophenyl-phenylether	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
4-Chloro-3-Methylphenol	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
4-Chloroaniline	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
4-Chlorobenzilate	NA	ND(0.85) J	NA	ND(0.98) J	ND(0.83) J	NA
4-Chlorophenyl-phenylether	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
4-Nitroaniline	NA	ND(2.1)	NA	ND(2.5)	ND(2.1)	NA
4-Nitrophenol	NA	ND(2.1) J	NA	ND(2.5) J	ND(2.1) J	NA
4-Nitroquinoline-1-oxide	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
4-Phenylenediamine	NA	ND(0.85) J	NA	ND(0.98) J	ND(0.83) J	NA
5-Nitro-o-toluidine	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
7,12-Dimethylbenz(a)anthracene	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
a,a'-Dimethylphenethylamine	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
Acenaphthene	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Acenaphthylene	NA	ND(0.42)	NA	ND(0.49)	0.23 J	NA
Acetophenone	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Aniline	NA	3.9	NA	ND(0.49)	0.42	NA
Anthracene	NA	0.18 J	NA	ND(0.49)	0.19 J	NA
Aramite	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
Benzidine	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
Benzo(a)anthracene	NA	0.40 J	NA	ND(0.49)	0.54	NA
Benzo(a)pyrene	NA	0.45	NA	ND(0.49)	0.53	NA
Benzo(b)fluoranthene	NA	0.86	NA	ND(0.49)	0.64	NA
Benzo(g,h,i)perylene	NA	0.50	NA	ND(0.49)	0.34 J	NA

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

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

Sample ID: Sample Depth(Feet): Date Collected:	RAA13-F91 4-6 06/04/03	RAA13-G92 1-3 06/04/03	RAA13-G92 10-12 06/04/03	RAA13-G92 10-15 06/04/03	RAA13-Z88 3-6 06/04/03	SL0131 0-1 06/04/03
Semivolatile Organics (continued)						
Benzo(k)fluoranthene	NA	0.32 J	NA	ND(0.49)	0.24 J	NA
Benzyl Alcohol	NA	ND(0.85) J	NA	ND(0.98) J	ND(0.83) J	NA
bis(2-Chloroethoxy)methane	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
bis(2-Chloroethyl)ether	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
bis(2-Chloroisopropyl)ether	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
bis(2-Ethylhexyl)phthalate	NA	ND(0.42)	NA	ND(0.48)	ND(0.41)	NA
Butylbenzylphthalate	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Chrysene	NA	0.74	NA	ND(0.49)	0.51	NA
Diallylate	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
Dibenzo(a,h)anthracene	NA	0.13 J	NA	ND(0.49)	0.11 J	NA
Dibenzofuran	NA	0.24 J	NA	ND(0.49)	ND(0.42)	NA
Diethylphthalate	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Dimethylphthalate	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Di-n-Butylphthalate	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Di-n-Octylphthalate	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Diphenylamine	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Ethyl Methanesulfonate	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Fluoranthene	NA	1.5	NA	ND(0.49)	0.89	NA
Fluorene	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Hexachlorobenzene	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Hexachlorobutadiene	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Hexachlorocyclopentadiene	NA	ND(0.42) J	NA	ND(0.49) J	ND(0.42) J	NA
Hexachloroethane	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Hexachlorophene	NA	ND(0.85) J	NA	ND(0.98) J	ND(0.83) J	NA
Hexachloropropene	NA	ND(0.42) J	NA	ND(0.49) J	ND(0.42) J	NA
Indeno(1,2,3-cd)pyrene	NA	0.41 J	NA	ND(0.49)	0.30 J	NA
Isodrin	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Isophorone	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Isosafrole	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
Methapyrilene	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
Methyl Methanesulfonate	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Naphthalene	NA	0.27 J	NA	0.21 J	0.14 J	NA
Nitrobenzene	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
N-Nitrosodiethylamine	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
N-Nitrosodimethylamine	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
N-Nitroso-di-n-butylamine	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
N-Nitroso-di-n-propylamine	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
N-Nitrosodiphenylamine	NA	0.18 J	NA	ND(0.49)	ND(0.42)	NA
N-Nitrosomethylethylamine	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
N-Nitrosomorpholine	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
N-Nitrosopiperidine	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
N-Nitrosopyrrolidine	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
o,o,o-Triethylphosphorothioate	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
o-Toluidine	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
p-Dimethylaminoazobenzene	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
Pentachlorobenzene	NA	0.25 J	NA	ND(0.49) J	ND(0.42) J	NA
Pentachloroethane	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Pentachloronitrobenzene	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
Pentachlorophenol	NA	ND(2.1)	NA	ND(2.5)	ND(2.1)	NA
Phenacetin	NA	ND(0.85)	NA	ND(0.98)	ND(0.83)	NA
Phenanthrene	NA	1.1	NA	ND(0.49)	0.58	NA
Phenol	NA	1.9	NA	ND(0.49)	ND(0.42)	NA
Pronamide	NA	ND(0.42) J	NA	ND(0.49) J	ND(0.42) J	NA
Pyrene	NA	1.0	NA	ND(0.49)	1.1	NA
Pyridine	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Safrole	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA
Thionazin	NA	ND(0.42)	NA	ND(0.49)	ND(0.42)	NA

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

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

Sample ID: Sample Depth(Feet): Date Collected:	RAA13-F91 4-6 06/04/03	RAA13-G92 1-3 06/04/03	RAA13-G92 10-12 06/04/03	RAA13-G92 10-15 06/04/03	RAA13-Z88 3-6 06/04/03	SL0131 0-1 06/04/03
Furans						
2,3,7,8-TCDF	NA	0.068 Y	NA	NA	0.00071 Y	NA
TCDFs (total)	NA	0.34 I	NA	NA	0.012	NA
1,2,3,7,8-PeCDF	NA	0.032	NA	NA	0.00059	NA
2,3,4,7,8-PeCDF	NA	0.049	NA	NA	0.00064	NA
PeCDFs (total)	NA	0.38 I	NA	NA	0.029	NA
1,2,3,4,7,8-HxCDF	NA	0.094 I	NA	NA	0.0020	NA
1,2,3,6,7,8-HxCDF	NA	0.033 I	NA	NA	0.0025 I	NA
1,2,3,7,8,9-HxCDF	NA	0.0011	NA	NA	0.000028	NA
2,3,4,6,7,8-HxCDF	NA	0.013	NA	NA	0.00028	NA
HxCDFs (total)	NA	0.28 I	NA	NA	0.018	NA
1,2,3,4,6,7,8-HpCDF	NA	0.080	NA	NA	0.0029	NA
1,2,3,4,7,8,9-HpCDF	NA	0.013	NA	NA	0.00044	NA
HpCDFs (total)	NA	0.13	NA	NA	0.0065	NA
OCDF	NA	0.058	NA	NA	0.0021	NA
Dioxins						
2,3,7,8-TCDD	NA	0.00033	NA	NA	0.000026	NA
TCDDs (total)	NA	0.016	NA	NA	0.00023	NA
1,2,3,7,8-PeCDD	NA	ND(0.00060) X	NA	NA	ND(0.0000069)	NA
PeCDDs (total)	NA	0.0020	NA	NA	ND(0.000047) X	NA
1,2,3,4,7,8-HxCDD	NA	0.00077	NA	NA	0.000020	NA
1,2,3,6,7,8-HxCDD	NA	0.0015	NA	NA	0.000025	NA
1,2,3,7,8,9-HxCDD	NA	0.0021	NA	NA	0.000038	NA
HxCDDs (total)	NA	0.015	NA	NA	0.00026	NA
1,2,3,4,6,7,8-HpCDD	NA	0.0087	NA	NA	0.00019	NA
HpCDDs (total)	NA	0.017	NA	NA	0.00036	NA
OCDD	NA	0.015	NA	NA	0.00057	NA
Total TEQs (WHO TEFs)	NA	0.049	NA	NA	0.00097	NA
Inorganics						
Antimony	NA	31.0	NA	1.00 B	3.30 B	NA
Arsenic	NA	15.0	NA	2.80	4.70	NA
Barium	NA	480	NA	51.0	77.0	NA
Beryllium	NA	1.20	NA	ND(0.50)	ND(0.50)	NA
Cadmium	NA	12.0	NA	0.190 B	1.30	NA
Chromium	NA	200 J	NA	8.00 J	16.0 J	NA
Cobalt	NA	18.0	NA	5.10	6.10	NA
Copper	NA	3100 J	NA	12.0 J	200 J	NA
Cyanide	NA	1.00	NA	0.0800 B	0.220	NA
Lead	NA	4400 J	NA	8.60 J	900 J	NA
Mercury	NA	25.0 J	NA	0.0660 J	0.370 J	NA
Nickel	NA	140	NA	10.0	11.0	NA
Selenium	NA	1.20	NA	ND(1.10)	ND(1.00)	NA
Silver	NA	13.0	NA	ND(1.10)	ND(1.0)	NA
Sulfide	NA	10.0 J	NA	59.0 J	16.0 J	NA
Thallium	NA	14.0	NA	ND(1.50)	ND(1.20)	NA
Tin	NA	280	NA	5.10 B	180	NA
Vanadium	NA	14.0	NA	8.70	7.90	NA
Zinc	NA	5900	NA	59.0	360	NA

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

**SUPPLEMENTAL PRE-DESIGN INVESTIGATION REPORT FOR NEWELL STREET AREA II 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. NA - Not Analyzed.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
5. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
6. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, semivolatiles, dioxin/furans)

- I - Polychlorinated Diphenyl Ether (PCDPE) Interference.
- J - Indicates that the associated numerical value is an estimated concentration.
- 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.

Attachment C

Soil Sampling Data Validation Report

ATTACHMENT C

GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS

AREA REMOVAL ACTION PRE-DESIGN INVESTIGATION

SOIL SAMPLING DATA VALIDATION REPORT

1.0 General

This Attachment summarizes the Tier I and Tier II data reviews performed for soil samples collected during the supplemental pre-design investigation activities at Newell Street Area II, 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 9 polychlorinated biphenyl (PCB) samples, 10 volatile organic compound (VOC) samples, 9 semi-volatile organic compound (SVOC) samples, 6 polychlorinated dibenzo-p-dioxin (PCDD)/polychlorinated dibenzofuran (PCDF) samples, 9 metals samples, and 9 cyanide/sulfide samples.

2.0 Data Evaluation Procedures

This Attachment outlines the applicable quality control criteria utilized during the data review process and any deviations from those criteria. The data review was conducted in accordance with the guidelines presented in 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);
- *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 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 requires (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	0	0	0	7	1	1	9
VOCs	0	0	0	7	1	1	9
SVOCs	0	0	0	7	1	2	10
PCDDs/PCDFs	0	0	0	5	1	0	6
Metals	0	0	0	7	1	1	9
Cyanide/Sulfide	0	0	0	7	1	1	9
Total	0	0	0	40	6	6	52

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, a Tier II review was also performed to resolve data usability limitations identified from laboratory qualification of the data during the Tier I data review. The Tier II data review consisted of a

review of all data package summary forms for identification of Quality Assurance/Quality Control (QA/QC) deviations and qualification of the data according to the Region I Data Validation Functional Guidelines. The Tier II review resulted in the qualification of data for several samples due to minor QA/QC deficiencies.

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	8	J
	2-Chloroethylvinylether	2	J
	Acetonitrile	10	J
	Acrolein	10	J
	Isobutanol	10	J
	Propionitrile	2	J
SVOCs	Hexachlorophene	9	J

Continuing calibration criterion for organic analyses requires that the continuing calibration RRF have a value greater than 0.05. Sample results were qualified as estimated (J) when this criterion was exceeded. The compound that exceeded continuing calibration criterion and the number of samples qualified are presented below.

Analysis Qualified Due to Continuing Calibration RRF Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	2-Butanone	2	J

Several of the organic compounds (including the compounds presented in the above tables detailing RRF deviations) exhibit instrument Response Factors (RFs) below the USEPA Region I minimum value of 0.05, but meet the analytical method criterion which does not specify minimum RFs for these compounds. These compounds were analyzed by the laboratory at a higher concentration than the compounds that normally exhibit RFs greater than the USEPA Region I minimum value of 0.05 in an effort to demonstrate acceptable response. USEPA Region I guidelines state that non-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	9	J
	4-Nitrophenol	9	J
	Hexachlorocyclopentadiene	9	J

The continuing calibration criterion requires that the percent difference (%D) between the initial calibration RRF and the continuing calibration RRF for VOCs and SVOCs be less than 25%. Sample data for 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	Tetrachloroethene	8	J
SVOCs	2,3,4,6-Tetrachlorophenol	9	J
	2-Nitroaniline	9	J
	4-Chlorobenzilate	9	J
	4-Phenylenediamine	9	J
	Benzyl Alcohol	9	J
	Hexachloropropene	9	J
	Pentachlorobenzene	9	J
	Pronamide	9	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 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 detected in the method blanks and which resulted in qualification of sample data are presented below.

Analytes Qualified Due to Blank Deviations

Analysis	Compound	Number of Affected Samples	Qualification
Inorganics	Beryllium	6	U
	Silver	3	U
	Tin	2	U

Matrix spike (MS) sample analysis recovery criteria for inorganics require that spike recoveries be between 75 and 125%. Inorganic sample results that exceeded these limits were qualified as estimated (J). Analytes that did not meet MS recovery criteria and the samples qualified due to those deviations are presented below.

Analytes Qualified Due to Matrix Spike Recovery Deviations

Analysis	Analyte	Number of Affected Samples	Qualification
Inorganics	Mercury	8	J

MS sample analysis recovery criteria for organics require that the relative percent difference (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
SVOCs	1,4-Dichlorobenzene	1	J
	4-Nitrophenol	1	J
	Pentachlorophenol	1	J
	Pyrene	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	Chromium	8	J
	Copper	8	J
	Lead	8	J
SVOCs	Anthracene	2	J
	Benzo(a)anthracene	2	J
	Naphthalene	2	J
Conventional	Sulfide	8	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
PCBs	100	None
PCDDs/PCDFs	100	None

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

5.1 Precision

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, it is a quantitative measure of the variability of a group of measurements compared to their average value. For this investigation, precision was defined as the RPD between duplicate sample results. The duplicate samples used to evaluate precision included laboratory duplicates, field duplicates, MS/MSD samples, and ICP serial dilution samples. For this analytical program, 0.20% of the data required qualification MS/MSD RPD deviations and 2.0% 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, 8.1% of the data required qualification for calibration deviations and 0.40% required qualification for MS/MSD recoveries. None of the data required qualification for CRDL standard recovery deviations, 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-846¹ analytical methods presented in the FSP/QAPP

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

are updated on occasion by the USEPA to benefit from recent technological advancements in analytical chemistry and instrumentation. In most cases, the method upgrades include the incorporation of new technology that improves the sensitivity and stability of the instrumentation or allows the laboratory to increase throughput without hindering accuracy and precision. Overall, the analytical methods for this investigation have remained consistent in their general approach through continued use of the basic analytical techniques (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%.

TABLE C-1
NEWELL STREET AREA II PDI SAMPLES

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																	
3F0P100	RAA13-C88 (1 - 3)	6/4/03	Soil	Tier II	No												
3F0P100	RAA13-C88 (3 - 6)	6/4/03	Soil	Tier II	No												
3F0P100	RAA13-C88 (6 - 9)	6/4/03	Soil	Tier II	No												
3F0P100	RAA13-DUP-2 (1 - 3)	6/4/03	Soil	Tier II	No						RAA13-Z90						
3F0P100	RAA13-Z90 (1 - 3)	6/4/03	Soil	Tier II	No												
3F0P100	RAA13-Z90 (10 - 15)	6/4/03	Soil	Tier II	No												
3F0P100	RAA13-Z90 (3 - 6)	6/4/03	Soil	Tier II	No												
3F0P100	RAA13-Z90 (6 - 10)	6/4/03	Soil	Tier II	No												
3F0P100	RB-060403-1 (0 - 0)	6/4/03	Water	Tier II	No												
Metals																	
3F0P100	RAA13-C88 (1 - 3)	6/4/2003	Soil	Tier II	Yes	Beryllium	Method Blank	-	-	ND(0.50)							
						Chromium	Field Duplicate RPD (Soil)	194.7%	<50%	9.00 J							
						Copper	Field Duplicate RPD (Soil)	120.0%	<50%	29.0 J							
						Lead	Field Duplicate RPD (Soil)	182.6%	<50%	23.0 J							
						Mercury	MS %R	126.0%	80% to 120%	0.140 J							
						Tin	Method Blank	-	-	ND(10)							
						3F0P100	RAA13-C88 (6 - 9)	6/4/2003	Soil	Tier II	Yes	Chromium	Field Duplicate RPD (Soil)	194.7%	<50%	9.80 J	
						Copper	Field Duplicate RPD (Soil)	120.0%	<50%	12.0 J							
						Lead	Field Duplicate RPD (Soil)	182.6%	<50%	5.20 J							
						Mercury	MS %R	126.0%	80% to 120%	0.0510 J							
						Tin	Method Blank	-	-	ND(12)							
3F0P100	RAA13-DUP-1 (1 - 3)	6/4/2003	Soil	Tier II	Yes	Beryllium	Method Blank	-	-	ND(0.50)	RAA13-F91						
						Chromium	Field Duplicate RPD (Soil)	194.7%	<50%	13.0 J							
						Copper	Field Duplicate RPD (Soil)	120.0%	<50%	190 J							
						Lead	Field Duplicate RPD (Soil)	182.6%	<50%	360 J							
						Mercury	MS %R	126.0%	80% to 120%	0.770 J							
						Silver	Method Blank	-	-	ND(1.0)							
						3F0P100	RAA13-F91 (1 - 3)	6/4/2003	Soil	Tier II	Yes	Beryllium	Method Blank	-	-	ND(0.50)	
						Chromium	Field Duplicate RPD (Soil)	194.7%	<50%	960 J							
						Copper	Field Duplicate RPD (Soil)	120.0%	<50%	760 J							
						Lead	Field Duplicate RPD (Soil)	182.6%	<50%	7900 J							
						Mercury	MS %R	126.0%	80% to 120%	1.00 J							
						Silver	Method Blank	-	-	ND(1.0)							
3F0P100	RAA13-F91 (3 - 6)	6/4/2003	Soil	Tier II	Yes	Beryllium	Method Blank	-	-	ND(0.50)							
						Chromium	Field Duplicate RPD (Soil)	194.7%	<50%	12.0 J							
						Copper	Field Duplicate RPD (Soil)	120.0%	<50%	520 J							
						Lead	Field Duplicate RPD (Soil)	182.6%	<50%	230 J							
						Mercury	MS %R	126.0%	80% to 120%	2.70 J							
						3F0P100	RAA13-G92 (1 - 3)	6/4/2003	Soil	Tier II	Yes	Chromium	Field Duplicate RPD (Soil)	194.7%	<50%	200 J	
												Copper	Field Duplicate RPD (Soil)	120.0%	<50%	3100 J	
						Lead	Field Duplicate RPD (Soil)	182.6%	<50%	4400 J							
						Mercury	MS %R	126.0%	80% to 120%	25.0 J							

TABLE C-1
NEWELL STREET AREA II PDI SAMPLES

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 (cont'd)											
3F0P100	RAA13-G92 (10 - 15)	6/4/2003	Soil	Tier II	Yes	Beryllium	Method Blank	-	-	ND(0.50)	
						Chromium	Field Duplicate RPD (Soil)	194.7%	<50%	8.00 J	
						Copper	Field Duplicate RPD (Soil)	120.0%	<50%	12.0 J	
						Lead	Field Duplicate RPD (Soil)	182.6%	<50%	8.60 J	
						Mercury	MS %R	126.0%	80% to 120%	0.0660 J	
3F0P100	RAA13-Z88 (3 - 6)	6/4/2003	Soil	Tier II	Yes	Beryllium	Method Blank	-	-	ND(0.50)	
						Chromium	Field Duplicate RPD (Soil)	194.7%	<50%	16.0 J	
						Copper	Field Duplicate RPD (Soil)	120.0%	<50%	200 J	
						Lead	Field Duplicate RPD (Soil)	182.6%	<50%	900 J	
						Mercury	MS %R	126.0%	80% to 120%	0.370 J	
						Silver	Method Blank	-	-	ND(1.0)	
3F0P100	RB-060403-1 (0 - 0)	6/4/2003	Water	Tier II	No						
VOCs											
3F0P100	RAA13-C88 (1 - 3)	6/4/2003	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	>0.06	ND(0.11) J	
						Isobutanol	ICAL RRF	0.004	>0.07	ND(0.11) J	
						Tetrachloroethene	CCAL %D	26.8%	<25%	ND(0.0055) J	
3F0P100	RAA13-C88 (6 - 8)	6/4/2003	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.16) J	
						Acetonitrile	ICAL RRF	0.041	>0.05	ND(0.16) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.16) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.16) J	
						Tetrachloroethene	CCAL %D	26.8%	<25%	ND(0.0078) J	
3F0P100	RAA13-DUP-1 (1 - 3)	6/4/2003	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(0.12) J	RAA13-F91
						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	
						Tetrachloroethene	CCAL %D	26.8%	<25%	ND(0.0061) J	
3F0P100	RAA13-F91 (1 - 3)	6/4/2003	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	
						Tetrachloroethene	CCAL %D	26.8%	<25%	ND(0.0060) J	
3F0P100	RAA13-F91 (4 - 6)	6/4/2003	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	0.089 J 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	
						Tetrachloroethene	CCAL %D	26.8%	<25%	ND(0.0057) J	
3F0P100	RAA13-G92 (1 - 3)	6/4/2003	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	0.075 J J	
						Acetonitrile	ICAL RRF	0.041	>0.05	ND(0.13) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(0.13) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.13) J	
						Tetrachloroethene	CCAL %D	26.8%	<25%	ND(0.0063) J	
3F0P100	RAA13-G92 (10 - 12)	6/4/2003	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.010	>0.05	ND(98) J	
						Acetonitrile	ICAL RRF	0.041	>0.05	ND(49) J	
						Acrolein	ICAL RRF	0.005	>0.05	ND(49) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(98) J	
						Tetrachloroethene	CCAL %D	26.8%	<25%	ND(2.4) J	
3F0P100	RB-060403-1	6/4/2003	Water	Tier II	Yes	2-Butanone	CCAL RRF	0.049	>0.05	ND(0.010) J	
						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
NEWELL STREET AREA II PDI SAMPLES
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 (cont'd)																	
3F0P100	TRIP BLANK	6/4/2003	Water	Tier II	Yes	2-Butanone	CCAL RRF	0.049	>0.05	ND(0.010) J							
						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							
3F0P100	SL0131 (0 - 1)	6/4/2003	Soil	Tier II	Yes	Propionitrile	ICAL RRF	0.014	>0.05	ND(0.010) J							
						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							
						Tetrachloroethene	CCAL %D	26.8%	<25%	ND(0.0057) J							
SVOCs																	
3F0P100	RAA13-C88 (1 - 3)	6/4/2003	Soil	Tier II	Yes	1,4-Dichlorobenzene	MS/MSD RPD	36.0%	<27%	ND(0.37) J							
						2,3,4,6-Tetrachlorophenol	CCAL %D	41.6%	<25%	ND(0.37) J							
						2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(1.9) J							
						2-Nitroaniline	CCAL %D	28.3%	<25%	ND(1.9) J							
						4-Chlorobenzilate	CCAL %D	38.4%	<25%	ND(0.74) J							
						4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(1.9) J							
						4-Nitrophenol	MS/MSD RPD	102.0%	<50%	ND(1.9) J							
						4-Phenylenediamine	CCAL %D	37.2%	<25%	ND(0.74) J							
						Benzyl Alcohol	CCAL %D	35.8%	<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	75.4%	<25%	ND(0.37) J							
						Pentachlorobenzene	CCAL %D	33.2%	<25%	ND(0.37) J							
						Pentachlorophenol	MS/MSD RPD	62.0%	<62%	ND(1.9) J							
						Pronamide	CCAL %D	26.9%	<25%	ND(0.37) J							
						Pyrene	MS/MSD RPD	46.0%	<36%	ND(0.37) J							
3F0P100	RAA13-C88 (6 - 9)	6/4/2003	Soil	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	41.6%	<25%	ND(0.51) J							
						2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(2.6) J							
						2-Nitroaniline	CCAL %D	28.3%	<25%	ND(2.6) J							
						4-Chlorobenzilate	CCAL %D	38.4%	<25%	ND(1.0) J							
						4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(2.6) J							
						4-Phenylenediamine	CCAL %D	37.2%	<25%	ND(1.0) J							
						Benzyl Alcohol	CCAL %D	35.8%	<25%	ND(1.0) J							
						Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.51) J							
						Hexachlorophene	ICAL RRF	0.029	>0.05	ND(1.0) J							
						Hexachloropropene	CCAL %D	75.4%	<25%	ND(0.51) J							
						Pentachlorobenzene	CCAL %D	33.2%	<25%	ND(0.51) J							
						Pronamide	CCAL %D	26.9%	<25%	ND(0.51) J							
												2,3,4,6-Tetrachlorophenol	CCAL %D	41.6%	<25%	ND(0.41) J	RAA13-F91
												2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(2.1) J	
												2-Nitroaniline	CCAL %D	28.3%	<25%	ND(2.1) J	
												4-Chlorobenzilate	CCAL %D	38.4%	<25%	ND(0.82) J	
						4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(2.1) J							
						4-Phenylenediamine	CCAL %D	37.2%	<25%	ND(0.82) J							
						Anthracene	Field Duplicate RPD (Soil)	52.0%	<50%	0.94 J							
						Benzo(a)anthracene	Field Duplicate RPD (Soil)	52.3%	<50%	2.4 J							
						Benzyl Alcohol	CCAL %D	35.8%	<25%	ND(0.82) J							
						Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.41) J							
						Hexachlorophene	ICAL RRF	0.029	>0.05	ND(0.82) J							
						Hexachloropropene	CCAL %D	75.4%	<25%	ND(0.41) J							
						Naphthalene	Field Duplicate RPD (Soil)	120.0%	<50%	0.52 J							
						Pentachlorobenzene	CCAL %D	33.2%	<25%	ND(0.41) J							
						Phenanthrene	Field Duplicate RPD (Soil)	66.7%	<50%	3.7 J							
						Pronamide	CCAL %D	26.9%	<25%	ND(0.41) J							

TABLE C-1
NEWELL STREET AREA II PDI SAMPLES

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 (cont'd)																	
3F0P100	RAA13-F91 (1 - 3)	6/4/2003	Soil	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	41.6%	<25%	ND(0.40) J							
						2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(2.0) J							
						2-Nitroaniline	CCAL %D	28.3%	<25%	ND(2.0) J							
						4-Chlorobenzilate	CCAL %D	38.4%	<25%	ND(0.80) J							
						4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(2.0) J							
						4-Phenylenediamine	CCAL %D	37.2%	<25%	ND(0.80) J							
						Anthracene	Field Duplicate RPD (Soil)	52.0%	<50%	1.6 J							
						Benzo(a)anthracene	Field Duplicate RPD (Soil)	52.3%	<50%	4.1 J							
						Benzyl Alcohol	CCAL %D	35.8%	<25%	ND(0.80) J							
						Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.40) J							
						Hexachlorophene	ICAL RRF	0.029	>0.05	ND(0.80) J							
						Hexachloropropene	CCAL %D	75.4%	<25%	ND(0.40) J							
						Naphthalene	Field Duplicate RPD (Soil)	120.0%	<50%	0.13 J							
						Pentachlorobenzene	CCAL %D	33.2%	<25%	ND(0.40) J							
						Phenanthrene	Field Duplicate RPD (Soil)	66.7%	<50%	7.4 J							
						Pronamide	CCAL %D	26.9%	<25%	ND(0.40) J							
						3F0P100	RAA13-F91 (3 - 6)	6/4/2003	Soil	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	41.6%	<25%	ND(0.40) J	
2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(2.0) J													
2-Nitroaniline	CCAL %D	28.3%	<25%	ND(2.0) J													
4-Chlorobenzilate	CCAL %D	38.4%	<25%	ND(0.79) J													
4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(2.0) J													
4-Phenylenediamine	CCAL %D	37.2%	<25%	ND(0.79) J													
Benzyl Alcohol	CCAL %D	35.8%	<25%	ND(0.79) J													
Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.40) J													
Hexachlorophene	ICAL RRF	0.029	>0.05	ND(0.79) J													
Hexachloropropene	CCAL %D	75.4%	<25%	ND(0.40) J													
Pentachlorobenzene	CCAL %D	33.2%	<25%	ND(0.40) J													
Pronamide	CCAL %D	26.9%	<25%	ND(0.40) J													
3F0P100	RAA13-G92 (1 - 3)	6/4/2003	Soil	Tier II	Yes							2,3,4,6-Tetrachlorophenol	CCAL %D	41.6%	<25%	ND(0.42) J	
												2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(2.1) J	
												2-Nitroaniline	CCAL %D	28.3%	<25%	ND(2.1) J	
												4-Chlorobenzilate	CCAL %D	38.4%	<25%	ND(0.85) J	
												4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(2.1) J	
						4-Phenylenediamine	CCAL %D	37.2%	<25%	ND(0.85) J							
						Benzyl Alcohol	CCAL %D	35.8%	<25%	ND(0.85) J							
						Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.42) J							
						Hexachlorophene	ICAL RRF	0.029	>0.05	ND(0.85) J							
						Hexachloropropene	CCAL %D	75.4%	<25%	ND(0.42) J							
						Pentachlorobenzene	CCAL %D	33.2%	<25%	0.25 J							
						Pronamide	CCAL %D	26.9%	<25%	ND(0.42) J							
						3F0P100	RAA13-G92 (10 - 15)	6/4/2003	Soil	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	41.6%	<25%	ND(0.49) J	
												2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(2.5) J	
												2-Nitroaniline	CCAL %D	28.3%	<25%	ND(2.5) J	
												4-Chlorobenzilate	CCAL %D	38.4%	<25%	ND(0.98) J	
												4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(2.5) J	
4-Phenylenediamine	CCAL %D	37.2%	<25%	ND(0.98) J													
Benzyl Alcohol	CCAL %D	35.8%	<25%	ND(0.98) J													
Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.49) J													
Hexachlorophene	ICAL RRF	0.029	>0.05	ND(0.98) J													
Hexachloropropene	CCAL %D	75.4%	<25%	ND(0.49) J													
Pentachlorobenzene	CCAL %D	33.2%	<25%	ND(0.49) J													
Pronamide	CCAL %D	26.9%	<25%	ND(0.49) J													

TABLE C-1
NEWELL STREET AREA II PDI SAMPLES

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 (cont'd)											
3F0P100	RAA13-Z88 (3 - 6)	6/4/2003	Soil	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	41.6%	<25%	ND(0.42) J	
						2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(2.1) J	
						2-Nitroaniline	CCAL %D	28.3%	<25%	ND(2.1) J	
						4-Chlorobenzilate	CCAL %D	38.4%	<25%	ND(0.83) J	
						4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(2.1) J	
						4-Phenylenediamine	CCAL %D	37.2%	<25%	ND(0.83) J	
						Benzyl Alcohol	CCAL %D	35.8%	<25%	ND(0.83) J	
						Hexachlorocyclopentadiene	ICAL %RSD	34.7%	<30%	ND(0.42) J	
						Hexachlorophene	ICAL RRF	0.029	>0.05	ND(0.83) J	
						Hexachloropropene	CCAL %D	75.4%	<25%	ND(0.42) J	
						Pentachlorobenzene	CCAL %D	33.2%	<25%	ND(0.42) J	
						Pronamide	CCAL %D	26.9%	<25%	ND(0.42) J	
						3F0P100	RB-060403-1 (0 - 0)	6/4/2003	Water	Tier II	Yes
2,4-Dinitrophenol	ICAL %RSD	31.5%	<30%	ND(0.050) J							
2-Nitroaniline	CCAL %D	28.3%	<25%	ND(0.050) J							
4-Chlorobenzilate	CCAL %D	38.4%	<25%	ND(0.010) J							
4-Nitrophenol	ICAL %RSD	42.3%	<30%	ND(0.050) J							
4-Phenylenediamine	CCAL %D	37.2%	<25%	ND(0.010) J							
Benzyl Alcohol	CCAL %D	35.8%	<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	75.4%	<25%	ND(0.010) J							
Pentachlorobenzene	CCAL %D	33.2%	<25%	ND(0.010) J							
Pronamide	CCAL %D	26.9%	<25%	ND(0.010) J							
PCDDs/PCDFs											
3F0P100	RAA13-C88 (1 - 3)	6/4/2003	Soil	Tier II	No						
3F0P100	RAA13-DUP-1 (1 - 3)	6/4/2003	Soil	Tier II	No						RAA13-F91
3F0P100	RAA13-F91 (1 - 3)	6/4/2003	Soil	Tier II	No						
3F0P100	RAA13-F91 (3 - 6)	6/4/2003	Soil	Tier II	No						
3F0P100	RAA13-G92 (1 - 3)	6/4/2003	Soil	Tier II	No						
3F0P100	RAA13-Z88 (3 - 6)	6/4/2003	Soil	Tier II	No						
Sulfide and Cyanide											
3F0P100	RAA13-C88 (1 - 3)	6/4/2003	Soil	Tier II	Yes	Sulfide	Field Duplicate RPD (Soil)	61.8%	<50%	46.0 J	
3F0P100	RAA13-C88 (6 - 9)	6/4/2003	Soil	Tier II	Yes	Sulfide	Field Duplicate RPD (Soil)	61.8%	<50%	17.0 J	
3F0P100	RAA13-DUP-1 (1 - 3)	6/4/2003	Soil	Tier II	Yes	Sulfide	Field Duplicate RPD (Soil)	61.8%	<50%	36.0 J	RAA13-F91
3F0P100	RAA13-F91 (1 - 3)	6/4/2003	Soil	Tier II	Yes	Sulfide	Field Duplicate RPD (Soil)	61.8%	<50%	19.0 J	
3F0P100	RAA13-F91 (3 - 6)	6/4/2003	Soil	Tier II	Yes	Sulfide	Field Duplicate RPD (Soil)	61.8%	<50%	82.0 J	
3F0P100	RAA13-G92 (1 - 3)	6/4/2003	Soil	Tier II	Yes	Sulfide	Field Duplicate RPD (Soil)	61.8%	<50%	10.0 J	
3F0P100	RAA13-G92 (10 - 15)	6/4/2003	Soil	Tier II	Yes	Sulfide	Field Duplicate RPD (Soil)	61.8%	<50%	59.0 J	
3F0P100	RAA13-Z88 (3 - 6)	6/4/2003	Soil	Tier II	Yes	Sulfide	Field Duplicate RPD (Soil)	61.8%	<50%	16.0 J	
3F0P100	RB-060403-1 (0 - 0)	6/4/2003	Water	Tier II	No						