GE
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USA

Transmitted via Overnight Courier

July 27, 2007

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

Re: GE-Pittsfield/Housatonic River Site
Hill 78 Area–Remainder (GECD160)
Third Supplemental Data Letter

Dear Mr. Hull:

On March 20, 2007, the General Electric Company (GE) submitted to the U.S. Environmental Protection Agency (EPA) a Second Supplemental Data Letter (Second Supplemental Data Letter) summarizing the results of additional field activities conducted at the Hill 78 Area-Remainder Removal Action Area (RAA) in accordance with the Consent Decree (CD) for the GE-Pittsfield/Housatonic River Site and the accompanying *Statement of Work for Removal Actions Outside the River* (SOW). Those field activities had initially been proposed in a September 18, 2006 Supplemental Data Letter (Supplemental Data Letter), which summarized the results of field activities completed in the summer of 2006 and proposed additional soil sampling to address newly-identified data needs for Hill 78 Area-Remainder. GE's Supplemental Data Letter was, in turn, conditionally approved by EPA in a letter dated January 5, 2007. The Second Supplemental Data Letter provided the results of soil sampling proposed in the Supplemental Data Letter, as modified by EPA's January 5, 2007 conditional approval letter.

EPA's January 5, 2007 letter also contained a condition requiring GE to submit a sampling plan to meet the sampling requirements of the CD along the northern boundary of the RAA. In response, GE submitted its GE's February 16, 2007 Supplemental Sampling Proposal (Supplemental Sampling Proposal). EPA conditionally approved the Supplemental Sampling Proposal and the Second Supplemental Data Letter in a letter dated April 26, 2007. GE performed supplemental soil sampling activities between June 5 and 7, 2007, including certain additional sampling activities required by EPA's April 26, 2007 letter. Following preliminary review of the initial analytical results from those supplemental investigations, GE proposed to collect soil samples from one additional sample location to further assess total polychlorinated biphenyl (PCB) concentrations near one location where the detected PCB concentrations were significantly higher than in other soil borings installed in the area. That proposal was documented in a letter to EPA dated June 26, 2007 titled Hill 78 Area-Remainder Proposed Additional Sampling Location. EPA provided conditional approval of the additional sampling proposal in a letter dated June 28, 2007 and the sampling was conducted on July 5, 2007. This letter summarizes the results of the recent supplemental soil investigations conducted at Hill 78 Area-Remainder and also provides additional information requested by EPA in its April 26, 2007 letter.

Condition No. 4 of EPA's April 26, 2007 letter required GE to modify certain utility corridors presented on Figure 1 of the Second Supplemental Data Letter. The modifications incorporated onto a revised Figure 1 (attached) include the following: (1) utility corridors along the north side of Tyler Street Extension and storm and sanitary sewers originating from the border of the Allendale School property; (2) the utility corridor in the vicinity of grid transect N7; (3) catch basins which are shown on the drawings to the south of sampling location RAA9-X3S are connected to the catch basin which is shown on the drawings slightly east of sampling location H78B-22; and (4) the catch basin to the north of RAA9-X3 is connected to the catch basin slightly northeast of sampling location RAA9-K18, and the drainage line then travels in a general northeasterly direction (Reference Figure 2-2; MCP Phase II/RCRA Facility Investigation Report for Hill 78 Area/UPESA Area 2, August, 1997).

I. Summary of Third Supplemental Pre-Design Investigation Activities

The supplemental pre-design investigations described in the Supplemental Sampling Proposal, as approved by EPA, were performed between June 5 and 7, 2007 and additional sampling was conducted at one location on July 5, 2007. Sampling activities were conducted in accordance with GE's approved *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP). Analytical services were provided by SGS Environmental Services, Inc. of Wilmington, North Carolina.

Overall, GE collected soil samples from 12 locations during the recent supplemental pre-design investigations. A total of 30 soil samples were analyzed for PCBs and 11 soil samples were analyzed for various other constituents listed in Appendix IX of 40 CFR Part 264 (excluding pesticides and herbicides), plus three additional constituents -- benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (hereafter referred to as Appendix IX+3). The specific sample locations, depths, and analyses are summarized on the attached Table 1 (for PCB analyses) and Table 2 (for Appendix IX+3 analyses). The samples locations are illustrated on Figure 1 and the soil boring logs are provided as Attachment A to this letter.

All of the analytical data collected during this supplemental pre-design investigation have undergone data validation in accordance with Section 7.5 of the FSP/QAPP. The results of this data validation are presented as Attachment B to this letter report. As discussed in that report, all of the soil analytical results were found to be usable. A single semi-volatile organic compound (nitrobenzene) result was rejected during validation of the analytical data from the equipment rinse blank sample due to laboratory control sample/laboratory control sample duplicate recovery deviations. Thus, the third supplemental pre-design dataset meets the data quality objectives set forth in the PDI Work Plan and the FSP/QAPP.

II. Third Supplemental Preliminary Data Investigation Results

The analytical results for PCBs obtained during the third supplemental preliminary design investigation (PDI) are presented in Table 1. Historical data is also provided for soil borings OPCA-1 and DRA-SB-8, which will be utilized to represent sampling grid coordinate C11, per Condition No. 3c of EPA's April 26, 2007 letter. All of these data will be incorporated into the evaluations to be performed in the Conceptual Removal Design/Removal Action Work Plan for the Hill 78 Area-Remainder Removal Action (Conceptual RD/RA Work Plan) to be submitted to EPA, as discussed below. Based on the data collected, GE does not believe that any additional data collection is necessary. With regard to the samples near the outer boundary of the RAA, as shown in Table 1, no soil sample results greater than the MCP Reportable Concentration of 2 ppm were

observed in the 0- to 1- foot depth interval. At greater depths, results above the 2 ppm level were obtained at locations RAA9-B11 (2.9 ppm at the 6- to 15-foot depth) RAA9-A13 (40 ppm at the 6- to 15-foot depth), and RAA9-A13N (150 ppm at the 1- to 6-foot depth).

The analytical results for Appendix IX+3 constituents are presented in Table 2. Historical data for soil sample OPCA-1 is also included in that table, as that location will be utilized to represent location C11, as discussed above. Overall, three VOCs, 22 SVOCs, and 17 inorganic constituents were detected in one or more soil sample analyzed during the recent supplemental investigations. In addition, one or more individual PCDD/PCDF compounds were detected all 11 soil samples analyzed during this supplemental investigation. Total Toxicity Equivalency Quotients (TEQs) were calculated for the PCDD/PCDF compounds using the Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO). In calculating those TEQs, the concentrations of individual PCDD/PCDF compounds that were not detected were represented as one-half of the analytical detection limit for those compounds. The non-PCB Appendix IX+3 constituents detected were generally present at low concentrations and, based on preliminary evaluations performed by GE, GE does not anticipate conducting any non-PCB-based removals in the areas of the samples recently collected.

III. Future Activities

GE submitted a *Supplemental Sampling Plan for Re-routing of Sanitary and Storm Sewer Pipelines* to EPA on February 19, 2007. That plan, which proposed sampling activities to further characterize the soils along the alignment of sanitary and storm sewers to be re-routed across Hill 78 Area-Remainder, was conditionally approved by EPA in a letter to GE dated April 5, 2007 and the approved sampling was completed in May 2007. GE submitted a *Supplemental Sampling and Engineering Design Report for Re-routing of Sanitary and Storm Sewer Pipelines* on July 3, 2007. That report included: (a) detailed design plans for the proposed pipelines; (b) a summary of the soil sampling data (including supporting data tables, calculations, figures, and a data validation report) from the supplemental investigations conducted along the proposed pipeline routes; and (c) a soil handling plan for soils to be excavated during the installation of the new pipelines. The soil sampling analytical results contained in that report will be incorporated, as applicable, into the evaluations to be presented in the Conceptual RD/RA Work Plan for Hill 78 Area-Remainder.

As noted above, based on the results of the third supplemental pre-design investigations, no additional soil sampling activities appear to be necessary to complete the spatial characterization of Hill 78 Area-Remainder and no new data needs were identified based on the results of the third supplemental pre-design investigations described herein or based on the soil sampling results presented in the *Supplemental Sampling and Engineering Design Report for Re-routing of Sanitary and Storm Sewer Pipelines*.

GE proposes to submit the Conceptual RD/RA Work Plan within a timeframe consistent with that previously proposed in GE's September 2005 *Pre-Design Investigation Report for Hill 78 Area-Remainder*, i.e., within 6 months from receipt of EPA approval of this data letter, assuming that no significant data needs are identified by GE while performing the detailed RD/RA evaluations. To address the possibility that additional data may be needed based on GE's evaluations, GE proposes to submit a letter to EPA within 4 months of approval of this data letter advising EPA whether GE believes that any additional soil sampling is necessary for purposes of RD/RA evaluations and, if such sampling is necessary, making a proposal for that sampling. If additional sampling is necessary, the letter will propose a revised schedule for submittal of the Conceptual RD/RA Work

Plan, if appropriate. If GE has not identified any such data needs, the letter will advise EPA of that fact. If any other factors cause a delay in the schedule proposed above, GE will notify EPA and propose for EPA approval a revised schedule for submitting the Conceptual RD/RA Work Plan. As described in previous submissions, GE will execute an ERE for its parcels within Hill 78 Area-Remainder and, GE has an agreement with the owner of Parcel K11-7-1 that the owner will execute an ERE with regard to that parcel as well. Therefore, the Conceptual RD/RA Work Plan will be developed on the understanding that all of Hill 78 Area-Remainder will be subject to EREs.

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

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

Please call Andrew Silfer or me if you have any questions about this data letter or the upcoming activities at the Hill 78 Area-Remainder RAA.

Sincerely,

Richard W Gates/RAB

Richard W. Gates
Remediation Project Manager

Attachments

cc: Tim Conway, EPA *
Dean Tagliaferro, EPA
Holly Inglis, EPA (CD-ROM)
Rose Howell, EPA (CD-ROM)
Robert Cianciarulo, EPA*
K.C. Mitkevicius, USACE (CD-ROM)
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Pittsfield Commissioner of Public Health
Thomas Hickey, Director, PEDA
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Michael Carroll, GE *
Rod McLaren, GE *
Andrew Silfer, GE (CD-ROM)
James Nuss, ARCADIS BBL
James Bieke, Goodwin Procter
Tim Eglin, Purenergy I, LLC
Public Information Repositories
GE Internal Repositories

** (Copy of letter only)*

Tables

Table 1
Soil Analytical Results - PCBs

Third Supplemental Data Letter
Hill 78 Area-Remainder
General Electric Company - Pittsfield, Massachusetts
(Results are presented in dry weight parts per million, ppm)

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA9-A13	0-1	6/7/2007	ND(0.039)	ND(0.039)	0.028 J	0.028 J
	1-6	6/7/2007	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	6-15	6/7/2007	ND(3.7)	ND(3.7)	40	40
RAA9-A13N	0-1	7/5/2007	ND(0.044)	ND(0.044)	0.073	0.073
	1-6	7/5/2007	ND(17)	ND(17)	150	150
	6-15	7/5/2007	ND(0.035)	ND(0.035)	0.016 J	0.016 J
RAA9-A14	0-1	6/6/2007	ND(0.036)	ND(0.036)	0.010 J	0.010 J
	1-6	6/6/2007	ND(0.035) [ND(0.035)]	ND(0.035) [ND(0.035)]	0.0046 J [0.0097 J]	0.0046 J [0.0097 J]
	6-15	6/6/2007	ND(0.38)	ND(0.38)	0.59	0.59
RAA9-B11	0-1	6/6/2007	ND(0.034)	0.014 J	0.033 J	0.047 J
	1-6	6/6/2007	ND(0.034)	ND(0.034)	0.0088 J	0.0088 J
	6-15	6/6/2007	ND(0.34)	ND(0.34)	2.9	2.9
RAA9-C9	0-1	6/5/2007	ND(0.037)	ND(0.037)	0.055	0.055
	1-6	6/5/2007	ND(0.033)	ND(0.033)	0.018 J	0.018 J
	6-15	6/5/2007	ND(0.038)	ND(0.038)	0.71	0.71
RAA9-D7	0-1	6/7/2007	ND(0.037)	ND(0.037)	0.056	0.056
	1-6	6/7/2007	ND(0.035)	ND(0.035)	0.015 J	0.015 J
	6-15	6/7/2007	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA9-D9	0-1	6/7/2007	ND(0.044)	0.13	0.65	0.78
	1-6	6/7/2007	ND(0.037)	ND(0.037)	0.048	0.048
	6-15	6/7/2007	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA9-E5	0-1	6/5/2007	ND(0.034)	ND(0.034)	0.026 J	0.026 J
	1-6	6/5/2007	ND(0.035) [ND(0.033)]	ND(0.035) [ND(0.033)]	ND(0.035) [ND(0.033)]	ND(0.035) [ND(0.033)]
	6-15	6/5/2007	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
RAA9-F3	0-1	6/5/2007	ND(0.033)	0.14	0.041	0.181
	1-6	6/5/2007	ND(0.035)	0.016 J	0.0078 J	0.0238 J
	6-15	6/5/2007	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA9-I6	0-1	6/7/2007	ND(0.034)	0.32	0.30	0.62
	1-6	6/7/2007	ND(0.34)	2.2	0.38	2.58
	6-15	6/7/2007	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
Historical Data Representing Grid Coordinate C11						
OPCA-1	0-1	5/26/1999	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)
	1-6	5/26/1999	ND(0.039)	ND(0.039)	0.093	0.093
	6-15	5/26/1999	ND(0.038)	ND(0.038)	0.045	0.045
OPCA-SW-DRA-SB-8	0-1	5/30/2000	ND(0.042)	ND(0.042)	0.38	0.38

Notes:
1. Samples were collected by ARCADIS BBL, and submitted to SGS Environmental Services, Inc. for analysis of PCBs.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS BBL (approved March 15, 2007 and re-submitted March 30, 2007).
3. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.
4. Field duplicate sample results are presented in brackets.
5. Historical data from samples OPCA-1 and OPCA-SW-DRA-SB-8 previously presented in Pre-Design Investigation Report for Hill 78-Remainder, September 2005.

Data Qualifiers:

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

Table 2
Soil Analytical Results - Appendix IX+3 Constituents

Third Supplemental Data Letter
Hill 78 Area-Remainder
General Electric Company - Pittsfield, Massachusetts
(Results are presented in dry weight parts per million, ppm)

Parameter / Sample ID:	RAA9-A13	RAA9-A13	RAA9-A14	RAA9-B11	RAA9-B11
Sample Depth(Feet):	6-15	8-10	0-1	1-3	1-6
Date Collected:	06/07/07	06/07/07	06/06/07	06/06/07	06/06/07
Volatile Organics					
2-Butanone	NA	0.0040 J	0.0047 J	ND(0.0037)	NA
Acetone	NA	0.016	0.032 J	0.0042 J	NA
Methylene Chloride	NA	ND(0.0051)	0.033	0.012	NA
Semivolatile Organics					
1,2,4-Trichlorobenzene	0.13 J	NA	ND(0.36)	NA	ND(0.34)
1,3-Dichlorobenzene	0.045 J	NA	ND(0.36)	NA	ND(0.34)
1,4-Dichlorobenzene	0.30 J	NA	ND(0.36)	NA	ND(0.34)
2-Methylnaphthalene	ND(0.37)	NA	ND(0.36)	NA	ND(0.34)
Acenaphthene	ND(0.37)	NA	ND(0.36)	NA	ND(0.34)
Acenaphthylene	ND(0.37)	NA	ND(0.36)	NA	ND(0.34)
Anthracene	ND(0.37)	NA	ND(0.36)	NA	ND(0.34)
Benzidine	ND(0.75) J	NA	ND(0.71) J	NA	ND(0.68) J
Benzo(a)anthracene	ND(0.37)	NA	ND(0.36)	NA	ND(0.34)
Benzo(a)pyrene	0.28 J	NA	ND(0.36)	NA	ND(0.34)
Benzo(b)fluoranthene	0.11 J	NA	ND(0.36)	NA	ND(0.34)
Benzo(g,h,i)perylene	ND(0.37)	NA	ND(0.36)	NA	ND(0.34)
Benzo(k)fluoranthene	ND(0.37) J	NA	ND(0.36) J	NA	ND(0.34) J
bis(2-Ethylhexyl)phthalate	0.079 J	NA	0.057 J	NA	ND(0.34)
Chrysene	ND(0.37)	NA	ND(0.36)	NA	ND(0.34)
Dibenzo(a,h)anthracene	ND(0.37) J	NA	ND(0.36) J	NA	ND(0.34) J
Dibenzofuran	ND(0.37)	NA	ND(0.36)	NA	ND(0.34)
Fluoranthene	0.064 J	NA	ND(0.36)	NA	ND(0.34)
Fluorene	ND(0.37)	NA	ND(0.36)	NA	ND(0.34)
Indeno(1,2,3-cd)pyrene	ND(0.37) J	NA	ND(0.36)	NA	ND(0.34)
Naphthalene	ND(0.37)	NA	ND(0.36)	NA	ND(0.34)
Phenanthrene	0.049 J	NA	ND(0.36)	NA	ND(0.34)
Pyrene	ND(0.37)	NA	ND(0.36)	NA	ND(0.34)
Furans					
2,3,7,8-TCDF	0.0000065 Y	NA	0.00000066 J	NA	0.00000046 J
TCDFs (total)	0.000066	NA	0.0000040	NA	0.0000011
1,2,3,7,8-PeCDF	0.0000045 J	NA	ND(0.00000058)	NA	ND(0.00000055)
2,3,4,7,8-PeCDF	0.000019	NA	0.00000069 J	NA	ND(0.00000055)
PeCDFs (total)	0.00028	NA	0.0000062	NA	0.0000027 J
1,2,3,4,7,8-HxCDF	0.000048	NA	0.0000017 J	NA	0.0000018 J
1,2,3,6,7,8-HxCDF	0.000014	NA	ND(0.00000062) X	NA	ND(0.00000055)
1,2,3,7,8,9-HxCDF	0.0000057	NA	ND(0.00000058)	NA	ND(0.00000055)
2,3,4,6,7,8-HxCDF	0.000036	NA	ND(0.00000058)	NA	ND(0.00000055)
HxCDFs (total)	0.00048	NA	0.0000065	NA	0.0000062
1,2,3,4,6,7,8-HpCDF	0.000091	NA	0.0000051 J	NA	0.0000054 J
1,2,3,4,7,8,9-HpCDF	0.000032	NA	ND(0.00000058)	NA	ND(0.00000055)
HpCDFs (total)	0.00024	NA	0.0000064	NA	0.0000065
OCDF	0.00020	NA	0.0000046 J	NA	0.0000040 J
Dioxins					
2,3,7,8-TCDD	ND(0.00000030) X	NA	ND(0.00000040)	NA	ND(0.00000035)
TCDDs (total)	0.0000069	NA	ND(0.00000040)	NA	ND(0.00000035)
1,2,3,7,8-PeCDD	0.0000021 J	NA	ND(0.00000058)	NA	ND(0.00000055)
PeCDDs (total)	0.000016	NA	ND(0.00000058)	NA	ND(0.00000055)
1,2,3,4,7,8-HxCDD	0.0000013 J	NA	ND(0.00000058)	NA	ND(0.00000055)
1,2,3,6,7,8-HxCDD	0.0000025 J	NA	ND(0.00000058)	NA	ND(0.00000055)
1,2,3,7,8,9-HxCDD	0.0000042 J	NA	ND(0.00000058)	NA	ND(0.00000055)
HxCDDs (total)	0.000034	NA	0.00000072 J	NA	0.00000074 J
1,2,3,4,6,7,8-HpCDD	0.000011	NA	0.0000022 J	NA	0.00000077 J
HpCDDs (total)	0.000024	NA	0.0000045 J	NA	0.0000018 J
OCDD	0.000040	NA	0.000014	NA	0.0000065 J
Total TEQs (WHO TEFs)	0.000025	NA	0.0000013	NA	0.0000011

Table 2
Soil Analytical Results - Appendix IX+3 Constituents

Third Supplemental Data Letter
Hill 78 Area-Remainder
General Electric Company - Pittsfield, Massachusetts
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	RAA9-A13 6-15 06/07/07	RAA9-A13 8-10 06/07/07	RAA9-A14 0-1 06/06/07	RAA9-B11 1-3 06/06/07	RAA9-B11 1-6 06/06/07
Inorganics						
Arsenic		4.85	NA	7.07	NA	8.57
Barium		26.2 J	NA	37.4	NA	35.0
Beryllium		ND(1.19) J	NA	ND(1.15) J	NA	ND(0.934) J
Cadmium		ND(1.19)	NA	ND(1.15) J	NA	1.06 J
Chromium		7.71	NA	12.0	NA	11.1
Cobalt		5.93	NA	9.79	NA	10.7
Copper		12.3	NA	19.4	NA	26.6
Lead		7.88	NA	18.9	NA	14.6
Mercury		0.0107 B	NA	0.0171 B	NA	0.0155 B
Nickel		11.5	NA	19.2	NA	19.9
Thallium		ND(1.19)	NA	1.25 J	NA	ND(0.934) J
Tin		4.43	NA	ND(1.15)	NA	0.789 B
Vanadium		6.16	NA	12.5	NA	10.4
Zinc		36.9	NA	62.5 J	NA	65.2 J

Table 2
Soil Analytical Results - Appendix IX+3 Constituents

Third Supplemental Data Letter
Hill 78 Area-Remainder
General Electric Company - Pittsfield, Massachusetts
(Results are presented in dry weight parts per million, ppm)

Parameter / Sample ID:	RAA9-C9	RAA9-D7	RAA9-D7	RAA9-D9	RAA9-D9
Sample Depth(Feet):	0-1	6-15	10-12	1-6	4-6
Date Collected:	06/05/07	06/07/07	06/07/07	06/07/07	06/07/07
Volatile Organics					
2-Butanone	ND(0.0062) J	NA	0.0076	NA	ND(0.0045)
Acetone	0.026 J	NA	0.035	NA	0.010
Methylene Chloride	0.011 J	NA	ND(0.0053)	NA	ND(0.0045)
Semivolatile Organics					
1,2,4-Trichlorobenzene	ND(0.39)	ND(0.34)	NA	ND(0.37)	NA
1,3-Dichlorobenzene	ND(0.39)	ND(0.34)	NA	ND(0.37)	NA
1,4-Dichlorobenzene	ND(0.39)	ND(0.34)	NA	ND(0.37)	NA
2-Methylnaphthalene	ND(0.39)	ND(0.34)	NA	ND(0.37)	NA
Acenaphthene	ND(0.39)	ND(0.34)	NA	ND(0.37)	NA
Acenaphthylene	ND(0.39)	ND(0.34)	NA	ND(0.37)	NA
Anthracene	ND(0.39)	ND(0.34)	NA	ND(0.37)	NA
Benzidine	ND(0.78) J	ND(0.68) J	NA	ND(0.73) J	NA
Benzo(a)anthracene	ND(0.39)	ND(0.34)	NA	ND(0.37)	NA
Benzo(a)pyrene	0.27 J	ND(0.34)	NA	ND(0.37)	NA
Benzo(b)fluoranthene	0.14 J	ND(0.34)	NA	ND(0.37)	NA
Benzo(g,h,i)perylene	ND(0.39)	ND(0.34)	NA	ND(0.37)	NA
Benzo(k)fluoranthene	ND(0.39)	ND(0.34) J	NA	ND(0.37) J	NA
bis(2-Ethylhexyl)phthalate	0.20 J	0.096 J	NA	0.055 J	NA
Chrysene	0.043 J	ND(0.34)	NA	ND(0.37)	NA
Dibenzo(a,h)anthracene	ND(0.39)	ND(0.34) J	NA	ND(0.37) J	NA
Dibenzofuran	ND(0.39)	ND(0.34)	NA	ND(0.37)	NA
Fluoranthene	0.075 J	ND(0.34)	NA	ND(0.37)	NA
Fluorene	ND(0.39)	ND(0.34)	NA	ND(0.37)	NA
Indeno(1,2,3-cd)pyrene	ND(0.39)	ND(0.34) J	NA	ND(0.37) J	NA
Naphthalene	ND(0.39)	ND(0.34)	NA	ND(0.37)	NA
Phenanthrene	ND(0.39)	ND(0.34)	NA	ND(0.37)	NA
Pyrene	ND(0.39)	ND(0.34)	NA	ND(0.37)	NA
Furans					
2,3,7,8-TCDF	0.0000011 J	0.00000018 J	NA	0.00000075 J	NA
TCDFs (total)	0.000014	0.00000018 J	NA	0.0000040	NA
1,2,3,7,8-PeCDF	0.0000013 J	ND(0.00000051)	NA	ND(0.00000050)	NA
2,3,4,7,8-PeCDF	0.0000039 J	ND(0.00000051)	NA	0.00000070 J	NA
PeCDFs (total)	0.000035	0.00000062 J	NA	0.000012	NA
1,2,3,4,7,8-HxCDF	0.000033	0.0000061	NA	0.00000054 J	NA
1,2,3,6,7,8-HxCDF	0.0000070	0.0000012 J	NA	ND(0.00000050)	NA
1,2,3,7,8,9-HxCDF	0.00000058 J	ND(0.00000051)	NA	ND(0.00000050)	NA
2,3,4,6,7,8-HxCDF	0.0000026 J	ND(0.00000051)	NA	0.00000068 J	NA
HxCDFs (total)	0.000079	0.000010	NA	0.0000095	NA
1,2,3,4,6,7,8-HpCDF	0.00012	0.000024	NA	0.0000027 J	NA
1,2,3,4,7,8,9-HpCDF	0.0000026 J	0.00000072 J	NA	ND(0.00000050)	NA
HpCDFs (total)	0.00013	0.000028	NA	0.0000055	NA
OCDF	0.00019	0.000021	NA	0.0000050 J	NA
Dioxins					
2,3,7,8-TCDD	ND(0.00000051)	ND(0.00000025)	NA	ND(0.00000034)	NA
TCDDs (total)	0.00000052 J	ND(0.00000025)	NA	ND(0.00000034)	NA
1,2,3,7,8-PeCDD	ND(0.00000055)	ND(0.00000051)	NA	ND(0.00000050)	NA
PeCDDs (total)	0.0000023 J	ND(0.00000051)	NA	ND(0.00000050)	NA
1,2,3,4,7,8-HxCDD	ND(0.00000055)	ND(0.00000051)	NA	ND(0.00000050)	NA
1,2,3,6,7,8-HxCDD	ND(0.00000055)	ND(0.00000051)	NA	ND(0.00000050)	NA
1,2,3,7,8,9-HxCDD	ND(0.00000055)	ND(0.00000051)	NA	ND(0.00000050)	NA
HxCDDs (total)	0.0000036 J	ND(0.00000051)	NA	0.0000022 J	NA
1,2,3,4,6,7,8-HpCDD	0.0000052 J	ND(0.00000051)	NA	0.0000051	NA
HpCDDs (total)	0.000012	ND(0.00000051)	NA	0.000012	NA
OCDD	0.000041	0.0000013 J	NA	0.000048	NA
Total TEQs (WHO TEFs)	0.0000084	0.0000016	NA	0.0000012	NA

Table 2
Soil Analytical Results - Appendix IX+3 Constituents

Third Supplemental Data Letter
Hill 78 Area-Remainder
General Electric Company - Pittsfield, Massachusetts
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	RAA9-C9 0-1 06/05/07	RAA9-D7 6-15 06/07/07	RAA9-D7 10-12 06/07/07	RAA9-D9 1-6 06/07/07	RAA9-D9 4-6 06/07/07
Inorganics						
Arsenic		12.3	7.93	NA	2.74	NA
Barium		48.7	20.5 J	NA	16.9 J	NA
Beryllium		ND(1.09) J	ND(1.03) J	NA	ND(1.21) J	NA
Cadmium		ND(1.09)	ND(1.03)	NA	ND(1.21)	NA
Chromium		14.6	10.2	NA	5.22	NA
Cobalt		14.7	8.28	NA	2.52	NA
Copper		31.9	25.4	NA	8.88	NA
Lead		28.9	8.41	NA	6.03	NA
Mercury		0.0264	0.0188 B	NA	0.0116 B	NA
Nickel		25.8	16.9	NA	7.96	NA
Thallium		ND(1.09) J	ND(1.03)	NA	ND(1.21)	NA
Tin		ND(1.09) J	ND(1.03) J	NA	ND(1.21) J	NA
Vanadium		14.5	9.47	NA	5.88 B	NA
Zinc		84.7	51.1	NA	25.3	NA

Table 2
Soil Analytical Results - Appendix IX+3 Constituents

Third Supplemental Data Letter
Hill 78 Area-Remainder
General Electric Company - Pittsfield, Massachusetts
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	RAA9-E5 1-6 06/05/07	RAA9-E5 4-6 06/05/07	RAA9-F3 0-1 06/05/07
Volatile Organics			
2-Butanone	NA	ND(0.0056) J [ND(0.0053) J]	0.0060 J
Acetone	NA	ND(0.0056) J [ND(0.0053) J]	0.038 J
Methylene Chloride	NA	ND(0.0056) J [0.020 J]	ND(0.0053) J
Semivolatile Organics			
1,2,4-Trichlorobenzene	ND(0.34) [ND(0.34)]	NA	ND(0.33)
1,3-Dichlorobenzene	ND(0.34) [ND(0.34)]	NA	ND(0.33)
1,4-Dichlorobenzene	ND(0.34) [ND(0.34)]	NA	ND(0.33)
2-Methylnaphthalene	ND(0.34) [ND(0.34)]	NA	ND(0.33)
Acenaphthene	ND(0.34) [ND(0.34)]	NA	ND(0.33)
Acenaphthylene	ND(0.34) [ND(0.34)]	NA	ND(0.33)
Anthracene	ND(0.34) [ND(0.34)]	NA	ND(0.33)
Benzidine	ND(0.67) J [ND(0.68) J]	NA	ND(0.66) J
Benzo(a)anthracene	ND(0.34) [ND(0.34)]	NA	ND(0.33)
Benzo(a)pyrene	ND(0.34) [ND(0.34)]	NA	0.25 J
Benzo(b)fluoranthene	ND(0.34) [ND(0.34)]	NA	0.16 J
Benzo(g,h,i)perylene	ND(0.34) [ND(0.34)]	NA	ND(0.33)
Benzo(k)fluoranthene	ND(0.34) [ND(0.34)]	NA	ND(0.33)
bis(2-Ethylhexyl)phthalate	ND(0.34) [ND(0.34)]	NA	0.059 J
Chrysene	ND(0.34) [ND(0.34)]	NA	0.066 J
Dibenzo(a,h)anthracene	ND(0.34) [ND(0.34)]	NA	ND(0.33)
Dibenzofuran	ND(0.34) [ND(0.34)]	NA	ND(0.33)
Fluoranthene	ND(0.34) [ND(0.34)]	NA	0.12 J
Fluorene	ND(0.34) [ND(0.34)]	NA	ND(0.33)
Indeno(1,2,3-cd)pyrene	ND(0.34) [ND(0.34)]	NA	ND(0.33)
Naphthalene	ND(0.34) [ND(0.34)]	NA	ND(0.33)
Phenanthrene	ND(0.34) [ND(0.34)]	NA	0.056 J
Pyrene	ND(0.34) [ND(0.34)]	NA	0.11 J
Furans			
2,3,7,8-TCDF	ND(0.00000025) [ND(0.00000036)]	NA	0.0000016 Y
TCDFs (total)	0.00000026 J [ND(0.00000036)]	NA	0.0000090
1,2,3,7,8-PeCDF	ND(0.00000044) [ND(0.00000053)]	NA	0.00000072 J
2,3,4,7,8-PeCDF	ND(0.00000044) [ND(0.00000053)]	NA	0.0000013 J
PeCDFs (total)	ND(0.00000044) [ND(0.00000053)]	NA	0.000012
1,2,3,4,7,8-HxCDF	0.0000016 J [0.0000012 J]	NA	0.000014
1,2,3,6,7,8-HxCDF	ND(0.00000044) [ND(0.00000053)]	NA	0.0000031 J
1,2,3,7,8,9-HxCDF	ND(0.00000044) [ND(0.00000053)]	NA	ND(0.00000052)
2,3,4,6,7,8-HxCDF	ND(0.00000044) [ND(0.00000053)]	NA	0.0000012 J
HxCDFs (total)	0.0000024 J [0.0000017 J]	NA	0.000032
1,2,3,4,6,7,8-HpCDF	0.0000058 [0.0000040 J]	NA	0.000050
1,2,3,4,7,8,9-HpCDF	ND(0.00000044) [ND(0.00000053)]	NA	0.0000017 J
HpCDFs (total)	0.0000058 [0.0000040 J]	NA	0.000056
OCDF	0.0000064 J [0.0000033 J]	NA	0.000045
Dioxins			
2,3,7,8-TCDD	ND(0.00000056) [ND(0.00000067)]	NA	ND(0.00000040)
TCDDs (total)	ND(0.00000056) [ND(0.00000067)]	NA	ND(0.00000040)
1,2,3,7,8-PeCDD	ND(0.00000044) [ND(0.00000053)]	NA	ND(0.00000052)
PeCDDs (total)	ND(0.00000044) [ND(0.00000053)]	NA	ND(0.00000052)
1,2,3,4,7,8-HxCDD	ND(0.00000044) [ND(0.00000053)]	NA	ND(0.00000052)
1,2,3,6,7,8-HxCDD	ND(0.00000044) [ND(0.00000053)]	NA	ND(0.00000052)
1,2,3,7,8,9-HxCDD	ND(0.00000044) [ND(0.00000053)]	NA	ND(0.00000052)
HxCDDs (total)	ND(0.00000044) [ND(0.00000053)]	NA	0.00000087 J
1,2,3,4,6,7,8-HpCDD	ND(0.00000044) [ND(0.00000053)]	NA	0.0000040 J
HpCDDs (total)	ND(0.00000044) [ND(0.00000053)]	NA	0.0000085
OCDD	0.0000011 J [0.0000011 J]	NA	0.000028
Total TEQs (WHO TEFs)	0.00000099 [0.0000011]	NA	0.0000038

Table 2
Soil Analytical Results - Appendix IX+3 Constituents

Third Supplemental Data Letter
Hill 78 Area-Remainder
General Electric Company - Pittsfield, Massachusetts
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	RAA9-E5 1-6 06/05/07	RAA9-E5 4-6 06/05/07	RAA9-F3 0-1 06/05/07
Inorganics				
Arsenic		9.41 [8.04]	NA	8.44
Barium		38.0 [22.3]	NA	ND(1.11) J
Beryllium		ND(0.986) J [ND(1.13) J]	NA	ND(1.11) J
Cadmium		ND(0.986) [ND(1.13)]	NA	ND(1.11) J
Chromium		8.81 [7.72]	NA	12.3
Cobalt		13.6 [10.5]	NA	9.03
Copper		21.4 [20.2]	NA	23.3
Lead		10.0 [10.5]	NA	22.6
Mercury		0.00692 B [0.00680 B]	NA	0.0270
Nickel		18.2 [15.4]	NA	17.3
Thallium		ND(0.986) J [ND(1.13) J]	NA	ND(1.11) J
Tin		ND(0.986) J [ND(1.13) J]	NA	ND(1.11) J
Vanadium		7.19 [6.83]	NA	10.4
Zinc		56.7 [56.9]	NA	79.3

Table 2
Soil Analytical Results - Appendix IX+3 Constituents

Third Supplemental Data Letter
Hill 78 Area-Remainder
General Electric Company - Pittsfield, Massachusetts
(Results are presented in dry weight parts per million, ppm)

Sample ID: / Sample Depth(Feet): / Parameter / Date Collected:	RAA9-G2S 0-1 06/06/07	RAA9-I2 0-1 06/06/07	RAA9-I6 1-6 06/07/07	RAA9-I6 2-4 06/07/07	OPCA-1 0-1 05/26/99
Volatile Organics					
2-Butanone	0.0056	0.0041 J	NA	0.0078	ND(3.6)
Acetone	0.047 J	0.023 J	NA	0.043	ND(3.6)
Methylene Chloride	0.033	0.031	NA	ND(0.0050)	ND(0.18)
Semivolatile Organics					
1,2,4-Trichlorobenzene	ND(0.35)	ND(7.0)	ND(0.34)	NA	ND(0.42)
1,3-Dichlorobenzene	ND(0.35)	ND(7.0)	ND(0.34)	NA	ND(0.42)
1,4-Dichlorobenzene	ND(0.35)	ND(7.0)	ND(0.34)	NA	ND(0.42)
2-Methylnaphthalene	ND(0.35)	3.5 J	ND(0.34)	NA	ND(0.42)
Acenaphthene	ND(0.35)	3.0 J	ND(0.34)	NA	ND(0.42)
Acenaphthylene	0.26 J	7.7	ND(0.34)	NA	ND(0.42)
Anthracene	0.12 J	14	ND(0.34)	NA	ND(0.42)
Benzidine	ND(0.71) J	14 J	ND(0.68) J	NA	
Benzo(a)anthracene	1.3	42	ND(0.34)	NA	ND(0.42)
Benzo(a)pyrene	1.3	36	ND(0.34)	NA	ND(0.42)
Benzo(b)fluoranthene	1.4	38	ND(0.34)	NA	ND(0.42)
Benzo(g,h,i)perylene	0.76	19 J	ND(0.34)	NA	ND(0.42)
Benzo(k)fluoranthene	0.62 J	18 J	ND(0.34) J	NA	ND(0.42)
bis(2-Ethylhexyl)phthalate	ND(0.35)	ND(7.0)	ND(0.34)	NA	ND(0.42)
Chrysene	1.5	45	ND(0.34)	NA	ND(0.42)
Dibenzo(a,h)anthracene	0.40 J	8.0	ND(0.34) J	NA	ND(0.85)
Dibenzofuran	ND(0.35)	4.0 J	ND(0.34)	NA	ND(0.42)
Fluoranthene	1.9	83	ND(0.34)	NA	ND(0.42)
Fluorene	0.078 J	11	ND(0.34)	NA	ND(0.42)
Indeno(1,2,3-cd)pyrene	0.79	19 J	ND(0.34) J	NA	ND(0.85)
Naphthalene	0.032 J	2.0 J	ND(0.34)	NA	ND(0.42)
Phenanthrene	0.56	57	ND(0.34)	NA	ND(0.42)
Pyrene	1.9	56	ND(0.34)	NA	ND(0.42)
Furans					
2,3,7,8-TCDF	0.0000061 Y	0.000045 Y	0.0000026 Y	NA	0.0000037
TCDFs (total)	0.000037 Q	0.00029 Q	0.000031	NA	0.000023
1,2,3,7,8-PeCDF	0.0000021 J	0.000012 JQ	0.0000033 J	NA	ND(0.0000010) X
2,3,4,7,8-PeCDF	0.0000030 J	0.000036 JQ	0.0000086	NA	0.0000016
PeCDFs (total)	0.000040 Q	0.00046 Q	0.00011	NA	0.000021
1,2,3,4,7,8-HxCDF	0.0000023 J	0.000021 J	0.00012	NA	0.0000042
1,2,3,6,7,8-HxCDF	0.0000012 J	0.000015 J	0.000027	NA	0.0000021 J
1,2,3,7,8,9-HxCDF	ND(0.00000055)	0.0000047 J	0.0000017 J	NA	ND(0.00000015) X
2,3,4,6,7,8-HxCDF	0.0000021 J	0.000037 J	0.000012	NA	0.0000016 J
HxCDFs (total)	0.000028	0.00059	0.00031	NA	0.000020
1,2,3,4,6,7,8-HpCDF	0.0000051 J	0.000081	0.00040	NA	0.0000072
1,2,3,4,7,8,9-HpCDF	0.00000055 J	0.000010 J	0.000014	NA	0.0000011 J
HpCDFs (total)	0.0000098	0.00026	0.00047	NA	0.000013
OCDF	0.0000057 J	0.00020	0.00034	NA	0.0000033 J
Dioxins					
2,3,7,8-TCDD	ND(0.00000040)	ND(0.0000052) Q	ND(0.00000034)	NA	0.00000017 J
TCDDs (total)	0.00000046 J	ND(0.0000052) Q	ND(0.00000034)	NA	0.0000013
1,2,3,7,8-PeCDD	ND(0.00000055)	ND(0.0000028) Q	ND(0.00000047)	NA	0.00000054 J
PeCDDs (total)	0.00000062 JQ	0.0000036 JQ	ND(0.00000047)	NA	0.0000014
1,2,3,4,7,8-HxCDD	ND(0.00000055)	ND(0.0000035)	ND(0.00000047)	NA	ND(0.00000043) X
1,2,3,6,7,8-HxCDD	ND(0.00000055)	0.0000082 J	ND(0.00000047)	NA	0.00000057 J
1,2,3,7,8,9-HxCDD	ND(0.00000055)	ND(0.0000035)	ND(0.00000047)	NA	0.00000093 J
HxCDDs (total)	0.0000029 J	0.000081	0.0000012 J	NA	0.0000043
1,2,3,4,6,7,8-HpCDD	0.0000048 J	0.00026	0.0000015 J	NA	0.0000029 J
HpCDDs (total)	0.000010	0.0010	0.0000030 J	NA	0.0000059
OCDD	0.000036	0.0017 J	0.0000072 J	NA	0.000011
Total TEQs (WHO TEFs)	0.0000035	0.000039	0.000026	NA	0.0000030

Table 2
Soil Analytical Results - Appendix IX+3 Constituents

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Hill 78 Area-Remainder
General Electric Company - Pittsfield, Massachusetts
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: / Sample Depth(Feet): / Date Collected:	RAA9-G2S 0-1 06/06/07	RAA9-I2 0-1 06/06/07	RAA9-I6 1-6 06/07/07	RAA9-I6 2-4 06/07/07	OPCA-1 0-1 05/26/99
Inorganics						
Arsenic		10.3	6.17	10.5	NA	4.70
Barium		34.2	24.0	25.1 J	NA	58.3
Beryllium		ND(1.15) J	0.581 J	ND(0.957)J	NA	0.390
Cadmium		ND(1.15) J	ND(1.02) J	ND(0.957)	NA	0.660
Chromium		12.7	11.1	10.0	NA	14.5
Cobalt		11.5	6.48	9.64	NA	10.3
Copper		24.7	160	29.0	NA	21.9
Lead		27.3	72.0	11.4	NA	11.4
Mercury		0.0309	0.0486	0.0262	NA	ND(0.260)
Nickel		22.0	13.5	19.9	NA	19.9
Thallium		0.955 J	ND(1.02) J	ND(0.957) J	NA	ND(0.970)
Tin		ND(1.15)	8.36	ND(0.957) J	NA	ND(58.3)
Vanadium		12.5	9.74	7.92	NA	17.0
Zinc		87.7 J	125 J	53.7	NA	59.0

Table 2
Soil Analytical Results - Appendix IX+3 Constituents

Third Supplemental Data Letter
Hill 78 Area-Remainder
General Electric Company - Pittsfield, Massachusetts
(Results are presented in dry weight parts per million, ppm)

Notes:

1. Samples were collected by ARCADIS BBL, and submitted to SGS Environmental Services, Inc. for analysis of Appendix IX+3 constituents.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS BBL (approved March 15, 2007 and re-submitted March 30, 2007).
3. NA - Not Analyzed.
4. ND - Analyte was not detected. The number in 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. With the exception of dioxin/furans, only those constituents detected in one or more samples are summarized.
7. Historical data from sample OPCA-1 previously presented in Pre-Design Investigation Report for Hill 78-Remainder, September 2005.

Data Qualifiers:

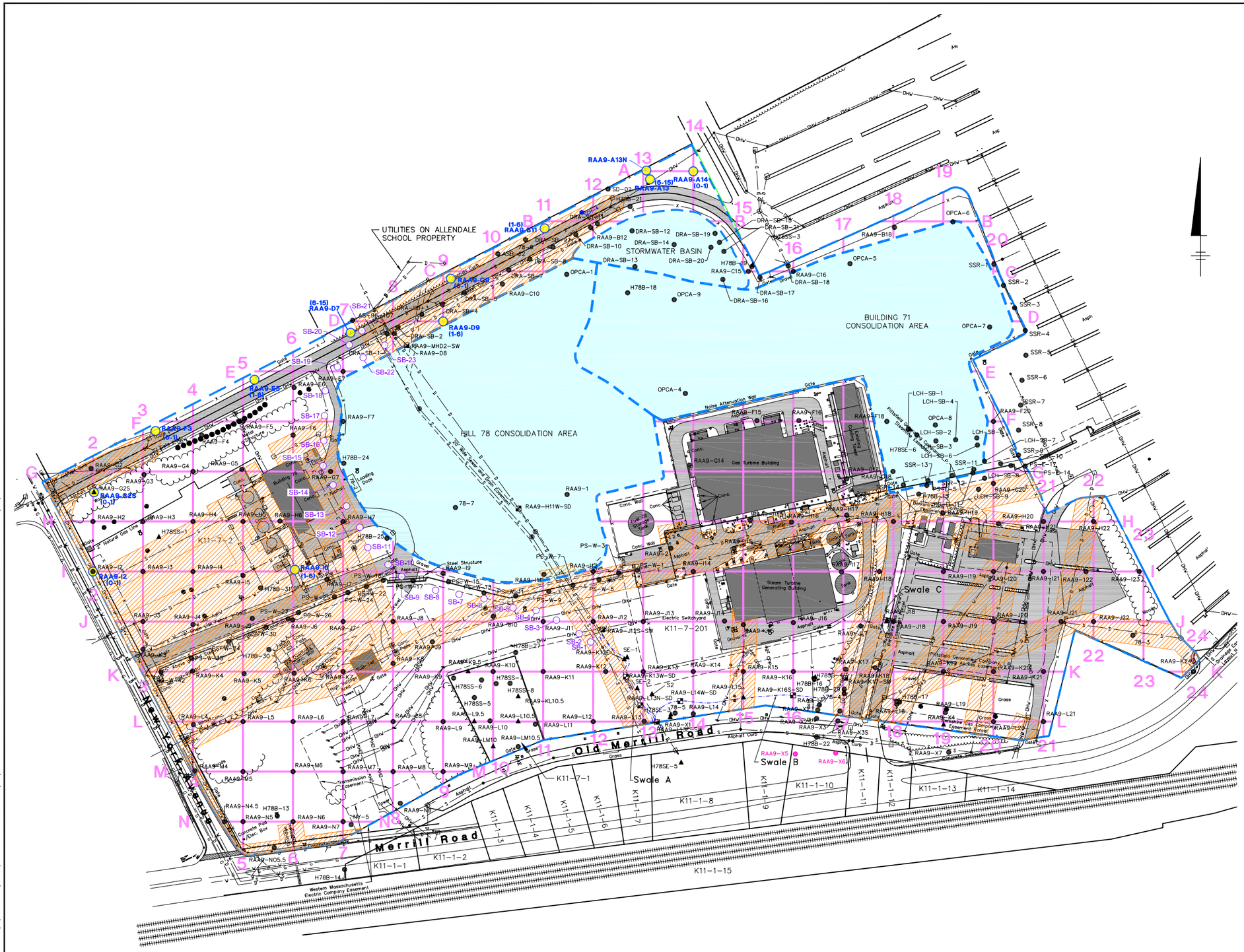
Organics (volatiles, semivolatiles,dioxin/furans)

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

Inorganics

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

Figure



LEGEND:

- K11–7–2 — PROPERTY ID
- APPROXIMATE SITE BOUNDARY
- HILL 78 AND BUILDING 71 CONSOLIDATION AREAS (NOT PART OF HILL 78 AREA–REMAINDER RAA)
- PROPERTY LINE
- EASEMENT LINE
- FENCE LINE
- EDGE OF SWALE
- INDEX ELEVATION CONTOUR LINE
- INTERMEDIATE ELEVATION CONTOUR LINE
- EDGE OF WOODS
- LIGHT POLE
- UTILITY POLE
- BUSH/TREE/SHRUB
- GAS MARKER
- MANHOLE
- SANITARY MANHOLE
- CATCH BASIN
- DRAIN MANHOLE
- ELECTRIC MANHOLE
- WATER VALVE
- FIRE HYDRANT
- OHW — OVERHEAD WIRE
- D — STORM SEWER (DRAINAGE) LINE
- E — UNDERGROUND ELECTRIC LINE
- S — SANITARY LINE
- W — WATER LINE
- G — GAS LINE
- GE–OWNED PAVED AREA
- BUILDING/STRUCTURE
- APPROXIMATE LOCATION OF BAND SURROUNDING SUBSURFACE UTILITIES (25 FEET WIDE ON EACH SIDE OF UTILITY)
- 78–7 ● — EXISTING PCB SOIL BORING LOCATION
- H78SS–1 ▲ — EXISTING PCB SURFACE SAMPLE LOCATION
- EXISTING SURFACE WATER SAMPLE LOCATION (PCB & APPENDIX IX+3)
- EXISTING SEDIMENT SAMPLE LOCATION (PCB & APPENDIX IX+3)
- RAA9–X5 ○ — 3RD SUPPLEMENTAL SAMPLING LOCATION
- (1–6) — APPENDIX IX+3 SAMPLE DEPTH
- SB–1 ○ — BORING LOCATIONS FOR RE–ROUTING OF SANITARY AND STORM PIPELINES
- RAA9–X6 ● — CONTINGENCY SOIL BORING LOCATION (NOT ANALYZED)

NOTES:

1. MAPPING BASED ON ELECTRONIC FILE (S2149W01.DWG) OF SURVEY BY FORESIGHT LAND SEVICES, DATED 3/16/06. UTILITY LOCATIONS BASED ON AVAILABLE RECORD DATA AND VISIBLE FIELD EVIDENCE AND ARE NOT REPRESENTED AS BEING EXACT OR COMPLETE.
2. SAMPLES FROM ALL LOCATIONS WILL BE COLLECTED FOR PCB ANALYSIS FROM DEPTHS OF 0–1, 1–6, AND 6–15 FEET, EXCEPT FOR LOCATIONS RAA9–G2S AND RAA9–I2 (WHERE NO PCB ANALYSES ARE REQUIRED).

0 100' 200'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

SUPPLEMENTAL PRE-DESIGN INVESTIGATION FOR HILL 78 AREA-REMAINDER

SUPPLEMENTAL SOIL CHARACTERIZATION SAMPLE LOCATIONS

ARCADIS BBL
Infrastructure, environment, facilities

FIGURE 1

[LEAD DWG] SYR-85-RCB RCB AMS LAYER: ON=*, OFF=REF, (FRZ)
G:\CAD\GE-CAD\GE_ACTIVE\C\20464031\hill78\20464007.DWG SAVED:7/26/2007 4:36 PM LAYOUT:1 PAGESETUP:---- PENTABLE:PLTFULL.CTB PRINTED:7/30/2007 11:44 AM BY:WJONES
PROJECTNAME:----
XREFS: IMAGES:
20464X01

Attachments

ARCADIS BBL

Attachment A

Soil Boring Logs

Date Start/Finish: 6/7/2007 **Drilling Company:** ABBL **Driller's Name:** Paulo Filippetti **Drilling Method:** AMS PowerProbe **Auger Size:** **Rig Type:** **Sample Method:** 2" OD x 4' L Macrocore	**Northing:** 536040.9 **Easting:** 136167.2 **Casing Elevation:** NA **Borehole Depth:** 15' **Surface Elevation:** 1015.7 **Descriptions By:** Paolo Filippetti	**Boring ID:** RAA9-A13 **Client:** General Electric Company **Location:** Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 1015	1	0-1	3.5	0.0		Dark-brown fine SAND and SILT, trace Roots.	
	2	1-3		0.0		Dark-gray fine SAND and SILT, trace fine to medium Gravel.	
	3	3-4		0.0			Borehole backfilled with Bentonite chips to grade.
5 1010	4	4-6	3.1	0.0		Lite-brown fine SAND and SILT.	
	5	6-8		0.0			
	6	8-10	2.7	0.0			
10 1005	7	10-12		0.0		Dark-brown PEAT.	
	8	12-14	2.9	0.0		Gray-brown fine SAND and SILT, trace fine Gravel.	
15 1000	9	14-15		0.0			

ARCADIS BBL
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available; bgs = below ground surface.

Analyses:
(0-1'): PCBs; (1-6'): PCBs; (8-10'): VOCs;
(6-15'): PCBs, SVOCs, Inorganics, PCDDs/PCDFs

Date Start/Finish: 7/5/07 **Drilling Company:** ABBL **Driller's Name:** Ed Cimilluca **Drilling Method:** Jackhammer **Auger Size:** **Rig Type:** **Sample Method:** 2" OD x 4' L Macrocore	**Northing:** 536058.8 **Easting:** 136160.0 **Casing Elevation:** **Borehole Depth:** 15' **Surface Elevation:** 1009.1 **Descriptions By:** Greg Rabasco	**Boring ID:** RAA9-A13N **Client:** General Electric Company **Location:** Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
1010							
0	1	0-1	2.4	0.0		Gray - brown SILT, some organic material, lite brown fine Sand.	Borehole backfilled with Bentonite chips to grade.
	2	1-3		0.0		Brown fine SAND, some Silt and Gravel,	
	3	3-4		0.0			
1005	4	4-6	3.7	0.0		Gray light fine SAND, some Gravel.	
5	5	6-8		0.0		Dark brown SILT, some Peat and Organic and Organic Material. Gray fine SAND, some light Gravel.	
1000	6	8-10	4.0	0.0		Gray-brown light fine SAND, some Silt and Gravel, some Clay.	
10	7	10-12		0.0			
	8	12-14	3.0	0.0			
995	9	14-15		0.0			

ARCADIS BBL
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available; bgs = below ground surface.

Analyses:
(0-1'): PCBs; (1-6'): PCBs; (6-15'): PCBs.

Date Start/Finish: 6/6/2007 **Drilling Company:** ABBL **Driller's Name:** Ed Cimilluca **Drilling Method:** AMS PowerProbe **Auger Size:** **Rig Type:** **Sample Method:** 2" OD x 4' L Macrocore	**Northing:** 536056.9 **Easting:** 136253.9 **Casing Elevation:** NA **Borehole Depth:** 15' **Surface Elevation:** 1018.8 **Descriptions By:** Greg Rabasco	**Boring ID:** RAA9-A14 **Client:** General Electric Company **Location:** Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
1020							
0	1	0-1	3.5	0.0		Brown fine SAND and SILT, some Organic Material, trace Gravel.	
	2	1-3		0.0		Gray-brown fine SAND, some Silt, trace Gravel.	
1015	3	3-4		0.0			Borehole backfilled with Bentonite chips to grade.
5	4	4-6	2.0	0.0			
	5	6-8		0.0			
1010	6	8-10	2.8	0.0		Gray fine SAND, some Gravel, moist.	
10	7	10-12		0.0			
	8	12-14	3.0	0.0		Gray fine SAND, some gravel, trace Silt, wet.	
1005	9	14-15		0.0			
15							

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Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available; bgs = below ground surface.

Analyses:
(0-1'): PCBs, VOCs, SVOCs, Inorganics, PCDDs/PCDFs;
(1-6'): PCBs, RAA-07-Dup-4; (6-15'): PCBs, MS/MSD

Date Start/Finish: 6/6/2007 **Drilling Company:** ABBL **Driller's Name:** Ed Cimilluca **Drilling Method:** AMS PowerProbe **Auger Size:** **Rig Type:** **Sample Method:** 2" OD x 4' L Macrocore	**Northing:** 535943.1 **Easting:** 135956.7 **Casing Elevation:** NA **Borehole Depth:** 15' **Surface Elevation:** 1011.9 **Descriptions By:** Greg Rabasco	**Boring ID:** RAA9-B11 **Client:** General Electric Company **Location:** Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0	1	0-1	2.8	0.0		Brown fine SAND and SILT, some Gravel.
1010	2	1-3		0.0		Brown fine SAND, some Silt and Gravel.
	3	3-4		0.0		
5	4	4-6	3.5	0.0		
1005	5	6-8		0.0		
	6	8-10	2.2	0.0		Brown fine SAND, some Silt and Gravel, moist.
10	7	10-12		0.0		
1000	8	12-14	2.0	0.0		Gray fine SAND, some Gravel, wet.
	9	14-15		0.0		
15						

Boring Construction: Borehole backfilled with Bentonite chips to grade.

ARCADIS BBL
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available; bgs = below ground surface.

Analyses:
(0-1'): PCBs, VOCs, SVOCs, Inorganics, PCDDs/PCDFs;
(1-3'): VOCs, MS/MSD; (1-6'): PCBs, VOCs, SVOCs, Inorganics,
(1-6'): PCDDS/PCDFs, MS/MSD; (6-15'): PCBs

Date Start/Finish: 6/5/2007 **Drilling Company:** ABBL **Driller's Name:** Ed Cimilluca **Drilling Method:** AMS PowerProbe **Auger Size:** **Rig Type:** **Sample Method:** 2" OD x 4' L Macrocore	**Northing:** 535842.5 **Easting:** 135769.1 **Casing Elevation:** **Borehole Depth:** 15' **Surface Elevation:** 1010.0 **Descriptions By:** Greg Rabasco	**Boring ID:** RAA9-C9 **Client:** General Electric Company **Location:** Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
1010							
	1	0-1	3.5	0.0		Brown SILT, some fine Sand and Organic Material.	
	2	1-3		0.0		Gray-brown fine SAND and SILT, some Gravel.	
	3	3-4		0.0			Borehole backfilled with Bentonite chips to grade.
1005	4	4-6	3.3	0.0			
	5	6-8		0.0		Brown fine SAND.	
	6	8-10	3.2	0.0		Gray fine SAND, some Gravel, moist.	
1000	7	10-12		0.0			
	8	12-14	3.0	0.0		Brown PEAT	
	9	14-15		0.0		Gray fine SAND, moist.	
995							

ARCADIS BBL
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available; bgs = below ground surface.

Analyses:
(0-1'): PCBs, VOCs, SVOCs, Inorganics, PCDDS/PCDFs;
(1-6'): PCBs; (6-15'): PCBs

Date Start/Finish: 6/7/2007 **Drilling Company:** ABBL **Driller's Name:** Paolo Filippetti **Drilling Method:** AMS PowerProbe **Auger Size:** **Rig Type:** **Sample Method:** 2" OD x 4' L Macrocore	**Northing:** 535734.3 **Easting:** 135568.8 **Casing Elevation:** NA **Borehole Depth:** 15' **Surface Elevation:** 1015.4 **Descriptions By:** Paolo Filippetti	**Boring ID:** RAA9-D7 **Client:** General Electric Company **Location:** Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 1015	1	0-1	3.5	0.0		Dark-brown fine SAND and SILT, trace fine Gravel, trace Roots.	Borehole backfilled with Bentonite chips to grade.
	2	1-3		0.0		Brown medium to fine SAND, little Silt, little fine Gravel.	
	3	3-4		0.0			
5 1010	4	4-6	3.1	0.0		Brown medium to fine SAND, some fine Gravel and Silt.	
	5	6-8		0.0			
	6	8-10	2.7	0.0			
10 1005	7	10-12		0.0		Lite-brown fine to medium SAND, some fine to medium Gravel.	
	8	12-14	2.9	0.0		Weathered LIMESTONE.	
	9	14-15		0.0		Brown medium to fine SAND, some fine GRAVEL.	
15 1000							

ARCADIS BBL
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available; bgs = below ground surface.

Analyses:
(0-1'): PCBs; (1-6'): PCBs; (10-12'): VOCs;
(6-15'): PCBs, SVOCs, Inorganics, PDCCs/PCDFs

Date Start/Finish: 6/7/2007 **Drilling Company:** ABBL **Driller's Name:** Paolo Filippetti **Drilling Method:** AMS PowerProbe **Auger Size:** **Rig Type:** **Sample Method:** 2" ID x 4' L Macrocore	**Northing:** 535757.1 **Easting:** 135753.8 **Casing Elevation:** NA **Borehole Depth:** 15' **Surface Elevation:** 1006.6 **Descriptions By:** Paolo Filippetti	**Boring ID:** RAA9-D9 **Client:** General Electric Company **Location:** Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 / 1005	1	0-1	3.4	0.0		Dark-brown fine SAND and SILT, trace fine Gravel, and Roots.	Borehole backfilled with Bentonite chips to grade.
	2	1-3		0.0		Grey-brown SILT, some fine SAND.	
	3	3-4		0.0			
5 / 1000	4	4-6	3.3	0.0		Grey fine SAND and SILT, trace fine Gravel.	
	5	6-8		0.0			
	6	8-10	3.0	0.0		Dark-brown PEAT.	
10 / 995	7	10-12		0.0		Brown fine to medium SAND.	
	8	12-14	3.0	0.0		Yellow-brown fine SAND.	
15	9	14-15		0.0			

ARCADIS BBL
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available; bgs = below ground surface.

Analyses: (0-1'): PCBs; (1-6'): PCBs, SVOCs, Inorganics, PCDDs, PCDFs
(4-6'): VOCs, (6-15'): PCBs

Date Start/Finish: 6/5/2007 **Drilling Company:** ABBL **Driller's Name:** Ed Cimilluca **Drilling Method:** AMS PowerProbe **Auger Size:** **Rig Type:** **Sample Method:** 2" OD x 4' L Macrocore	**Northing:** 535640.4 **Easting:** 135376.7 **Casing Elevation:** NA **Borehole Depth:** 15.0' **Surface Elevation:** 1020.5 **Descriptions By:** Greg Rabasco	**Boring ID:** RAA9-E5 **Client:** General Electric Company **Location:** Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 1020	1	0-1	3.0	0.0		Brown SILT and SAND, some Organic Material.	Borehole backfilled with Bentonite chips to grade.
	2	1-3		0.0		Light-brown fine SAND, some Gravel and Silt.	
	3	3-4		0.0			
5 1015	4	4-6	3.7	0.0			
	5	6-8		0.0		Gray SILT, some Clay and Gravel.	
	6	8-10	3.8	0.0			
10 1010	7	10-12		0.0			
	8	12-14	3.0	0.0			
	9	14-15		0.0			
15 1005							

ARCADIS BBL
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available; bgs = below ground surface.

Analysis:
(0-1'): PCBs; (1-6'): PCBs, VOCs, SVOCs, Inorganics, PCDDs/PCDFs;
(4-6'): DOCs, VOCs, RAA-07-Dup-2

Date Start/Finish: 6/5/2007 **Drilling Company:** ABBL **Driller's Name:** Ed Cimilluca **Drilling Method:** AMS PowerProbe **Auger Size:** **Rig Type:** **Sample Method:** 2" OD x 4' L Macrocore	**Northing:** 535537.9 **Easting:** 135178.8 **Casing Elevation:** NA **Borehole Depth:** 15' **Surface Elevation:** 1010.7 **Descriptions By:** Greg Rabasco	**Boring ID:** RAA9-F3 **Client:** General Electric Company **Location:** Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 1010	1	0-1	2.4	0.0		Brown SILT and fine SAND, some Gravel and Organic Material.	Borehole backfilled with Bentonite chips to grade.
	2	1-3		0.0			
	3	3-4		0.0			
5 1005	4	4-6	3.6	0.0		Grey-brown SILT, some fine Sand, trace Gravel.	
	5	6-8		0.0			
	6	8-10	3.8	0.0			
10 1000	7	10-12		0.0			
	8	12-14	3.0	0.0			
	9	14-15		0.0			
15 995							

ARCADIS BBL
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available; bgs = below ground surface.

Analysis: (0-1'): PCBs, VOCs, SVOCs, Inorganics, PCDDs/PCDFs;
(1-6'): PCBs; (6-15'): PCBs

Date Start/Finish: 6/6/2007
Drilling Company: ABBL
Driller's Name: Greg Rabasco
Drilling Method: AMS PowerProbe
Auger Size:
Rig Type:
Sample Method: 2" OD x 4' L Macrocore

Northing: 535415.3
Easting: 135055.9
Casing Elevation: NA

Borehole Depth: 1.0
Surface Elevation: 999.5

Descriptions By: Greg Rabasco

Boring ID: RAA9-G2S

Client: General Electric Company

Location:
Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
1000 / 0	1	0-1	1.0	0.0		Brown SILT, some fine Sand and Gravel, trace Organic Material.	Borehole backfilled with Bentonite chips to grade.
995 / 5							
990 / 10							
985 / 15							

ARCADIS BBL
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available; bgs = below ground surface.

Analyses:
(0-1'): PCBs

Date Start/Finish: 6/6/2007 **Drilling Company:** ABBL **Driller's Name:** Greg Rabasco **Drilling Method:** AMS PowerProbe **Auger Size:** **Rig Type:** **Sample Method:** 2" ID x 4' L Macrocore	**Northing:** 535256.9 **Easting:** 135053.9 **Casing Elevation:** NA **Borehole Depth:** 15' **Surface Elevation:** 994.6 **Descriptions By:** Greg Rabasco	**Boring ID:** RAA9-I2 **Client:** General Electric Company **Location:** Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
995 0	1	0-1	1.0	0.0		Dark-brown SILT, some fine Sand and Gravel, some Organic Material, trace Asphalt pieces.	Borehole backfilled with Bentonite chips to grade.
990 5							
985 10							
980 15							

ARCADIS BBL
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available; bgs = below ground surface.

Analyses:
(0-1'): VOCs, SVOCs, Inorganics, PCDDS/PCDFS

Date Start/Finish: 6/7/2007 **Drilling Company:** ABBL **Driller's Name:** Paolo Filippetti **Drilling Method:** AMS PowerProbe **Auger Size:** **Rig Type:** **Sample Method:** 2" ID x 4' L. Macrocore	**Northing:** 535260.8 **Easting:** 135457.5 **Casing Elevation:** NA **Borehole Depth:** 15' **Surface Elevation:** 1011.0 **Descriptions By:** Paolo Filippetti	**Boring ID:** RAA9-I6 **Client:** General Electric Company **Location:** Pittsfield, Massachusetts

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Boring Construction
0 / 1010	1	0-1		0.0		Orange-brown fine to medium SAND, trace fine Gravel.	Borehole backfilled with Bentonile chips to grade.
	2	1-3		0.0			
	3	3-4		0.0			
5 / 1005	4	4-6		0.0		Light-brown fine to medium SAND, some fine Gravel.	
	5	6-8		0.0		Dark-brown fine SAND.	
	6	8-10		0.0		lite-brown SILT, some fine Sand, trace fine Gravel.	
10 / 1000	7	10-12		0.0			
	8	12-14		0.0		Gray SILT, trace fine Gravel.	
	9	14-15		0.0			
15 / 995							

ARCADIS BBL
Infrastructure, environment, facilities

Remarks: NA = Not Applicable/Available; bgs = below ground surface.

Analyses: (0-1'): PCBs; (1-6'): PCBs, SVOCs, Inorganics, PCDDs, PCDFs
(2-4'): VOCs, (6-15'): PCBs

ARCADIS BBL

Attachment B

Soil Sampling Data Validation Report

Attachment B
Soil Sampling Data Validation Report
Third Supplemental Pre-Design Investigation
Hill 78 Area-Remainder
General Electric Company
Pittsfield, Massachusetts

1.0 General

This attachment summarizes the data validation review performed for soil samples collected during June and July 2007 as part of supplemental pre-design sampling activities conducted at the Hill 78 Area-Remainder Removal Action Area (RAA) located at the General Electric Company (GE) facility in Pittsfield, Massachusetts. The sampling was conducted by ARCADIS of New York (ARCADIS BBL), and the samples were analyzed for polychlorinated biphenyls (PCBs) and/or various other constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (hereafter referred to as Appendix IX+3) by SGS Environmental Services, Inc. (formerly Paradigm Analytical Labs, Inc.) of Wilmington, North Carolina. Data review was performed for 34 PCB samples, 13 volatile organic compound (VOC) samples, 13 semi-volatile organic compound (SVOC) samples, 13 polychlorinated dibenzo-p-dioxin (PCDD)/polychlorinated dibenzofuran (PCDF) samples, 13 metal samples, and 13 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 following documents:

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

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

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

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

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

The following data qualifiers were used in this data evaluation:

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

U The compound was analyzed for, but was not detected. The sample quantitation limit is presented. Non-detect sample results are presented as ND(PQL) within this report for consistency with documents previously prepared for investigations conducted at the GE-Pittsfield/Housatonic River Site.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is estimated and may or may not represent the actual level of quantitation. Non-detect sample results that required qualification are presented as ND(PQL) J within this report for consistency with documents previously prepared for investigations conducted at the GE-Pittsfield/Housatonic River Site.

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

3.0 Data Validation Procedures

Section 7.5 of the FSP/QAPP states that analytical data will be validated to a Tier I level following the procedures presented in the *Region I Tiered Organic and Inorganic Data Validation Guidelines* (EPA guidelines). All supplemental soil sampling analytical data collected during the June and July 2007 investigations were subjected to Tier I review. The Tier I review consisted of a completeness evidence audit, as outlined in the *EPA Region I CSF Completeness Evidence Audit Program* (EPA Region I, July 31, 1991), to ensure that laboratory data and documentation were present. In the event data packages were determined to be incomplete, the missing information was requested from the laboratory. Upon completion of the Tier I review, the data packages complied with the EPA Region I Tier I data completeness requirements.

The Tier II data review consisted of a review of data package summary forms for identification of quality assurance/quality control (QA/QC) deviations and qualification of the data according to the Region I Data Validation Functional Guidelines. Additionally, field duplicates were examined for relative percent difference (RPD) compliance with the criteria specified in the FSP/QAPP.

A tabulated summary of the samples subject to Tier I and Tier II data review is presented in the following table.

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

Parameter	Tier I Only			Tier I &Tier II			Total
	Samples	Duplicates	Blanks	Samples	Duplicates	Blanks	
PCBs	3	0	0	27	2	2	34
VOCs	0	0	0	11	1	1	13
SVOCs	0	0	0	11	1	1	13
PCDDs/PCDFs	0	0	0	11	1	1	13
Metals	0	0	0	11	1	1	13
Cyanide/Sulfide	0	0	0	11	1	1	13
Total	**3**	**0**	**0**	**82**	**7**	**7**	**66**

Three of the four laboratory sample delivery group packages obtained between June and July 2007 (approximately 95% of the data) were randomly chosen to be subjected to Tier II review.

When qualification of the sample data was required, the sample results associated with a QA/QC parameter deviation were qualified in accordance with the procedures outlined in EPA Region I data validation guidance documents. When the data validation process identified several quality control deficiencies, the cumulative effect of the various deficiencies was employed in assigning the final data qualifier. A summary of the QA/QC parameter deviations that resulted in data qualification is presented in Section 4 below.

4.0 Summary of QA/QC Parameter Deviations Requiring Data Qualification

This section provides a summary of the deviations from the applicable QA/QC criteria that resulted in qualification of results.

The initial calibration criterion for organic analyses requires that the average relative response factor (RRF) has a value greater than 0.05. Sample results were qualified as estimated (J) when this criterion was not met. The compounds that did not meet the initial calibration criterion and the number of samples qualified are presented in the following table.

Compounds Qualified Due to Initial Calibration Deviations (RRF)

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,2-Dibromo-3-chloropropane	1	J
	1,4-Dioxane	13	J
	2-Chloroethylvinylether	12	J
	Acetone	1	J
	Acetonitrile	13	J
	Acrolein	13	J
	Acrylonitrile	1	J

Compounds Qualified Due to Initial Calibration Deviations (RRF)

Analysis	Compound	Number of Affected Samples	Qualification
VOCs (continued)	Isobutanol	13	J
	Propionitrile	13	J
SVOCs	4-Nitroquinoline-1-oxide	13	J
	a,a'-Dimethylphenethylamine	13	J
	Aramite	13	J

Several of the organic compounds (including the compounds presented in the table above 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-detect compound results associated with a RF less than the minimum value of 0.05 are to be rejected (R). However, in the case of these select organic compounds, the RF is an inherent problem with the current analytical methodology; therefore, the non-detect sample results were qualified as estimated (J).

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

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	2-Butanone	4	J
	2-Chloroethylvinylether	4	J
	2-Hexanone	8	J
	Acetone	9	J
	Iodomethane	4	J
	Methylene Chloride	4	J
	Tetrachloroethene	1	J
SVOCs	1-Naphthylamine	13	J
	2-Acetylaminofluorene	13	J
	2-Naphthylamine	13	J
	3,3'-Dichlorobenzidine	4	J
	3-Methylcholanthrene	13	J
	4-Nitrophenol	4	J
	4-Nitroquinoline-1-oxide	13	J
	a,a'-Dimethylphenethylamine	9	J
SVOCs	Aniline	8	J
	Aramite	4	J

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compound	Number of Affected Samples	Qualification
(continued)	Benzidine	13	J
	Benzo(g,h,i)perylene	1	J
	Dibenzo(a,h)anthracene	8	J
	Hexachlorocyclopentadiene	4	J
	Hexachlorophene	1	J
	Hexachloropropene	4	J
	Indeno(1,2,3-cd)pyrene	5	J
	Methapyrilene	8	J
	o-Toluidine	13	J

Contract required detection limit (CRDL) standards were analyzed to evaluate instrument performance at low-level concentrations that are near the analytical method PQL. These standards are required to have recoveries between 80% and 120% to verify that the analytical instrumentation was properly calibrated. When CRDL standard recoveries were outside the 80% to 120% control limits, the affected samples with detected results at or near the PQL concentration (i.e., less than three times the PQL) were qualified as estimated (J). The analytes that did not meet CRDL criteria and the number of samples qualified due to those deviations are presented in the following table.

Analytes Qualified Due to CRDL Standard Recovery Deviations

Analysis	Analyte	Number of Affected Samples	Qualification
Inorganics	Barium	6	J
	Beryllium	13	J
	Cadmium	6	J
	Chromium	1	J
	Cobalt	1	J
	Copper	1	J
	Lead	1	J
	Nickel	1	J
	Selenium	6	J
	Silver	6	J
	Thallium	10	J
	Tin	7	J
	Zinc	1	J

Matrix spike/Matrix spike duplicate (MS/MSD) sample analysis recovery criteria for organic analysis require that the MS/MSD recoveries be within the laboratory-generated QC acceptance limits specified on the MS/MSD reporting form and inorganics MS recoveries must be within 75% to 125%. Organic and inorganic sample results associated with MS/MSD recoveries less than the specified control limit, but greater than 10% and 30%, respectively, were qualified as estimated (J). The analytes/compounds that did not meet MS/MSD recovery criteria and the number of samples qualified due to those deviations are presented in the following table.

Analytes/Compounds Qualified Due to MS/MSD Recovery Deviations

Analysis	Analyte/Compound	Number of Affected Samples	Qualification
VOCs	1,2-Dichloropropane	1	J
	cis-1,3-Dichloropropene	1	J
	Ethylbenzene	1	J
	Styrene	1	J
	1,1-Dichloroethane	1	J
	1,2-Dibromo-3-chloropropane	1	J
	1,2-Dichloroethane	1	J
	1,2-Dichloropropane	1	J
	Bromodichloromethane	1	J
	Chloroform	1	J
	Chloromethane	1	J
	Dichlorodifluoromethane	1	J
	trans-1,3-Dichloropropene	1	J
	trans-1,4-Dichloro-2-butene	1	J
	Vinyl Chloride	1	J
SVOCs	Dibenzo(a,h)anthracene	1	J
Inorganics	Selenium	4	J
	Antimony	4	J
	Zinc	4	J
	Sulfide	8	J

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analysis recovery criteria for organics must be within the laboratory-generated QC acceptance limits specified on the LCS/LCSD reporting form. Organic sample results associated with an LCS/LCSD that exceeded laboratory-generated QC acceptance limits and exhibited a recovery greater than 10% were qualified as estimated (J). Associated non-detect organic sample results that exhibited LCS/LCSD recoveries below 10% were qualified as rejected (R). The compounds that did not meet LCS/LCSD recovery criteria and the number of samples qualified due to those deviations are presented in the following table.

Compounds Qualified Due to LCS/LCSD Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,2,3-Trichloropropane	1	J
	1,2-Dibromo-3-chloropropane	4	J
	2-Hexanone	4	J
	4-Methyl-2-pentanone	4	J
	Acetone	5	J
	Methylene Chloride	4	J
	trans-1,4-Dichloro-2-butene	4	J
	1,2-Dibromo-3-chloropropane	4	J
	trans-1,4-Dichloro-2-butene	8	J
SVOCs	Benzo(k)fluoranthene	8	J
	Nitrobenzene	1	R

LCS/LCSD sample analysis recovery criteria for organics require that the RPD between the LCS and LCSD recoveries be less than the laboratory-generated QC acceptance limit. The number of samples qualified due to this deviation is presented in the following table.

Compound Qualified Due to LCS/LCSD RPD Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,2,3-Trichloropropane	1	J

Blank action levels for organic and inorganic analytes/compounds detected in the blanks were calculated at five times the blank concentrations (blank action levels were calculated at 10 times the blank concentration for common laboratory contaminants). Detected sample results that were below the blank action level were qualified with a "U." The analytes/compound detected in method/analytical blanks which resulted in qualification of sample data, along with the number of affected samples, are presented in the following table.

Analytes/Compound Qualified Due to Blank Deviations

Analysis	Analyte/Compound	Number of Affected Samples	Qualification
VOCs	Methylene Chloride	4	U
Inorganics	Antimony	10	U
	Beryllium	4	U
	Cadmium	7	U
	Selenium	1	U
	Silver	8	U

Internal standard compounds for PCDDs/PCDFs are required to be between 25% and 150%. Sample results for the associated compounds were qualified as estimated (J) when the internal standard recovery was less than 25% for PCDDs/PCDFs. The compound associated with internal standards which exceeded the recovery criteria and the number of samples qualified due to those deviations are presented in the following table.

Compound Qualified Due to Internal Standard Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
PCDDs/PCDFs	OCDD	1	J

5.0 Overall Data Usability

This section summarizes the analytical data in terms of its completeness and usability. Data completeness is defined as the percentage of sample results that have been determined to be usable during the data validation process. The percent usability calculation included analyses evaluated under both the Tier I/II data validation reviews. The percent usability calculation also includes quality control samples (i.e., field/equipment blanks, trip blanks, and field duplicates) to aid in the evaluation of data usability. Data usability is summarized in the following table.

Data Usability

Parameter	Percent Usability	Rejected Data
PCBs	100	None
VOCs	100	None
SVOCs	99.9	A total of one sample result was rejected due to LCS/LCSD recovery deviations.
PCDDs/PCDFs	100	None
Metals	100	None
Cyanide and Sulfide	100	None

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

5.1 Precision

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, it is a quantitative measure of the variability of a group of measurements compared to their average value. For this investigation, precision was defined as the RPD between laboratory duplicates, field duplicates, LCS/LCSD, MS/MSD, and ICP serial dilution analyses. For this analytical data set, 0.03% of the data required qualification due to LCS/LCSD RPD deviations. None of the data required qualification due to field duplicate RPD deviations, laboratory duplicate RPD deviations, MS/MSD RPD deviations, or ICP serial dilution deviations.

5.2 Accuracy

Accuracy measures the bias in an analytical system or the degree of agreement of a measurement with a known reference value. For this investigation, accuracy was defined as the percent recovery of QA/QC samples that were spiked with a known concentration of an analyte or compound of interest. The QA/QC samples used to evaluate analytical accuracy included instrument calibration, internal standards, LCS/LCSDs, MS/MSD samples, CRDL samples, and surrogate compound recoveries. For this analytical data set, 10.0% of the data required qualification due to instrument calibration deviations, 0.03% of the data required qualification due to internal standard recovery, 1.2% of the data required qualification due to MS/MSD recovery deviations, 2.0% of the data required qualification due to CRDL recovery deviations, and 1.5% of the data required qualification due to LCS recovery deviations. None of the data required qualification due to surrogate compound recovery deviations.

5.3 Representativeness

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

5.4 Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. This goal was achieved through the use of the standardized techniques for sample collection and analysis presented in the FSP/QAPP. Specifically, all the soil samples collected between June and July 2007 were analyzed by EPA method 8082 for PCBs, 8260 for VOCs, 8270 for SVOCs, 6000 for metals, 9010/9030 for cyanide/sulfide, and 8290 for PCDD/PCDFs.

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 set ranged from 99.9% to 100% for individual analytical parameters and had an overall usability of 99.9%, which is greater than the minimum required usability of 90% as specified in the FSP/QAPP.

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(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											
G135-434	RAA-07-DUP-3 (1 - 6)	6/5/2007	Soil	Tier II	No						Parent sample RAA9-E5
G135-434	RAA9-C9 (0 - 1)	6/5/2007	Soil	Tier II	No						
G135-434	RAA9-C9 (1 - 6)	6/5/2007	Soil	Tier II	No						
G135-434	RAA9-C9 (6 - 15)	6/5/2007	Soil	Tier II	No						
G135-434	RAA9-E5 (0 - 1)	6/5/2007	Soil	Tier II	No						
G135-434	RAA9-E5 (1 - 6)	6/5/2007	Soil	Tier II	No						
G135-434	RAA9-E5 (6 - 15)	6/5/2007	Soil	Tier II	No						
G135-434	RAA9-F3 (0 - 1)	6/5/2007	Soil	Tier II	No						
G135-434	RAA9-F3 (1 - 6)	6/5/2007	Soil	Tier II	No						
G135-434	RAA9-F3 (6 - 15)	6/5/2007	Soil	Tier II	No						
G135-435	RAA-07-DUP-4 (1 - 6)	6/6/2007	Soil	Tier II	No						Parent sample RAA9-A14
G135-435	RAA9-07-RB-2	6/6/2007	Water	Tier II	No						
G135-435	RAA9-07-RB-3	6/6/2007	Water	Tier II	No						
G135-435	RAA9-A14 (0 - 1)	6/6/2007	Soil	Tier II	No						
G135-435	RAA9-A14 (1 - 6)	6/6/2007	Soil	Tier II	No						
G135-435	RAA9-A14 (6 - 15)	6/6/2007	Soil	Tier II	No						
G135-435	RAA9-B11 (0 - 1)	6/6/2007	Soil	Tier II	No						
G135-435	RAA9-B11 (1 - 6)	6/6/2007	Soil	Tier II	No						
G135-435	RAA9-B11 (6 - 15)	6/6/2007	Soil	Tier II	No						
G135-438	RAA9-A13 (0 - 1)	6/7/2007	Soil	Tier II	No						
G135-438	RAA9-A13 (1 - 6)	6/7/2007	Soil	Tier II	No						
G135-438	RAA9-A13 (6 - 15)	6/7/2007	Soil	Tier II	No						
G135-438	RAA9-D7 (0 - 1)	6/7/2007	Soil	Tier II	No						
G135-438	RAA9-D7 (1 - 6)	6/7/2007	Soil	Tier II	No						
G135-438	RAA9-D7 (6 - 15)	6/7/2007	Soil	Tier II	No						
G135-438	RAA9-D9 (0 - 1)	6/7/2007	Soil	Tier II	No						
G135-438	RAA9-D9 (1 - 6)	6/7/2007	Soil	Tier II	No						
G135-438	RAA9-D9 (6 - 15)	6/7/2007	Soil	Tier II	No						
G135-438	RAA9-I6 (0 - 1)	6/7/2007	Soil	Tier II	No						
G135-438	RAA9-I6 (1 - 6)	6/7/2007	Soil	Tier II	No						
G135-438	RAA9-I6 (6 - 15)	6/7/2007	Soil	Tier II	No						
G135-454	RAA9-A13N (0 - 1)	7/5/2007	Soil	Tier I	No						
G135-454	RAA9-A13N (1 - 6)	7/5/2007	Soil	Tier I	No						
G135-454	RAA9-A13N (6 - 15)	7/5/2007	Soil	Tier I	No						
Metals											
G135-434	RAA-07-DUP-3 (1 - 6)	6/5/2007	Soil	Tier II	Yes	Antimony	Method Blank	-	-	ND(4.54)	Parent sample RAA9-E5
						Beryllium	CRDL Standard %R	52.3%	80% to 120%	ND(1.13) J	
						Beryllium	Method Blank	-	-	ND(1.13)	
						Cadmium	Method Blank	-	-	ND(1.13)	
						Silver	Method Blank	-	-	ND(1.13)	
						Thallium	CRDL Standard %R	163.0%	80% to 120%	ND(1.13) J	
						Tin	CRDL Standard %R	162.0%	80% to 120%	ND(1.13) J	
G135-434	RAA9-C9 (0 - 1)	6/5/2007	Soil	Tier II	Yes	Antimony	Method Blank	-	-	ND(4.37)	
						Beryllium	CRDL Standard %R	52.3%	80% to 120%	ND(1.09) J	
						Cadmium	Method Blank	-	-	ND(1.09)	
						Silver	Method Blank	-	-	ND(1.09)	
						Thallium	CRDL Standard %R	163.0%	80% to 120%	ND(1.09) J	
						Tin	CRDL Standard %R	162.0%	80% to 120%	ND(1.09) J	
G135-434	RAA9-E5 (1 - 6)	6/5/2007	Soil	Tier II	Yes	Antimony	Method Blank	-	-	ND(3.95)	
						Beryllium	CRDL Standard %R	52.3%	80% to 120%	ND(0.986) J	
						Cadmium	Method Blank	-	-	ND(0.986)	
						Silver	Method Blank	-	-	ND(0.986)	
						Thallium	CRDL Standard %R	163.0%	80% to 120%	ND(0.986) J	
						Tin	CRDL Standard %R	162.0%	80% to 120%	ND(0.986) J	
G135-434	RAA9-F3 (0 - 1)	6/5/2007	Soil	Tier II	Yes	Antimony	Method Blank	-	-	ND(4.43)	
						Barium	CRDL Standard %R	124.0%	80% to 120%	ND(1.11) J	
						Beryllium	CRDL Standard %R	47.6%	80% to 120%	ND(1.11) J	
						Beryllium	Method Blank	-	-	ND(1.11)	
						Cadmium	CRDL Standard %R	200.0%	80% to 120%	ND(1.11) J	
						Cadmium	Method Blank	-	-	ND(1.11)	
						Selenium	CRDL Standard %R	129.0%	80% to 120%	ND(2.21) J	
						Silver	CRDL Standard %R	144.0%	80% to 120%	ND(1.11) J	
						Silver	Method Blank	-	-	ND(1.11)	
						Thallium	CRDL Standard %R	156.0%	80% to 120%	ND(1.11) J	
						Tin	CRDL Standard %R	162.0%	80% to 120%	ND(1.11) J	

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Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Metals (continued)											
G135-435	RAA9-07-RB-2	6/6/2007	Water	Tier II	Yes	Barium	CRDL Standard %R	124.0%	80% to 120%	0.0211 J	
						Beryllium	CRDL Standard %R	160.0%	80% to 120%	ND(0.0100) J	
						Cadmium	CRDL Standard %R	200.0%	80% to 120%	0.00657 J	
						Chromium	CRDL Standard %R	152.0%	80% to 120%	0.00606 J	
						Cobalt	CRDL Standard %R	153.0%	80% to 120%	ND(0.0100) J	
						Copper	CRDL Standard %R	170.0%	80% to 120%	0.00627 J	
						Lead	CRDL Standard %R	175.0%	80% to 120%	0.0144 J	
						Nickel	CRDL Standard %R	147.0%	80% to 120%	0.00569 J	
						Selenium	CRDL Standard %R	129.0%	80% to 120%	0.0107 J	
						Silver	CRDL Standard %R	144.0%	80% to 120%	0.00317 J	
						Thallium	CRDL Standard %R	156.0%	80% to 120%	ND(0.0100) J	
						Zinc	CRDL Standard %R	121.0%	80% to 120%	0.00802 J	
G135-435	RAA9-A14 (0 - 1)	6/6/2007	Soil	Tier II	Yes	Antimony	MS/MSD %R	41.9%, 46.0%	75% to 125%	ND(4.62) J	
						Antimony	Method Blank	-	-	ND(4.62)	
						Beryllium	CRDL Standard %R	47.6%	80% to 120%	ND(1.15) J	
						Cadmium	CRDL Standard %R	200.0%	80% to 120%	ND(1.15) J	
						Cadmium	Method Blank	-	-	ND(1.15)	
						Selenium	MS %R	73.7%	75% to 125%	ND(2.31) J	
						Selenium	CRDL Standard %R	129.0%	80% to 120%	ND(2.31) J	
						Silver	CRDL Standard %R	144.0%	80% to 120%	ND(1.15) J	
						Silver	Method Blank	-	-	ND(1.15)	
						Thallium	CRDL Standard %R	156.0%	80% to 120%	1.25 J	
						Zinc	MS/MSD %R	137.0%, 71.5%	75% to 125%	62.5 J	
G135-435	RAA9-B11 (1 - 6)	6/6/2007	Soil	Tier II	Yes	Antimony	MS/MSD %R	41.9%, 46.0%	75% to 125%	ND(3.74) J	
						Antimony	Method Blank	-	-	ND(3.74)	
						Beryllium	CRDL Standard %R	47.6%	80% to 120%	ND(0.934) J	
						Cadmium	CRDL Standard %R	200.0%	80% to 120%	1.06 J	
						Selenium	CRDL Standard %R	129.0%	80% to 120%	ND(1.87) J	
						Selenium	MS %R	73.7%	75% to 125%	ND(1.87) J	
						Silver	CRDL Standard %R	144.0%	80% to 120%	ND(0.934) J	
						Silver	Method Blank	-	-	ND(0.934)	
						Thallium	CRDL Standard %R	156.0%	80% to 120%	ND(0.934) J	
						Zinc	MS/MSD %R	137.0%, 71.5%	75% to 125%	65.2 J	
G135-435	RAA9-G25 (0 - 1)	6/6/2007	Soil	Tier II	Yes	Antimony	MS/MSD %R	41.9%, 46.0%	75% to 125%	ND(4.61) J	
						Antimony	Method Blank	-	-	ND(4.61)	
						Beryllium	CRDL Standard %R	47.6%	80% to 120%	ND(1.15) J	
						Cadmium	CRDL Standard %R	200.0%	80% to 120%	ND(1.15) J	
						Cadmium	Method Blank	-	-	ND(1.15)	
						Selenium	CRDL Standard %R	129.0%	80% to 120%	ND(2.31) J	
						Selenium	MS %R	73.7%	75% to 125%	ND(2.31) J	
						Silver	CRDL Standard %R	144.0%	80% to 120%	ND(1.15) J	
						Silver	Method Blank	-	-	ND(1.15)	
						Thallium	CRDL Standard %R	156.0%	80% to 120%	0.955 J	
						Zinc	MS/MSD %R	137.0%, 71.5%	75% to 125%	87.7 J	
G135-435	RAA9-I2 (0 - 1)	6/6/2007	Soil	Tier II	Yes	Antimony	MS/MSD %R	41.9%, 46.0%	75% to 125%	ND(4.06) J	
						Antimony	Method Blank	-	-	ND(4.06)	
						Beryllium	CRDL Standard %R	47.6%	80% to 120%	0.581 J	
						Cadmium	CRDL Standard %R	200.0%	80% to 120%	ND(1.02) J	
						Cadmium	Method Blank	-	-	ND(1.02)	
						Selenium	CRDL Standard %R	129.0%	80% to 120%	ND(2.03) J	
						Selenium	MS %R	73.7%	75% to 125%	ND(2.03) J	
						Silver	CRDL Standard %R	144.0%	80% to 120%	ND(1.02) J	
						Silver	Method Blank	-	-	ND(1.02)	
						Thallium	CRDL Standard %R	156.0%	80% to 120%	ND(1.02) J	
						Zinc	MS/MSD %R	137.0%, 71.5%	75% to 125%	125 J	
G135-438	RAA9-A13 (6 - 15)	6/7/2007	Soil	Tier II	Yes	Barium	CRDL Standard %R	126.0%	80% to 120%	26.2 J	
						Beryllium	CRDL Standard %R	143.0%	80% to 120%	ND(1.19) J	
						Beryllium	Method Blank	-	-	ND(1.19)	
G135-438	RAA9-D7 (6 - 15)	6/7/2007	Soil	Tier II	Yes	Antimony	Method Blank	-	-	ND(4.13)	
						Barium	CRDL Standard %R	126.0%	80% to 120%	20.5 J	
						Beryllium	CRDL Standard %R	143.0%	80% to 120%	ND(1.03) J	
						Tin	CRDL Standard %R	164.0%	80% to 120%	ND(1.03) J	
G135-438	RAA9-D9 (1 - 6)	6/7/2007	Soil	Tier II	Yes	Barium	CRDL Standard %R	126.0%	80% to 120%	16.9 J	
						Beryllium	CRDL Standard %R	143.0%	80% to 120%	ND(1.21) J	
						Tin	CRDL Standard %R	164.0%	80% to 120%	ND(1.21) J	

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Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Metals (continued)											
G135-438	RAA9-I6 (1 - 6)	6/7/2007	Soil	Tier II	Yes	Antimony	Method Blank	-	-	ND(3.83)	
						Barium	CRDL Standard %R	126.0%	80% to 120%	25.1 J	
						Beryllium	CRDL Standard %R	143.0%	80% to 120%	ND(0.957)J	
						Beryllium	Method Blank	-	-	ND(0.957)	
						Selenium	Method Blank	-	-	ND(1.91)	
						Thallium	CRDL Standard %R	128.0%	80% to 120%	ND(0.957) J	
						Tin	CRDL Standard %R	164.0%	80% to 120%	ND(0.957) J	
VOCs											
G135-434	RAA-07-DUP-2 (4 - 6)	6/5/2007	Soil	Tier II	Yes	1,2-Dibromo-3-chloropropane	LCS %R	18.5%	67.4% to 133%	ND(0.026) J	Parent sample RAA9-E5
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(5.3) J	
						2-Butanone	CCAL %D	36.5%	<25%	ND(0.0053) J	
						2-Chloroethylvinylether	ICAL RRF	0.015	>0.05	ND(0.026) J	
						2-Chloroethylvinylether	CCAL %D	26.7%	<25%	ND(0.026) J	
						2-Hexanone	CCAL %D	35.0%	<25%	ND(0.0053) J	
						2-Hexanone	LCS %R	33.8%	61.2% to 139%	ND(0.0053) J	
						4-Methyl-2-pentanone	LCS %R	43.1%	65.1% to 135%	ND(0.0053) J	
						Acetone	CCAL %D	46.2%	<25%	ND(0.0053) J	
						Acetonitrile	ICAL RRF	0.005	>0.05	ND(1.1) J	
						Acrolein	ICAL RRF	0.042	>0.05	ND(0.065) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(2.6) J	
						Methylene Chloride	Method Blank	-	-	0.02	
						Methylene Chloride	CCAL %D	49.3%	<25%	0.020 J	
						Methylene Chloride	LCS %R	157.0%	57.9% to 142%	0.020 J	
						Propionitrile	ICAL RRF	0.007	>0.05	ND(1.1) J	
						trans-1,4-Dichloro-2-butene	LCS %R	20.1%	69.5% to 130%	ND(0.011) J	
G135-434	RAA9-C9 (0 - 1)	6/5/2007	Soil	Tier II	Yes	1,2-Dibromo-3-chloropropane	LCS %R	18.5%	67.4% to 133%	ND(0.031) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(6.2) J	
						2-Butanone	CCAL %D	36.5%	<25%	ND(0.0062) J	
						2-Chloroethylvinylether	ICAL RRF	0.015	>0.05	ND(0.031) J	
						2-Chloroethylvinylether	CCAL %D	26.7%	<25%	ND(0.031) J	
						2-Hexanone	CCAL %D	35.0%	<25%	ND(0.0062) J	
						2-Hexanone	LCS %R	33.8%	61.2% to 139%	ND(0.0062) J	
						4-Methyl-2-pentanone	LCS %R	43.1%	65.1% to 135%	ND(0.0062) J	
						Acetone	CCAL %D	46.2%	<25%	0.026 J	
						Acetonitrile	ICAL RRF	0.005	>0.05	ND(1.2) J	
						Acrolein	ICAL RRF	0.042	>0.05	ND(0.076) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(3.1) J	
						Methylene Chloride	Method Blank	-	-	0.011	
						Methylene Chloride	CCAL %D	49.3%	<25%	0.011 J	
						Methylene Chloride	LCS %R	157.0%	57.9% to 142%	0.011 J	
						Propionitrile	ICAL RRF	0.007	>0.05	ND(1.2) J	
						trans-1,4-Dichloro-2-butene	LCS %R	20.1%	69.5% to 130%	ND(0.013) J	
G135-434	RAA9-E5 (4 - 6)	6/5/2007	Soil	Tier II	Yes	1,2-Dibromo-3-chloropropane	LCS %R	18.5%	67.4% to 133%	ND(0.028) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(5.6) J	
						2-Butanone	CCAL %D	36.5%	<25%	ND(0.0056) J	
						2-Chloroethylvinylether	ICAL RRF	0.015	>0.05	ND(0.028) J	
						2-Chloroethylvinylether	CCAL %D	26.7%	<25%	ND(0.028) J	
						2-Hexanone	CCAL %D	35.0%	<25%	ND(0.0056) J	
						2-Hexanone	LCS %R	33.8%	61.2% to 139%	ND(0.0056) J	
						4-Methyl-2-pentanone	LCS %R	43.1%	65.1% to 135%	ND(0.0056) J	
						Acetone	CCAL %D	46.2%	<25%	ND(0.0056) J	
						Acetonitrile	ICAL RRF	0.005	>0.05	ND(1.1) J	
						Acrolein	ICAL RRF	0.042	>0.05	ND(0.068) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(2.8) J	
						Methylene Chloride	Method Blank	-	-	ND(0.0056) J	
						Methylene Chloride	CCAL %D	49.3%	<25%	ND(0.0056) J	
						Methylene Chloride	LCS %R	157.0%	57.9% to 142%	ND(0.0056) J	
						Propionitrile	ICAL RRF	0.007	>0.05	ND(1.1) J	
						trans-1,4-Dichloro-2-butene	LCS %R	20.1%	69.5% to 130%	ND(0.012) J	
G135-434	RAA9-F3 (0 - 1)	6/5/2007	Soil	Tier II	Yes	1,2-Dibromo-3-chloropropane	LCS %R	18.5%	67.4% to 133%	ND(0.026) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(5.3) J	
						2-Butanone	CCAL %D	36.5%	<25%	0.0060 J	
						2-Chloroethylvinylether	ICAL RRF	0.015	>0.05	ND(0.026) J	
						2-Chloroethylvinylether	CCAL %D	26.7%	<25%	ND(0.026) J	

Table B - 1
Analytical Data Validation Summary

Third Supplemental Data Letter
Hill 78 Area-Remainder
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
G135-434	RAA9-F3 (0 - 1)	6/5/2007	Soil	Tier II	Yes	2-Hexanone	CCAL %D	35.0%	<25%	ND(0.0053) J	
						2-Hexanone	LCS %R	33.8%	61.2% to 139%	ND(0.0053) J	
						4-Methyl-2-pentanone	LCS %R	43.1%	65.1% to 135%	ND(0.0053) J	
						Acetone	CCAL %D	46.2%	<25%	0.038 J	
						Acetonitrile	ICAL RRF	0.005	>0.05	ND(1.1) J	
						Acrolein	ICAL RRF	0.042	>0.05	ND(0.065) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(2.6) J	
						Methylene Chloride	Method Blank	-	-	ND(0.0053) J	
						Methylene Chloride	CCAL %D	49.3%	<25%	ND(0.0053) J	
						Methylene Chloride	LCS %R	157.0%	57.9% to 142%	ND(0.0053) J	
						Propionitrile	ICAL RRF	0.007	>0.05	ND(1.1) J	
						trans-1,4-Dichloro-2-butene	LCS %R	20.1%	69.5% to 130%	ND(0.011) J	
G135-435	RAA9-07-RB-2	6/6/2007	Water	Tier II	Yes	1,2,3-Trichloropropane	LCS %R	10.0%	61.5% to 138%	ND(0.0010) J	
						1,2,3-Trichloropropane	LCS/LCSD RPD	165.0%	<30%	ND(0.0010) J	
						1,2-Dibromo-3-chloropropane	ICAL RRF	0.035	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						Acetone	LCS %R	0.478	50.8% to 149%	0.0050 J	
						Acetone	ICAL RRF	0.029	>0.05	0.0050 J	
						Acetone	CCAL %D	60.8%	<25%	0.0050 J	
						Acetonitrile	ICAL RRF	0.003	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.013	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.035	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.004	>0.05	ND(0.050) J	
						Propionitrile	ICAL RRF	0.005	>0.05	ND(0.020) J	
						Tetrachloroethene	CCAL %D	34.2%	<25%	ND(0.0010) J	
G135-435	RAA9-A14 (0 - 1)	6/6/2007	Soil	Tier II	Yes	1,1-Dichloroethane	MS/MSD %R	67.4%, 70.2%	71.6% to 139%	ND(0.0063) J	
						1,2-Dibromo-3-chloropropane	LCS/LCSD %R	24.1%, 21.2%	67.4% to 133%	ND(0.032) J	
						1,2-Dibromo-3-chloropropane	MS/MSD %R	18.3%, 19.0%	43.4% to 229%	ND(0.032) J	
						1,2-Dichloroethane	MS/MSD %R	68.7%, 70.5%	72.9% to 146%	ND(0.0063) J	
						1,2-Dichloropropane	MS/MSD %R	70.6%, 72.7%	76.1 to 136%	ND(0.0063) J	
						1,2-Dichloropropane	MS %R	82.9%	83.2% to 137%	ND(0.0063) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(6.3) J	
						2-Chloroethylvinylether	ICAL RRF	0.015	>0.05	ND(0.032) J	
						2-Hexanone	CCAL %D	26.5%	<25%	ND(0.0063) J	
						Acetone	CCAL %D	48.0%	<25%	0.032 J	
						Acetone	LCS %R	47.8%	50.8% to 149%	0.032 J	
						Acetonitrile	ICAL RRF	0.005	>0.05	ND(1.3) J	
						Acrolein	ICAL RRF	0.042	>0.05	ND(0.078) J	
						Bromodichloromethane	MS/MSD %R	69.4%, 71.2%	77.4% to 140%	ND(0.0063) J	
						Chloroform	MS/MSD %R	66.7%, 69.6%	71.1% to 143%	ND(0.0063) J	
						Chloromethane	MS/MSD %R	61.2%, 59.4%	69.1% to 138%	ND(0.0063) J	
						cis-1,3-Dichloropropene	MS %R	71.3%	72.1% to 146%	ND(0.0063) J	
						Dichlorodifluoromethane	MS/MSD %R	62.1%, 61.2%	81.6% to 130%	ND(0.0063) J	
						Ethylbenzene	MS %R	67.6%	68.5% to 135%	ND(0.0063) J	
						Iodomethane	CCAL %D	40.5%	<25%	ND(0.0063) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(3.2) J	
						Propionitrile	ICAL RRF	0.007	>0.05	ND(1.3) J	
						Styrene	MS %R	62.4%	65.7% to 133%	ND(0.0063) J	
						trans-1,3-Dichloropropene	MS/MSD %R	70.0%	72.5% to 152%	ND(0.0063) J	
						trans-1,4-Dichloro-2-butene	LCS/LCSD %R	21.2%, 19.8%	69.5% to 130%	ND(0.014) J	
						trans-1,4-Dichloro-2-butene	MS/MSD %R	17.2%, 17.5%	48.9% to 211%	ND(0.014) J	
						Vinyl Chloride	MS/MSD %R	68.8%, 66.6%	80.9% to 129%	ND(0.0063) J	
G135-435	RAA9-B11 (1 - 3)	6/6/2007	Soil	Tier II	Yes	1,2-Dibromo-3-chloropropane	LCS/LCSD %R	24.1%, 21.2%	67.4% to 133%	ND(0.019) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(3.7) J	
						2-Chloroethylvinylether	ICAL RRF	0.015	>0.05	ND(0.019) J	
						2-Hexanone	CCAL %D	26.5%	<25%	ND(0.0037) J	
						Acetone	CCAL %D	48.0%	<25%	0.0042 J	
						Acetone	LCS %R	47.8%	50.8% to 149%	0.0042 J	
						Acetonitrile	ICAL RRF	0.005	>0.05	ND(0.75) J	
						Acrolein	ICAL RRF	0.042	>0.05	ND(0.046) J	
						Iodomethane	CCAL %D	40.5%	<25%	ND(0.0037) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(1.9) J	
						Propionitrile	ICAL RRF	0.007	>0.05	ND(0.75) J	
						trans-1,4-Dichloro-2-butene	LCS/LCSD %R	21.2%, 19.8%	69.5% to 130%	ND(0.0080) J	

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Analytical Data Validation Summary

Third Supplemental Data Letter
Hill 78 Area-Remainder
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
G135-435	RAA9-G25 (0 - 1)	6/6/2007	Soil	Tier II	Yes	1,2-Dibromo-3-chloropropane	LCS/LCSD %R	24.1%, 21.2%	67.4% to 133%	ND(0.026) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(5.1) J	
						2-Chloroethylvinylether	ICAL RRF	0.015	>0.05	ND(0.026) J	
						2-Hexanone	CCAL %D	26.5%	<25%	ND(0.0051) J	
						Acetone	LCS %R	47.8%	50.8% to 149%	0.047 J	
						Acetone	CCAL %D	48.0%	<25%	0.047 J	
						Acetonitrile	ICAL RRF	0.005	>0.05	ND(1.0) J	
						Acrolein	ICAL RRF	0.042	>0.05	ND(0.063) J	
						Iodomethane	CCAL %D	40.5%	<25%	ND(0.0051) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(2.6) J	
						Propionitrile	ICAL RRF	0.007	>0.05	ND(1.0) J	
						trans-1,4-Dichloro-2-butene	LCS/LCSD %R	21.2%, 19.8%	69.5% to 130%	ND(0.011) J	
G135-435	RAA9-I2 (0 - 1)	6/6/2007	Soil	Tier II	Yes	1,2-Dibromo-3-chloropropane	LCS/LCSD %R	24.1%, 21.2%	67.4% to 133%	ND(0.021) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(4.2) J	
						2-Chloroethylvinylether	ICAL RRF	0.015	>0.05	ND(0.021) J	
						2-Hexanone	CCAL %D	26.5%	<25%	ND(0.0042) J	
						Acetone	LCS %R	47.8%	50.8% to 149%	0.023 J	
						Acetone	CCAL %D	48.0%	<25%	0.023 J	
						Acetonitrile	ICAL RRF	0.005	>0.05	ND(0.85) J	
						Acrolein	ICAL RRF	0.042	>0.05	ND(0.052) J	
						Iodomethane	CCAL %D	40.5%	<25%	ND(0.0042) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(2.1) J	
						Propionitrile	ICAL RRF	0.007	>0.05	ND(0.85) J	
						trans-1,4-Dichloro-2-butene	LCS/LCSD %R	21.2%, 19.8%	69.5% to 130%	ND(0.0091) J	
G135-438	RAA9-A13 (8 - 10)	6/7/2007	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(5.1) J	
						2-Chloroethylvinylether	ICAL RRF	0.045	>0.05	ND(0.025) J	
						Acetonitrile	ICAL RRF	0.004	>0.05	ND(1.0) J	
						Acrolein	ICAL RRF	0.031	>0.05	ND(0.063) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(2.5) J	
						Propionitrile	ICAL RRF	0.007	>0.05	ND(1.0) J	
						trans-1,4-Dichloro-2-butene	LCS/LCSD %R	19.6%, 18.3%	69.5 to 130%	ND(0.011) J	
G135-438	RAA9-D7 (10 - 12)	6/7/2007	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(5.3) J	
						2-Chloroethylvinylether	ICAL RRF	0.045	>0.05	ND(0.027) J	
						Acetonitrile	ICAL RRF	0.004	>0.05	ND(1.1) J	
						Acrolein	ICAL RRF	0.031	>0.05	ND(0.065) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(2.7) J	
						Propionitrile	ICAL RRF	0.007	>0.05	ND(1.1) J	
						trans-1,4-Dichloro-2-butene	LCS/LCSD %R	19.6%, 18.3%	69.5 to 130%	ND(0.011) J	
G135-438	RAA9-D9 (4 - 6)	6/7/2007	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(4.5) J	
						2-Chloroethylvinylether	ICAL RRF	0.045	>0.05	ND(0.022) J	
						Acetonitrile	ICAL RRF	0.004	>0.05	ND(0.89) J	
						Acrolein	ICAL RRF	0.031	>0.05	ND(0.055) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(2.2) J	
						Propionitrile	ICAL RRF	0.007	>0.05	ND(0.89) J	
						trans-1,4-Dichloro-2-butene	LCS/LCSD %R	19.6%, 18.3%	69.5 to 130%	ND(0.0095) J	
G135-438	RAA9-I6 (2 - 4)	6/7/2007	Soil	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(5.0) J	
						2-Chloroethylvinylether	ICAL RRF	0.045	>0.05	ND(0.025) J	
						Acetonitrile	ICAL RRF	0.004	>0.05	ND(0.99) J	
						Acrolein	ICAL RRF	0.031	>0.05	ND(0.061) J	
						Isobutanol	ICAL RRF	0.006	>0.05	ND(2.5) J	
						Propionitrile	ICAL RRF	0.007	>0.05	ND(0.99) J	
						trans-1,4-Dichloro-2-butene	LCS/LCSD %R	19.6%, 18.3%	69.5 to 130%	ND(0.011) J	
SVOCs											
G135-434	RAA-07-DUP-3 (1 - 6)	6/5/2007	Soil	Tier II	Yes	1-Naphthylamine	CCAL %D	73.4%	<25%	ND(1.7) J	Parent sample RAA9-E5
						2-Acetylaminofluorene	CCAL %D	36.9%	<25%	ND(0.68) J	
						2-Naphthylamine	CCAL %D	64.4%	<25%	ND(1.7) J	
						3-Methylcholanthrene	CCAL %D	45.7%	<25%	ND(0.34) J	
						4-Nitrophenol	CCAL %D	44.0%	<25%	ND(1.7) J	
						4-Nitroquinoline-1-oxide	CCAL %D	75.0%	<25%	ND(1.7) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.032	>0.05	ND(1.7) J	
						a,a'-Dimethylphenethylamine	ICAL RRF	0.012	>0.05	ND(1.7) J	
						Aniline	CCAL %D	34.9%	<25%	ND(0.34) J	
						Aramite	CCAL %D	33.3%	<25%	ND(0.34) J	
						Aramite	ICAL RRF	0.003	>0.05	ND(0.34) J	

Table B - 1
Analytical Data Validation Summary

Third Supplemental Data Letter
Hill 78 Area-Remainder
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
G135-434	RAA-07-DUP-3 (1 - 6)	6/5/2007	Soil	Tier II	Yes	Benzidine	CCAL %D	70.4%	<25%	ND(0.68) J	
						Hexachlorocyclopentadiene	CCAL %D	36.4%	<25%	ND(0.68) J	
						Hexachloropropene	CCAL %D	28.2%	<25%	ND(0.68) J	
						Methapyrilene	CCAL %D	99.3%	<25%	ND(0.34) J	
						o-Toluidine	CCAL %D	93.2%	<25%	ND(0.34) J	
G135-434	RAA9-C9 (0 - 1)	6/5/2007	Soil	Tier II	Yes	1-Naphthylamine	CCAL %D	73.4%	<25%	ND(2.0) J	
						2-Acetylaminofluorene	CCAL %D	36.9%	<25%	ND(0.78) J	
						2-Naphthylamine	CCAL %D	64.4%	<25%	ND(2.0) J	
						3-Methylcholanthrene	CCAL %D	45.7%	<25%	ND(0.39) J	
						4-Nitrophenol	CCAL %D	44.0%	<25%	ND(2.0) J	
						4-Nitroquinoline-1-oxide	CCAL %D	75.0%	<25%	ND(2.0) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.032	>0.05	ND(2.0) J	
						a,a'-Dimethylphenethylamine	ICAL RRF	0.012	>0.05	ND(2.0) J	
						Aniline	CCAL %D	34.9%	<25%	ND(0.39) J	
						Aramite	CCAL %D	33.3%	<25%	ND(0.39) J	
						Aramite	ICAL RRF	0.003	>0.05	ND(0.39) J	
						Benzidine	CCAL %D	70.4%	<25%	ND(0.78) J	
						Hexachlorocyclopentadiene	CCAL %D	36.4%	<25%	ND(0.78) J	
						Hexachloropropene	CCAL %D	28.2%	<25%	ND(0.78) J	
						Methapyrilene	CCAL %D	99.3%	<25%	ND(0.39) J	
						o-Toluidine	CCAL %D	93.2%	<25%	ND(0.39) J	
G135-434	RAA9-E5 (1 - 6)	6/5/2007	Soil	Tier II	Yes	1-Naphthylamine	CCAL %D	73.4%	<25%	ND(1.7) J	
						2-Acetylaminofluorene	CCAL %D	36.9%	<25%	ND(0.67) J	
						2-Naphthylamine	CCAL %D	64.4%	<25%	ND(1.7) J	
						3-Methylcholanthrene	CCAL %D	45.7%	<25%	ND(0.34) J	
						4-Nitrophenol	CCAL %D	44.0%	<25%	ND(1.7) J	
						4-Nitroquinoline-1-oxide	CCAL %D	75.0%	<25%	ND(1.7) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.032	>0.05	ND(1.7) J	
						a,a'-Dimethylphenethylamine	ICAL RRF	0.012	>0.05	ND(1.7) J	
						Aniline	CCAL %D	34.9%	<25%	ND(0.34) J	
						Aramite	CCAL %D	33.3%	<25%	ND(0.34) J	
						Aramite	ICAL RRF	0.003	>0.05	ND(0.34) J	
						Benzidine	CCAL %D	70.4%	<25%	ND(0.67) J	
						Hexachlorocyclopentadiene	CCAL %D	36.4%	<25%	ND(0.67) J	
						Hexachloropropene	CCAL %D	28.2%	<25%	ND(0.67) J	
						Methapyrilene	CCAL %D	99.3%	<25%	ND(0.34) J	
						o-Toluidine	CCAL %D	93.2%	<25%	ND(0.34) J	
G135-434	RAA9-F3 (0 - 1)	6/5/2007	Soil	Tier II	Yes	1-Naphthylamine	CCAL %D	73.4%	<25%	ND(1.7) J	
						2-Acetylaminofluorene	CCAL %D	36.9%	<25%	ND(0.66) J	
						2-Naphthylamine	CCAL %D	64.4%	<25%	ND(1.7) J	
						3-Methylcholanthrene	CCAL %D	45.7%	<25%	ND(0.33) J	
						4-Nitrophenol	CCAL %D	44.0%	<25%	ND(1.7) J	
						4-Nitroquinoline-1-oxide	CCAL %D	75.0%	<25%	ND(1.7) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.032	>0.05	ND(1.7) J	
						a,a'-Dimethylphenethylamine	ICAL RRF	0.012	>0.05	ND(1.7) J	
						Aniline	CCAL %D	34.9%	<25%	ND(0.33) J	
						Aramite	CCAL %D	33.3%	<25%	ND(0.33) J	
						Aramite	ICAL RRF	0.003	>0.05	ND(0.33) J	
						Benzidine	CCAL %D	70.4%	<25%	ND(0.66) J	
						Hexachlorocyclopentadiene	CCAL %D	36.4%	<25%	ND(0.66) J	
						Hexachloropropene	CCAL %D	28.2%	<25%	ND(0.66) J	
						Methapyrilene	CCAL %D	99.3%	<25%	ND(0.33) J	
						o-Toluidine	CCAL %D	93.2%	<25%	ND(0.33) J	
G135-435	RAA9-07-RB-2	6/6/2007	Water	Tier II	Yes	1-Naphthylamine	CCAL %D	74.0%	<25%	ND(0.050) J	
						2-Acetylaminofluorene	CCAL %D	43.7%	<25%	ND(0.020) J	
						2-Naphthylamine	CCAL %D	82.8%	<25%	ND(0.050) J	
						3-Methylcholanthrene	CCAL %D	49.3%	<25%	ND(0.010) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.032	>0.05	ND(0.050) J	
						4-Nitroquinoline-1-oxide	CCAL %D	68.8%	<25%	ND(0.050) J	
						a,a'-Dimethylphenethylamine	ICAL RRF	0.012	>0.05	ND(0.050) J	
						a,a'-Dimethylphenethylamine	CCAL %D	91.7%	<25%	ND(0.050) J	
						Aniline	CCAL %D	29.9%	<25%	ND(0.010) J	
						Aramite	ICAL RRF	0.003	>0.05	ND(0.010) J	
						Benzidine	CCAL %D	80.6%	<25%	ND(0.020) J	

Table B - 1
Analytical Data Validation Summary

Third Supplemental Data Letter
Hill 78 Area-Remainder
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
G135-435	RAA9-07-RB-2	6/6/2007	Water	Tier II	Yes	Dibenzo(a,h)anthracene	CCAL %D	30.8%	<25%	ND(0.010) J	
						Methapyrilene	CCAL %D	83.1%	<25%	ND(0.010) J	
						Nitrobenzene	LCS %R	3.1%	56.2% to 117%	R	
						o-Toluidine	CCAL %D	93.1%	<25%	ND(0.010) J	
G135-435	RAA9-A14 (0 - 1)	6/6/2007	Soil	Tier II	Yes	1-Naphthylamine	CCAL %D	74.0%	<25%	ND(1.8) J	
						2-Acetylaminofluorene	CCAL %D	43.7%	<25%	ND(0.71) J	
						2-Naphthylamine	CCAL %D	82.8%	<25%	ND(1.8) J	
						3-Methylcholanthrene	CCAL %D	49.3%	<25%	ND(0.36) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.032	>0.05	ND(1.8) J	
						4-Nitroquinoline-1-oxide	CCAL %D	68.8%	<25%	ND(1.8) J	
						a,a'-Dimethylphenethylamine	ICAL RRF	0.012	>0.05	ND(1.8) J	
						a,a'-Dimethylphenethylamine	CCAL %D	91.7%	<25%	ND(1.8) J	
						Aniline	CCAL %D	29.9%	<25%	ND(0.36) J	
						Aramite	ICAL RRF	0.003	>0.05	ND(0.36) J	
						Benzidine	CCAL %D	80.6%	<25%	ND(0.71) J	
						Benzo(k)fluoranthene	LCS %R	82.2%	85.3% to 142%	ND(0.36) J	
						Dibenzo(a,h)anthracene	CCAL %D	30.8%	<25%	ND(0.36) J	
						Methapyrilene	CCAL %D	83.1%	<25%	ND(0.36) J	
						o-Toluidine	CCAL %D	93.1%	<25%	ND(0.36) J	
G135-435	RAA9-B11 (1 - 6)	6/6/2007	Soil	Tier II	Yes	1-Naphthylamine	CCAL %D	74.0%	<25%	ND(1.7) J	
						2-Acetylaminofluorene	CCAL %D	43.7%	<25%	ND(0.68) J	
						2-Naphthylamine	CCAL %D	82.8%	<25%	ND(1.7) J	
						3-Methylcholanthrene	CCAL %D	49.3%	<25%	ND(0.34) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.032	>0.05	ND(1.7) J	
						4-Nitroquinoline-1-oxide	CCAL %D	68.8%	<25%	ND(1.7) J	
						a,a'-Dimethylphenethylamine	ICAL RRF	0.012	>0.05	ND(1.7) J	
						a,a'-Dimethylphenethylamine	CCAL %D	91.7%	<25%	ND(1.7) J	
						Aniline	CCAL %D	29.9%	<25%	ND(0.34) J	
						Aramite	ICAL RRF	0.003	>0.05	ND(0.34) J	
						Benzidine	CCAL %D	80.6%	<25%	ND(0.68) J	
						Benzo(k)fluoranthene	LCS %R	82.2%	85.3% to 142%	ND(0.34) J	
						Dibenzo(a,h)anthracene	CCAL %D	30.8%	<25%	ND(0.34) J	
						Dibenzo(a,h)anthracene	MSD %R	36.8%	62.0% to 122%	ND(0.34) J	
						Methapyrilene	CCAL %D	83.1%	<25%	ND(0.34) J	
						o-Toluidine	CCAL %D	93.1%	<25%	ND(0.34) J	
G135-435	RAA9-G25 (0 - 1)	6/6/2007	Soil	Tier II	Yes	1-Naphthylamine	CCAL %D	74.0%	<25%	ND(1.8) J	
						2-Acetylaminofluorene	CCAL %D	43.7%	<25%	ND(0.71) J	
						2-Naphthylamine	CCAL %D	82.8%	<25%	ND(1.8) J	
						3-Methylcholanthrene	CCAL %D	49.3%	<25%	ND(0.35) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.032	>0.05	ND(1.8) J	
						4-Nitroquinoline-1-oxide	CCAL %D	68.8%	<25%	ND(1.8) J	
						a,a'-Dimethylphenethylamine	ICAL RRF	0.012	>0.05	ND(1.8) J	
						a,a'-Dimethylphenethylamine	CCAL %D	91.7%	<25%	ND(1.8) J	
						Aniline	CCAL %D	29.9%	<25%	ND(0.35) J	
						Aramite	ICAL RRF	0.003	>0.05	ND(0.35) J	
						Benzidine	CCAL %D	80.6%	<25%	ND(0.71) J	
						Benzo(k)fluoranthene	LCS %R	82.2%	85.3% to 142%	0.62 J	
						Dibenzo(a,h)anthracene	CCAL %D	30.8%	<25%	0.40 J	
						Methapyrilene	CCAL %D	83.1%	<25%	ND(0.35) J	
						o-Toluidine	CCAL %D	93.1%	<25%	ND(0.35) J	
G135-435	RAA9-I2 (0 - 1)	6/6/2007	Soil	Tier II	Yes	1-Naphthylamine	CCAL %D	32.8%	<25%	ND(35) J	
						2-Acetylaminofluorene	CCAL %D	41.3%	<25%	ND(14) J	
						2-Naphthylamine	CCAL %D	66.7%	<25%	ND(35) J	
						3-Methylcholanthrene	CCAL %D	48.1%	<25%	ND(7.0) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.032	>0.05	ND(35) J	
						4-Nitroquinoline-1-oxide	CCAL %D	71.9%	<25%	ND(35) J	
						a,a'-Dimethylphenethylamine	ICAL RRF	0.012	>0.05	ND(35) J	
						a,a'-Dimethylphenethylamine	CCAL %D	75.0%	<25%	ND(35) J	
						Aramite	ICAL RRF	0.003	>0.05	ND(7.0) J	
						Benzidine	CCAL %D	75.5%	<25%	14 J	
						Benzo(g,h,i)perylene	CCAL %D	26.8%	<25%	19 J	
						Benzo(k)fluoranthene	LCS %R	82.2%	85.3% to 142%	18 J	
						Hexachlorophene	CCAL %D	27.9%	<25%	ND(7.0) J	
						Indeno(1,2,3-cd)pyrene	CCAL %D	25.4%	<25%	19 J	

Table B - 1
Analytical Data Validation Summary

Third Supplemental Data Letter
Hill 78 Area-Remainder
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
G135-435	RAA9-I2 (0 - 1)	6/6/2007	Soil	Tier II	Yes	o-Toluidine	CCAL %D	92.9%	<25%	ND(7.0) J	
G135-438	RAA9-A13 (6 - 15)	6/7/2007	Soil	Tier II	Yes	1-Naphthylamine	CCAL %D	61.5%	>0.05	ND(1.9) J	
						2-Acetylaminofluorene	CCAL %D	59.1%	<25%	ND(0.75) J	
						2-Naphthylamine	CCAL %D	112.0%	<25%	ND(1.9) J	
						3,3'-Dichlorobenzidine	CCAL %D	32.4%	<25%	ND(0.75) J	
						3-Methylcholanthrene	CCAL %D	48.1%	<25%	ND(0.37) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.032	>0.05	ND(1.9) J	
						4-Nitroquinoline-1-oxide	CCAL %D	37.5%	<25%	ND(1.9) J	
						a,a'-Dimethylphenethylamine	ICAL RRF	0.012	>0.05	ND(1.9) J	
						a,a'-Dimethylphenethylamine	CCAL %D	83.3%	<25%	ND(1.9) J	
						Aramite	ICAL RRF	0.003	>0.05	ND(0.37) J	
						Benzidine	CCAL %D	48.0%	<25%	ND(0.75) J	
						Benzo(k)fluoranthene	LCS %R	82.2%	85.3% to 142%	ND(0.37) J	
						Dibenzo(a,h)anthracene	CCAL %D	32.2%	<25%	ND(0.37) J	
						Indeno(1,2,3-cd)pyrene	CCAL %D	26.8%	<25%	ND(0.37) J	
						o-Toluidine	CCAL %D	93.0%	<25%	ND(0.37) J	
G135-438	RAA9-D7 (6 - 15)	6/7/2007	Soil	Tier II	Yes	1-Naphthylamine	CCAL %D	61.5%	>0.05	ND(1.7) J	
						2-Acetylaminofluorene	CCAL %D	59.1%	<25%	ND(0.68) J	
						2-Naphthylamine	CCAL %D	112.0%	<25%	ND(1.7) J	
						3,3'-Dichlorobenzidine	CCAL %D	32.4%	<25%	ND(0.68) J	
						3-Methylcholanthrene	CCAL %D	48.1%	<25%	ND(0.34) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.032	>0.05	ND(1.7) J	
						4-Nitroquinoline-1-oxide	CCAL %D	37.5%	<25%	ND(1.7) J	
						a,a'-Dimethylphenethylamine	ICAL RRF	0.012	>0.05	ND(1.7) J	
						a,a'-Dimethylphenethylamine	CCAL %D	83.3%	<25%	ND(1.7) J	
						Aramite	ICAL RRF	0.003	>0.05	ND(0.34) J	
						Benzidine	CCAL %D	48.0%	<25%	ND(0.68) J	
						Benzo(k)fluoranthene	LCS %R	82.2%	85.3% to 142%	ND(0.34) J	
						Dibenzo(a,h)anthracene	CCAL %D	32.2%	<25%	ND(0.34) J	
						Indeno(1,2,3-cd)pyrene	CCAL %D	26.8%	<25%	ND(0.34) J	
						o-Toluidine	CCAL %D	93.0%	<25%	ND(0.34) J	
G135-438	RAA9-D9 (1 - 6)	6/7/2007	Soil	Tier II	Yes	1-Naphthylamine	CCAL %D	61.5%	>0.05	ND(1.8) J	
						2-Acetylaminofluorene	CCAL %D	59.1%	<25%	ND(0.73) J	
						2-Naphthylamine	CCAL %D	112.0%	<25%	ND(1.8) J	
						3,3'-Dichlorobenzidine	CCAL %D	32.4%	<25%	ND(0.73) J	
						3-Methylcholanthrene	CCAL %D	48.1%	<25%	ND(0.37) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.032	>0.05	ND(1.8) J	
						4-Nitroquinoline-1-oxide	CCAL %D	37.5%	<25%	ND(1.8) J	
						a,a'-Dimethylphenethylamine	ICAL RRF	0.012	>0.05	ND(1.8) J	
						a,a'-Dimethylphenethylamine	CCAL %D	83.3%	<25%	ND(1.8) J	
						Aramite	ICAL RRF	0.003	>0.05	ND(0.37) J	
						Benzidine	CCAL %D	48.0%	<25%	ND(0.73) J	
						Benzo(k)fluoranthene	LCS %R	82.2%	85.3% to 142%	ND(0.37) J	
						Dibenzo(a,h)anthracene	CCAL %D	32.2%	<25%	ND(0.37) J	
						Indeno(1,2,3-cd)pyrene	CCAL %D	26.8%	<25%	ND(0.37) J	
						o-Toluidine	CCAL %D	93.0%	<25%	ND(0.37) J	
G135-438	RAA9-I6 (1 - 6)	6/7/2007	Soil	Tier II	Yes	1-Naphthylamine	CCAL %D	61.5%	>0.05	ND(1.7) J	
						2-Acetylaminofluorene	CCAL %D	59.1%	<25%	ND(0.68) J	
						2-Naphthylamine	CCAL %D	112.0%	<25%	ND(1.7) J	
						3,3'-Dichlorobenzidine	CCAL %D	32.4%	<25%	ND(0.68) J	
						3-Methylcholanthrene	CCAL %D	48.1%	<25%	ND(0.34) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.032	>0.05	ND(1.7) J	
						4-Nitroquinoline-1-oxide	CCAL %D	37.5%	<25%	ND(1.7) J	
						a,a'-Dimethylphenethylamine	ICAL RRF	0.012	>0.05	ND(1.7) J	
						a,a'-Dimethylphenethylamine	CCAL %D	83.3%	<25%	ND(1.7) J	
						Aramite	ICAL RRF	0.003	>0.05	ND(0.34) J	
						Benzidine	CCAL %D	48.0%	<25%	ND(0.68) J	
						Benzo(k)fluoranthene	LCS %R	82.2%	85.3% to 142%	ND(0.34) J	
						Dibenzo(a,h)anthracene	CCAL %D	32.2%	<25%	ND(0.34) J	
						Indeno(1,2,3-cd)pyrene	CCAL %D	26.8%	<25%	ND(0.34) J	
						o-Toluidine	CCAL %D	93.0%	<25%	ND(0.34) J	

Table B - 1
Analytical Data Validation Summary

Third Supplemental Data Letter
Hill 78 Area-Remainder
General Electric Company - Pittsfield, Massachusetts
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCDDs/PCDFs											
G135-434	RAA-07-DUP-3 (1 - 6)	6/5/2007	Soil	Tier II	No						Parent sample RAA9-E5
G135-434	RAA9-C9 (0 - 1)	6/5/2007	Soil	Tier II	No						
G135-434	RAA9-E5 (1 - 6)	6/5/2007	Soil	Tier II	No						
G135-434	RAA9-F3 (0 - 1)	6/5/2007	Soil	Tier II	No						
G135-435	RAA9-07-RB-2	6/6/2007	Water	Tier II	No						
G135-435	RAA9-A14 (0 - 1)	6/6/2007	Soil	Tier II	No						
G135-435	RAA9-B11 (1 - 6)	6/6/2007	Soil	Tier II	No						
G135-435	RAA9-G25 (0 - 1)	6/6/2007	Soil	Tier II	No						
G135-435	RAA9-I2 (0 - 1)	6/6/2007	Soil	Tier II	Yes	OCDD	Internal Standard C12-OCDD %R	23.8%	25%-150%	0.0017 J	
G135-438	RAA9-A13 (6 - 15)	6/7/2007	Soil	Tier II	No						
G135-438	RAA9-D7 (6 - 15)	6/7/2007	Soil	Tier II	No						
G135-438	RAA9-D9 (1 - 6)	6/7/2007	Soil	Tier II	No						
G135-438	RAA9-I6 (1 - 6)	6/7/2007	Soil	Tier II	No						
Cyanides/Sulfides											
G135-434	RAA-07-DUP-3 (1 - 6)	6/5/2007	Soil	Tier II	Yes	Sulfide	MS %R	51.0%	75% to 125%	ND(4.80) J	Parent sample RAA9-E5
G135-434	RAA9-C9 (0 - 1)	6/5/2007	Soil	Tier II	Yes	Sulfide	MS %R	51.0%	75% to 125%	ND(4.80) J	
G135-434	RAA9-E5 (1 - 6)	6/5/2007	Soil	Tier II	Yes	Sulfide	MS %R	51.0%	75% to 125%	ND(5.60) J	
G135-434	RAA9-F3 (0 - 1)	6/5/2007	Soil	Tier II	Yes	Sulfide	MS %R	51.0%	75% to 125%	ND(5.40) J	
G135-435	RAA9-07-RB-2	6/6/2007	Water	Tier II	No						
G135-435	RAA9-A14 (0 - 1)	6/6/2007	Soil	Tier II	Yes	Sulfide	MS %R	66.0%	75% to 125%	ND(5.80) J	
G135-435	RAA9-B11 (1 - 6)	6/6/2007	Soil	Tier II	Yes	Sulfide	MS %R	66.0%	75% to 125%	ND(5.10) J	
G135-435	RAA9-G25 (0 - 1)	6/6/2007	Soil	Tier II	Yes	Sulfide	MS %R	66.0%	75% to 125%	ND(5.80) J	
G135-435	RAA9-I2 (0 - 1)	6/6/2007	Soil	Tier II	Yes	Sulfide	MS %R	66.0%	75% to 125%	ND(5.20) J	
G135-438	RAA9-A13 (6 - 15)	6/7/2007	Soil	Tier II	No						
G135-438	RAA9-D7 (6 - 15)	6/7/2007	Soil	Tier II	No						
G135-438	RAA9-D9 (1 - 6)	6/7/2007	Soil	Tier II	No						
G135-438	RAA9-I6 (1 - 6)	6/7/2007	Soil	Tier II	No						