REPORT

Addendum to the MCP Supplemental Phase II Report for the Allendale School Property

Vol. I of III

General Electric Company
Pittsfield, Massachusetts

June 1998

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BLASLAND, BOUCK & LEE, INC.
engineers & scientists

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

Table of Contents

Section 1. Introduction 1-1

1.1 General 1-1
1.2 Background/ Investigation History 1-1
1.3 Format of Document 1-5

Section 2. Characterization of Property Soils 2-1

2.1 General 2-1
2.2 Delineation of Soil Removal Areas 2-1
2.3 Recent Surface and Near-Surface Soils Investigations 2-3
2.3.1 PCBs 2-3
2.3.2 Other Non-PCB Hazardous Constituents 2-4
2.4 Recent Subsurface Soils Investigations 2-5
2.4.1 Scope of Investigations 2-5
2.4.2 PCB Investigation Results 2-6
2.4.3 Other Non-PCB Hazardous Constituent Results 2-6
2.5 Evaluation of Geologic Characteristics 2-7
2.5.1 Fill 2-8
2.5.2 Glaciofluvial Sand and Alluvial Sediments 2-8
2.5.3 Peat 2-8
2.5.4 Till 2-9
2.5.5 Cross Sections 2-9
2.6 Extent of Affected Soil 2-10

Section 3. Groundwater Sampling and Analysis 3-1

3.1 General 3-1
3.2 Recent Groundwater Sampling and Analysis Results 3-1
3.2.1 Overview 3-1
3.2.2 Analytical Results 3-1
3.3 Evaluation of Hydrogeologic Characteristics 3-2

Section 4. Overall Evaluation of Site Data 4-1

4.1 Introduction 4-1
4.2 Summary of Recent Project Objectives 4-1
4.3 Additional Data Needs 4-5

Section 5. Evaluation of Analytical Data Validation 5-1

5.1 Introduction 5-1
5.2 Data Usability 5-1
5.3 PARCC Parameters 5-2
5.3.1 Precision 5-2

5.3.2 Accuracy 5-3
5.3.3 Representativeness 5-3
5.3.4 Completeness 5-3
5.3.5 Comparability 5-4

References

Tables

Table 1 Summary of 1998 Soil PCB Data
Table 2 Summary of 1998 Soil Appendix IX+3 Data
Table 3 Summary of 1998 Groundwater PCB Data
Table 4 Summary of 1998 Groundwater Appendix IX + 3 Data
Table 5 Summary of Water Table Elevation Data

Figures

Figure 1 Site Location
Figure 2 Existing PCB Soil Analytical Data Through September 1996
Figure 3 PCB Soil Analytical Data - October 1996
Figure 4 PCB Soil Analytical Data - April 1997
Figure 5 PCB Soil Analytical Data - April - June 1997
Figure 6 PCB Soil Analytical Data - 1998
Figure 7 Soil Analytical Data (Total VOCs, SVOCs, PCDDs, PCDFs, and pesticides/ herbicides) - 1997 - 1998
Figure 8 Soil Analytical Data (Metals, sulfide and cyanide) - 1997 - 1998
Figure 9 Cross Section A-A'
Figure 10 Cross Section B-B'
Figure 11 Cross Section C-C'
Figure 12 Summary of Horizontal Extent of PCBs in Soil
Figure 13 Groundwater Contours - March 1998

Attachments

Attachment A Subsurface Soil Boring Logs and Well Installation Reports
Attachment B Analytical Data Validation Report

Volumes II of III and III of III

Appendix A Laboratory analytical data sheets for 1998 investigations

1. Introduction

1.1 General

This *Addendum to the MCP Supplemental Phase II Report for the Allendale School Property* (Addendum) summarizes the activities performed by the General Electric Company (GE) over the last several months concerning the presence of polychlorinated biphenyls (PCBs) and other hazardous constituents at the Allendale School Property in Pittsfield, Massachusetts (Site No. 1-0960). This Addendum has been prepared consistent with the proposed activities outlined in the *MCP Supplemental Phase II Report for the Allendale School Property* (Supplemental Phase II Report), dated August 1997 (Blasland, Bouck & Lee, Inc. - BBL), as conditionally approved by the Massachusetts Department of Environmental Protection (MDEP) via letter dated December 24, 1997.

This Addendum is the third investigation report completed to date for the Allendale School Property under the provisions of the Massachusetts Contingency Plan (MCP) (310 CMR 40.0000). Two previous reports, entitled *MCP Interim Phase II Report for the Allendale School Property* (Interim Phase II Report), dated January 1993 (Blasland & Bouck Engineers, P.C. - Blasland & Bouck), and the Supplemental Phase II Report, referenced above, provide a significant volume of information toward the characterization of current site conditions, and contain information sufficient to satisfy MCP requirements concerning the investigation component of an MCP Phase II Comprehensive Site Assessment. The information previously presented in these reports is incorporated by reference herein. In addition, select figures from the prior reports have been incorporated into this Addendum, and various figures prepared as part of this Addendum also incorporate the prior analytical data.

1.2 Background/ Investigation History

As previously documented in the Supplemental Phase II Report, the Allendale School Property is located to the north of the GE facility across the Tyler Street Extension, and is bordered on the other three sides by residential areas (Figure 1). The school occupies approximately 30,000 square feet on approximately 12 acres. At the time of the school's construction in 1950, GE and the City of Pittsfield entered into an agreement under which GE allowed the City to remove soil material from GE property for use as fill material at the school property.

Concerns associated with the Allendale School Property were initially identified by the MDEP during construction of the Pittsfield Generating Company Facility (PGC Facility, formerly known as the Altresco Corporation Cogeneration Facility), located on GE property southeast of the school property. The presence of PCBs in soil at the GE property, and the available information concerning the prior use of fill material at the property, led to MDEP

concerns regarding the potential presence of PCBs in the fill at the Allendale School Property. In response, the MDEP performed a soil and surface water sampling program for this area in January 1990, from which low levels of PCBs were detected in the surficial soils in the southeast corner of the Allendale School Property. The MDEP subsequently established a PCB concentration of 2 parts per million (ppm) (dry weight) as the "level of concern" for surficial soils in this area. Two soil samples collected from the school property by the MDEP exceeded this concentration; surface water sampling results did not detect PCBs.

The detection of PCBs above 2 ppm in soils by the MDEP at the property led to several subsequent sampling events by GE to characterize the presence and extent of PCBs, as well as to assess the potential presence of other hazardous constituents at the site. These activities were conducted between April and September 1990. As a result of these investigations, GE evaluated a range of options to reduce the potential for human contact with soils containing PCBs above the MDEP's level of concern (i.e., 2 ppm). GE's evaluation was presented in a document entitled *Study of Potential Remedial Options for PCB-Containing Soils at the Allendale School Property* (Blasland & Bouck, September 1990). In a March 15, 1991 letter to GE, the MDEP conditionally approved the containment/capping option presented in that report as an MCP Short-Term Measure (STM). As conditionally approved by the MDEP, the STM involved the placement of a geotextile layer overlain with a minimum of 2 feet of "clean" soil over those areas where soil PCB concentrations exceeded 2 ppm within the top 3 feet of existing soil. In addition, improvements to the existing surface water drainage system in the area were part of the STM. The MDEP's approval conditions were incorporated into a revised version of the report entitled *Study of Potential Remedial Options for PCB-Containing Soils at the Allendale School Property* (Blasland & Bouck, April 1991). Construction activities were initiated and completed in the summer of 1991, in accordance with the STM approved by the MDEP.

In a letter dated March 6, 1992, the MDEP classified the Allendale School Property as a priority disposal site under the MCP, required that further remedial response action be performed, and required that a Scope of Work (SOW) for a Phase II Comprehensive Site Assessment be submitted. On May 4, 1992, GE submitted to the MDEP the *Allendale School Property MCP Phase II Scope of Work* (Blasland & Bouck, May 1992) to address data needs associated with the Phase II Comprehensive Site Assessment. The activities proposed in that document were conditionally approved by the MDEP in a letter dated June 30, 1992 and subsequently initiated.

In January 1993, GE submitted an Interim Phase II Report to the MDEP. On September 13, 1996, after review of that document, the MDEP directed GE to: (a) submit an Imminent Hazard Evaluation Proposal for surface and near-

surface soil sampling and analysis at the Allendale School Property to evaluate whether a potential "imminent hazard" exists; (b) submit thereafter a Supplemental Phase II SOW proposing additional investigations; and (c) upon completion of the additional investigations, submit a Supplemental Phase II Report for the property. On September 27, 1996, GE submitted an *Imminent Hazard Evaluation Proposal for the Allendale School Property* (BBL, 1996), which was conditionally approved by the MDEP in a letter dated October 10, 1996. On November 18, 1996, GE submitted the Supplemental Phase II SOW, which was conditionally approved by the MDEP in a letter dated March 5, 1997.

In support of the imminent hazard evaluation, GE collected soil samples from the surface (0- to 6-inches) and near-surface (6- to 12-inches) from 114 grid node locations based on a 50-foot grid. Concentrations of PCBs were greater than 2 ppm in only two (AS-96-76 and AS-96-80) of the 114 locations, at both the 0- to 6-inch and 6- to 12-inch intervals. None of the 114 surface samples had PCB concentrations greater than the MCP potential imminent hazard threshold of 10 ppm, and only one of the near-surface samples had a PCB concentration greater than 10 ppm (16 ppm, location AS-96-80, 6- to 12-inch interval). On December 6, 1996, GE submitted the Imminent Hazard Evaluation Report. Based on the available information, GE concluded that a potential imminent hazard as defined in the MCP (310 CMR 40.0321(2)(b)) did not exist at the schoolyard.

In April 1996, Gifford Engineering, on behalf of Barry Architects, Inc., and at the direction of the City of Pittsfield, installed seven borings within the Allendale School Property. Soil samples were collected primarily for structural purposes in support of proposed additions to the school building and were not specifically collected as part of the Phase II investigation. However, soil samples from the top 4 feet at two borings were submitted for PCB analysis. The results indicated that PCBs were not present at concentrations above 2 ppm.

In August 1996, Gifford Engineering installed 13 additional borings, again in conjunction with activities associated with proposed additions to the school building (Gifford Engineering, 1996). Soil samples were collected from the 0- to 0.5-foot and 0.5- to 2-foot depth intervals, and thereafter in 2-foot increments to depths of up to 10 feet. Analytical results from the 52 samples collected indicated PCB concentrations less than 2 ppm, with the exception of 4 subsurface samples, which had PCB concentrations ranging from 2.7 to 24 ppm.

In April 1997, GE advanced 26 additional soil borings in the vicinity of the proposed building expansion prior to the start of the City of Pittsfield's excavation efforts (see Figure 4). The borings were sampled at 2-foot intervals to depths at least 2-feet beyond the extent of fill as determined based on historical topographic mapping predating

the construction of the school. PCBs were not detected in 63 of the 91 samples submitted for analysis. One sample (PRE-24 at a depth of 4- to 6-feet) exhibited a PCB concentration of 11 ppm. The remaining samples in which PCBs were detected exhibited concentrations of 1 ppm or less. The soils in the general vicinity of sample PRE-24 (4- to 6-feet) were then excavated (see Figure 4). The first 3 feet of soil were removed and stockpiled for later use at the site. The next 4 feet of soil (3- to 7-foot depth interval) were removed, transported to a temporary staging area at GE Building 33 Yard, and transported to High Acres Disposal Facility in Fairport, New York. Approximately 400 tons of soil were removed as part of this excavation activity. Additionally, based on soil boring data generated by Gifford Engineering and GE (as illustrated on Figures 2 and 5) a second excavation was completed for the installation of a new 3,000 gallon grease trap and sanitary drainage pipeline located on the west side of the school (see Figure 4). The trap and pipeline were installed and clean fill was used for backfill. Approximately 300 tons of soil were excavated during this activity. All soil excavated during the installation of the trap and sanitary piping was transported to a temporary staging area at GE Building 33 Yard, and transported to High Acres Disposal Facility in Fairport, New York.

In April 1997, the City of Pittsfield removed two underground storage tanks located along the western side of the main school building on the Allendale School Property. GE collected two soil samples from locations beneath each of the former tanks at the base of the excavation. These samples were collected as grab samples from the 0- to 6-inch depth interval beneath the former tanks, and submitted for PCB analysis. The soil samples had PCB concentrations of 0.86 ppm and 0.059 ppm.

GE submitted the Supplemental Phase II Report to the MDEP on August 1, 1997. Several data needs were identified regarding the soil and groundwater results, and various activities were proposed to address them. On December 24, 1997, the MDEP conditionally approved the Supplemental Phase II Report and the additional activities proposed in that report. In addition, MDEP directed GE to: (a) submit a proposal for determining the extent of soils with PCB concentrations greater than 2 ppm along the eastern edge of the cap; (b) submit thereafter a plan indicating the area proposed for limited removal, demonstrating that upon completion, no soil containing PCB concentrations greater than 2 ppm shall remain outside of the capped area within the top three feet of the ground surface; and (c) submit a supplement including laboratory data analytical summary sheets from the 1996-1997 investigations and a summary of the data evaluation of those data sets (using the Tier I/Tier II data evaluation process outlined in the SAP/DCAQAP).

On January 22, 1998, GE submitted a report entitled *Analytical Data Validation Report for the Allendale School Property* (BBL, January 1998), that evaluated the 1996-1997 analytical data set and compiled the analytical summary data sheets. At the same time, GE also submitted a *Proposal* for *Supplemental Soil Investigation*, which was conditionally approved by the MDEP in a letter dated February 17, 1998. GE promptly initiated field activities to address data needs remaining from previous studies and to delineate the areas outside of the existing cap which would be included in limited soil removal actions. A *Remedial Action Work Plan for Limited Soil Removal at Allendale School (MCP Site No. 1-0960)* (Remedial Action Work Plan -- BBL, March 1998) was submitted in March 1998 and was conditionally approved by the MDEP in a letter dated April 9, 1998. Limited removal of 1600 cubic yards of impacted soil was performed during the week of April 20, 1998, as a continuation of the 1991 STM.

In February and March 1998, Supplemental Phase II investigation activities were performed. In general, those Supplemental Phase II activities included sampling and analysis of soils, installation of several piezometers, sampling and analysis of groundwater, and an analysis of groundwater flow at the site. In accordance with the Supplemental Phase II Report and the MDEP's December 24, 1997 conditional approval letter, this report summarizes those Supplemental Phase II activities.

1.3 Format of Document

The remainder of this Addendum summarizes each of the activities completed to date by GE, as proposed in the Supplemental Phase II Report, and as conditionally approved in subsequent correspondence from the MDEP. The results of previous and recent investigations are discussed, as appropriate, in association with data that were presented in prior reports. The remainder of this report follows a format consistent with the previous Supplemental Phase II Report. The specific contents are as follows:

- Section 2 of this document provides a summary of the supplemental soil investigations for the Allendale School Property. The soil sampling effort was conducted to further define the horizontal and vertical extent of PCBs and fill materials at the property and obtain additional information on the presence of other non-PCB hazardous constituents at the property.

- Section 3 describes the additional supplemental groundwater investigations, including the installation of several piezometers, groundwater sampling and analysis involving the new piezometers and certain existing wells, and construction of a revised groundwater table contour map.

- Section 4 provides an overall evaluation of the project objectives and an overview of the analytical results obtained during the additional investigation as they relate to the project objectives.

- Section 5 summarizes the results of analytical data validation of the sample data collected during February and March, 1998.

2. Characterization of Property Soils

2.1 General

The following sections summarize the recent supplemental investigations conducted at the Allendale School Property. Section 2.2 presents a discussion of the activities performed as part of the limited soil removal proposal. Section 2.3 presents a discussion of recent surface and near-surface soil investigations and resulting analytical data. Section 2.4 presents a discussion of recent subsurface soil investigations and associated analytical data, while Section 2.5 presents a discussion of the geological characteristics of the Allendale School Property. Section 2.6 presents an overall discussion regarding the overall extent of soil affected by PCBs and other hazardous constituents.

As noted previously in Section 1.1, much of the analytical data available to characterize the nature and extent of PCBs and other hazardous constituents at the Allendale School Property is contained in several documents. To better facilitate the review of the analytical data, several figures have been reproduced and incorporated into this document. Soil sample locations and corresponding PCB results from previous investigations are shown on Figures 2, 3, 4, and 5. Soil sample locations and corresponding PCB results for the recent investigations are shown on Figure 6, and are also summarized in Table 1. The results of other Appendix IX+3 analytical data for the recent investigations are presented in Table 2, and are presented (along with analytical results from previous investigations) on Figures 7 and 8. Figure 7 presents a summary of "total" concentrations of the various organic constituent groups detected at the Allendale School Property (i.e., total VOCs, SVOCs, PCDDS, PCDFs, and pesticides/herbicides), and Figure 8 presents a summary of the various inorganic constituents detected at the Allendale School Property.

All sampling and analysis activities were performed in accordance with GE's *Sampling and Analysis Plan/Data Collection and Analysis Quality Assurance Plan* (SAP/DCAQAP), dated May 1994, with subsequent revisions approved by the Agencies.

2.2 Delineation of Soil Removal Areas

In the cover letter accompanying the Supplemental Phase II Report, GE indicated that certain areas of the schoolyard not currently occupied by the soil cap contained PCBs greater than 2 ppm in the top 3 feet of soil. As a result, as a continuation of the STM performed in 1991, GE proposed to further investigate, remove, and replace

such soils. This offer was presented even though 1) none of the available soils data met the MCP criteria for a potential "imminent hazard", i.e., PCB concentrations greater than 10 ppm in the top 6 inches of soil at unrestricted areas within 500 feet of a school or residence (310 CMR 40.0321), and 2) given the locations and concentrations of PCBs in those soils, the soils did not pose a current risk to human health.

On January 22, 1998, GE submitted the *Proposal for Supplemental Soil Investigations*; these investigations were implemented in February 1998. GE proposed additional sampling on March 9, 1998, which was implemented on March 16, 1998 with MDEP approval. GE presented the results of the February and March 1998 soil removal investigations to the MDEP in the Remedial Action Work Plan, submitted in March 1998. The Work Plan was conditionally approved by the MDEP in a letter dated April 9, 1998. Soil removal activities took place during the week of April 20, 1998. A summary of the limited soil removal activities is provided below. A more detailed completion report will be prepared and submitted to the MDEP shortly.

Numerous soil samples were collected during the February-March 1998 investigations. For clarity, only those samples collected for the purpose of delineating the soil removal areas are discussed here. Discussions of all of the surface and subsurface soil samples collected during the recent investigations are presented in Sections 2.3 and 2.4, respectively. To delineate the limits of soil removal, 36 surface and near-surface soil samples and 26 subsurface soil samples were collected from 26 locations. The analytical results generated from these efforts are included in Tables 1 and 2, and are also shown on Figures 6, 7, and 8. Surface and near-surface soil samples were collected from the 0-0.5 foot and 0.5-1.0 foot depth intervals. Subsurface soil samples were collected from boring locations at a depth interval of 1-3 feet. As specified in the SAP/DCAQAP, all soil samples were screened with a portable ionization detector (PID), and any sample with a screening result greater than 10 PID units were submitted for analysis of VOCs. Each sample was analyzed for PCBs, and one surface sample (ASB-43, 0-0.5 feet) was analyzed for Appendix IX+3 constituents. Analytical results from previous investigations were used in conjunction with the recent activities to delineate the extent of the limited soil removal, as described in the Remedial Action Work Plan.

Excavation limits for soils outside of the existing soil cover were delineated on the basis of discrete detection of PCBs greater than 2 ppm in the top three feet of soil. Using this removal criterion, three separate removal areas were identified. The removal areas were conservatively extended outward to utilize discrete sample locations (where the corresponding PCB data was less than 2 ppm) for delineation of areas potentially exceeding 2 ppm PCBs. The removal depths within these areas ranged from 6 inches to three feet, as shown on Figure 1 of the Remedial Action Work Plan.

Following MDEP conditional approval of the proposed soil removal volumes, the limited soil removal was conducted during the week of April 20, 1998. Approximately 1600 cubic yards of soil were removed and disposed of at two off-site facilities. Approximately 250 cubic yards of soils, collected in the vicinity of sampling locations that showed greater than 50 ppm PCBs, were transported to the Chemical Waste Management (CWM) disposal facility in Model City, New York, a facility permitted under the Toxic Substance Control Act (TSCA). The remaining soils, collected from areas where the sampling results showed less than 50 ppm PCBs, were transported for disposal at High Acres disposal facility in Fairport, New York.

2.3 Recent Surface and Near-Surface Soils Investigations

This section presents a summary and discussion of the recent Supplemental MCP Phase II surficial and near-surface soil sampling activities at the Allendale School Property and the analytical data associated with these activities. This section discusses only data collected from the surface (0-0.5 feet) and near-surface (0.5-1 feet) depth intervals at the Allendale School Property. Tables 1 and 2 provide a summary of surface, near-surface, and subsurface soil sampling and analysis associated with the Allendale School Property. These data are also summarized on Figures 6, 7, and 8.

2.3.1 PCBs

As part of the recent investigation activities, 47 surface and near-surface soil samples (plus four duplicate soil samples) were collected from 27 locations outside of the existing cap (Figure 6). All samples were analyzed for PCBs. Total PCB concentrations in these samples ranged from non-detect to 49 ppm. Thirty-one samples had concentrations ranging from non-detect to less than 2 ppm PCBs, and 16 samples exhibited PCB concentrations ranging from 2 ppm to 49 ppm. (As described above, all soils outside the cap with greater than 2 ppm PCBs in the top 3 feet have now been removed and replaced with clean fill. See Figure 6.)

Additionally, very low levels of PCBs were detected in each of four soil samples collected at two locations on a residential property adjacent to the school property (Parcel K11-7-28 -- See Figure 6). Total PCB concentrations in the 0- to 0.5-foot depth interval were 0.15 ppm and 0.41 ppm. The 0.5- to 1.0-foot depth interval results showed total PCB concentrations of 0.13 ppm and 0.29 ppm.

2.3.2 Other Non-PCB Hazardous Constituents

Surface soil samples from nine locations outside of the existing cap were submitted for analysis of Appendix IX+3 constituents. VOCs were not detected in any of these soil samples. The following 11 SVOCs were detected at concentrations exceeding their CLP-required quantitation limits: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl)phthalate, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene (Table 2). Seven additional SVOCs were detected in at least one sample at estimated concentrations greater than the associated instrument detection limits, but less than the CLP-required quantitation limits. All nine samples had at least one SVOC detected in the sample; the sample from AS-98-129 generally had the highest concentrations of the detected SVOCs.

One pesticide, 4,4'-DDE, was detected at concentrations near the CLP-required quantitation limits in samples AS-98-130 (0.0045 ppm) and AS-98-131 (0.018 ppm -- estimated due to data validation qualification -- see Table 2). No other pesticides or herbicides were detected in the surface samples collected at the site during the 1998 sampling activities.

PCDDs were detected in eight of the nine surface soil samples analyzed. Total PCDD concentrations in samples with detected concentrations ranged from 0.000023 ppm to 0.00029 ppm (Table 2). PCDFs were detected in all nine samples at total PCDF concentrations ranging from 0.0000063 ppm to 0.00037 ppm.

Several inorganic constituents were detected in the surface soil samples submitted for Appendix IX+3 constituents (Table 2). A summary of all soil data collected and analyzed for inorganic constituents during the 1997 and 1998 sampling activities is shown on Figure 8. For summary purposes, discussion of these constituents will be limited throughout this report to the eight RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver). Four of these metals (arsenic, barium, chromium, and lead) were detected in all nine samples. Selenium was detected in eight of the nine samples. Mercury was also detected in all but one sample, at estimated concentrations greater than the instrument detection limit for the compound, but less than the CLP-required detection limit. Cadmium was detected in one surface sample (AS-98-128 at 0-0.5 feet depth) at a concentration of 17.0 ppm. Silver was detected in one surface sample (AS-98-128 at 0-0.5 feet depth) at a concentration of 3.5 ppm. In general, the samples collected from locations AS-98-128 and AS-98-129, in the northeast portion of the school property, showed the highest levels of detected metals. The remaining sample results were relatively

consistent across the site, and were also consistent with the sample results collected during the 1997 investigation activities at the site.

2.4 Recent Subsurface Soils Investigations

2.4.1 Scope of Investigations

As part of the soil delineation activities, soil samples were obtained from the 1-3 foot depth interval at 27 locations (ASB-35 through ASB-54, ASB-56 through ASB-61, and AS-98-134) outside the limits of the capped area. To further delineate the vertical extent of PCBs in subsurface soils at the eastern edge of the cap, two of these sampling locations were converted into borings -- boring ASB-52, with sampling at 2-foot intervals to a depth of 11 feet, and boring ASB-46/ASB-55, with sampling at 2-foot intervals to a depth of 9 feet. Nine soil borings (ASB-26 through ASB-34) were also installed within the capped area where previous borings did not completely define the vertical extent of PCBs. Soil samples were obtained from 2-foot depth intervals beginning at the base of the cap, and extending through the visually determined fill/original soil interface. To further characterize the soil near Supplemental Phase II boring ASB-3, three soil borings (ASB-23, ASB-24, and ASB-25) were installed in the vicinity of ASB-3. Soil samples were obtained in 2-foot depth intervals beginning with the 1-3 foot depth interval, and extending to a depth of 7 feet.

All samples were analyzed for PCBs. As specified in the SAP/DCAQAP, all soil samples were screened with a PID, and any samples exhibiting a screening result greater than 10 PID units were submitted for analysis of VOCs. If a boring had more than one sample with a screening result greater than 10 PID units, the sample with the highest PID reading was submitted for analysis of Appendix IX+3 constituents. In total, 83 subsurface soil samples were analyzed for PCBs, 13 samples were submitted for VOC analysis, and 12 samples were analyzed for Appendix IX+3 constituents. Upon completion, the boreholes were abandoned by placing a cement/bentonite grout seal via tremie pipe from the total boring depth to within 1 foot of the ground surface. Topsoil was then placed in the borehole up to the ground surface level. This method of cap repair was based upon previous verbal agreements between GE and the MDEP.

2.4.2 PCB Investigation Results

From the recent investigations, 54 of the 83 subsurface soil samples had either non-detectable PCB concentrations or PCB concentrations less than 2 ppm (Table 1 and Figure 6). Twenty-four samples exhibited PCB concentrations ranging from 2 ppm to 50 ppm, 19 of which were collected from within the capped area. Five samples from three capped area borings (ASB-28, 2-4 feet and 4-6 feet; ASB-31, 4-6 feet; ASB-34, 2-4 feet and 4-6 feet), and one sample from a boring outside the capped area (ASB-46, 1-3 feet) exhibited PCB concentrations greater than 50 ppm. The maximum PCB concentration measured within the limits of capped area was 440 ppm at soil boring ASB-28 (4-6 feet). The highest PCB concentration recorded in borings outside of the capped area was 94 ppm at soil boring ASB-46 (1-3 foot depth interval). (Again, as described above, all soils outside the cap with greater than 2 ppm PCBs in the top 3 feet have now been removed and replaced with clean fill -- see Figure 6.) PCB levels in the three borings conducted around previous boring ASB-3 near the southwest corner of the school building ranged from non-detect to 0.32 ppm.

2.4.3 Other Non-PCB Hazardous Constituent Results

Results for non-PCB constituents in recent subsurface sampling are presented in Table 2 and on Figures 7 and 8. Two VOCs, acetone and 2-butanone, were detected at boring ASB-27, at a depth of 6-8 feet. No VOCs were detected in the remaining samples. The following 10 SVOCs were detected at concentrations exceeding their respective CLP-required quantitation limits: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene (Table 2). Six other SVOCs were detected in at least one sample at estimated concentrations greater than the associated instrument detection limits, but less than the CLP-required quantitation limits. These SVOC compounds were detected primarily in samples from the 4-6 foot depth interval in soil borings ASB-26 and ASB-27, located along the southern boundary of the capped area. The only SVOCs detected outside of the capped area were in boring ASB-25, where eight SVOCs were observed at estimated concentrations less than their respective CLP-required quantitation limits. However, a duplicate sample taken at that location had non-detectable concentrations of SVOCs.

One pesticide, dieldrin, was detected at an estimated concentration of 0.0093 ppm in the 5-7 foot depth interval sample at boring ASB-25, installed to the southwest of the school building. (However, dieldrin was not detected

in a duplicate sample from that same location.) No other pesticides or herbicides were detected in the subsurface soil samples.

PCDDs were detected in seven of the twelve subsurface soil samples analyzed. The maximum total PCDD concentration observed was 0.0033 in sample ASB-31, 4-6 feet (Table 2). PCDFs were detected nine samples, with a maximum total PCDF concentration of 0.063 ppm in sample ASB-31, 4-6 feet (Table 2.)

Several inorganic constituents were detected in the subsurface soil samples submitted for Appendix IX+3 constituents. Six of the eight RCRA metals were detected in the subsurface soil samples. Three metals (arsenic, chromium, and lead) were detected at concentrations greater than their respective CLP-required detection limits in all 12 samples. Barium was also detected in every sample; however, four samples had barium concentrations less than the CLP-required detection limit. Selenium was detected in nine samples; however, three samples had selenium concentrations less than the CLP-required detection limit. Mercury was detected in four samples; however only one sample had a concentration greater than the CLP-required detection limit. In general, the sample results were relatively consistent across the site, and were also consistent with the sample results collected during the 1997 investigation activities at the site.

2.5 Evaluation of Geologic Characteristics

Site-specific geologic information was collected as part of previous and recent subsurface investigations at the site. All available subsurface geologic logs were evaluated and re-interpreted, as appropriate, to develop a generalized stratigraphy of the Allendale School Property that is consistent with the geologic framework of the region and adjacent areas of investigation.

Figures 2, 5, 6, and 12 show the locations of the three cross sections developed to show the generalized stratigraphy of the Allendale School Property. Figure 9 (Cross Section A-A'), Figure 10 (Cross Section B-B'), and Figure 11 (Cross Section C-C') were originally developed for the MCP Interim Phase II Report, and have been revised and updated with geologic information obtained during the recent investigations. Subsurface boring logs from the recent investigations are presented in Attachment A. Subsurface boring logs from previous investigations are contained in Attachment B to the Supplemental Phase II Report for this site (BBL, 1997).

In general, the subsurface soils encountered at the site consist of the following units from ground surface downward: 2 to 3 feet of cap material ("clean" soil and a geotextile layer); fill surficial soils; glaciofluvial sands and recent alluvial sediments; silt and organic peat; and silt, sand, and clayey silt interpreted as glacial till. These overburden units unconformably overlie meta-sedimentary bedrock. A general discussion of the site geology as encountered at the Allendale School Property is presented below.

2.5.1 Fill

Fill materials, where detected, consist primarily of brown, fine to medium sand with some areas of silt and clay. The fill material appears to have been used to elevate the ground surface in a pre-existing depression, which was located in the present area of the schoolyard. The fill thickness is generally 4 feet thick, but extends to a maximum observed depth of 11 feet below grade, and appears to decrease outside of the capped area, as depicted in the cross sections (Figures 9 through 11).

2.5.2 Glaciofluvial Sand and Alluvial Sediments

This unit is described as light brown to red-brown, fine to coarse, loose, poorly- to well-sorted sand with approximately 10 to 20 percent of fine to medium gravel and up to 20 percent silt. In the northern section of the site, the unit grades into a brown silt. In general, this unit was observed at depths extending to approximately 5 feet in the northern and western portions of the site, and was absent in the capped area of the site as shown in the cross sections (Figures 9 through 11).

2.5.3 Peat

Brown-black silt and organic peat (2- to 4-feet thick) was encountered underlying the fill material along the southern site boundary as depicted on Figure 9 (Cross Section A-A'). Figures 10 and 11 (Cross Sections B-B' and C-C') indicate that the peat unit extends north approximately 350 to 500 feet into the Allendale School Property, and is underlain by the till unit. The peat may be indicative of the marshy conditions that were previously present throughout the site (prior to the filling activities and development of the property), and still present today in certain portions of the property.

2.5.4 Till

The gray-brown silt, sand, and clayey silt, interpreted as a glacial till unit, was encountered throughout the site except where the upper surface of the unit was below the completion depth of the borings as shown in the cross sections (Figures 9 through 11). The top of the till unit was encountered at 6 feet below grade in the northern portion of the site and at approximately 11 feet below grade in the central portion of the site where the cap was constructed.

2.5.5 Cross Sections

Figure 9 (Cross Section A-A') depicts the general stratigraphy encountered along the south and southeastern boundary of the study area. A fill layer approximately 5 feet thick occurs along the southern boundary of the site thinning to the east, and not observed to the west. The fill material is underlain by the black peat and silt unit. The till unit was observed at the base of all except the western borings. Red-brown glaciofluvial sand was observed near the surface in the western portion of the site where the fill and till units were not observed.

Figure 10 (Cross Section B-B') depicts the general stratigraphy encountered along the northwestern boundary of the study area. Fill material ranging from 4 to 11 feet in thickness occurs in the central portion of the site. Fill material was not observed in the borings at the northeastern and southwestern ends of the B-B' cross section line. The red-brown glaciofluvial sand unit was observed in the northeastern and southwestern portions of the site where fill was absent. The fill material is underlain by the black peat and silt unit beneath the central to southwestern portions of the section, and the gray-brown till unit to the northeast.

The general stratigraphy encountered along the north-south trending cross section C-C' is presented on Figure 11. The cross section depicts a thin layer of fill materials approximately 2 to 4 feet thick across the majority of the site. An approximately 5-foot thick wedge of glaciofluvial sand grading to silt was observed in the northern portion of the site, where there was no evidence of the fill layer. A 1- to 3-foot thick layer of the black peat and silt unit was observed along the southern portion of the C-C' cross section line. The entire section is underlain by the till unit.

2.6 Extent of Affected Soil

The analytical data collected as part of the various investigative activities performed for the Allendale School Property have been evaluated to determine whether the extent of affected soil has been adequately characterized. This evaluation involved the use of PCB concentrations as a surrogate for defining this extent. While the data are not sufficient to allow for an accurate calculation of volumes of soils affected by the various non-PCB constituents, the PCB data do allow volume estimates of PCB-affected soils, and those estimates should be adequate for performing subsequent MCP remedial response activities.

Figures 9, 10, and 11 illustrate the general vertical extent of impact with respect to subsurface lithology, and Figure 12 illustrates the general horizontal extent of impacted material as areas containing PCB concentrations greater than 2 ppm. As illustrated by these figures, the horizontal extent of PCB-containing soil material is generally encompassed by the existing cap, with the exception of the soil removal area on the eastern side of the cap, the southwestern side of the main school building (in the vicinity of ASB-3), as well as along Tyler Street Extension (in the vicinity of ASB-12). As discussed in Section 2.1, all soils found to contain PCBs at concentrations greater than 2 ppm within 3 feet of the surface in areas outside of the cap have been removed.

The vertical extent of PCB presence found at this site appears to generally range from 5 to 8 feet below the surface beneath the cap, but up to approximately 11.5 feet outside the cap near the south side of the main school building (boring B-66, 11-11.5 feet, sampled in August, 1990). Maximum PCB concentrations were generally found at a depth of 4 to 6 feet below grade. Only three of the nine borings installed during the recent investigation (ASB-27, ASB-29, and ASB-34), exhibited PCB concentrations greater than 1 ppm at the base. However, in each case the preceding interval exhibited PCB levels below 1 ppm, and data from surrounding borings generally serves to further delineate the vertical extent in these areas.

3. Groundwater Sampling and Analysis

3.1 General

The scope of the groundwater component of the recent Supplemental MCP Phase II activities was expanded to better interpret the groundwater flow characteristics in the area, and by a request from MDEP for additional analytical data. This section describes the additional efforts and presents the results of a new round of groundwater sample analyses. All tasks that involved sampling and analysis were performed in accordance with GE's SAP/DCAQAP.

3.2 Recent Groundwater Sampling and Analysis Results

3.2.1 Overview

As part of the recent Supplemental Phase II investigation, four new piezometers were installed at the site to enhance the evaluation of groundwater elevation conditions (Figure 13). Piezometer PZ-1 was installed in the vicinity of the southwest corner of the site, PZ-2 was placed at the location of former soil boring ASB-5, and two piezometers were installed approximately 150 feet to the northwest (PZ-3) and southeast (PZ-4) of existing monitoring well SCH-2. In March 1998, water levels were obtained from each of the new piezometers, the four existing wells at the site (SCH-1 through SCH-4), and three existing wells along the southern boundary of the site in the Hill 78 area (NY-4, 78-1, and 78-6) (see Figure 13); well volumes were also calculated. A second round of water level measurements were taken from these piezometers and wells in June 1998.

In March 1998, samples were also obtained from the four new piezometers and four existing wells at the site. Prior to sampling, the wells were purged of their well volumes and allowed to recharge overnight. Prior to sampling, each well was again purged of their well volumes until five well volumes were evacuated, and samples were then collected using the low-flow technique as described in the SAP/DCAQAP. Each sample was analyzed for PCBs (filtered by lab/unfiltered), inorganics (filtered in field), and additional Appendix IX+3 constituents. The results of the recent groundwater sampling are discussed below, and are shown in Tables 3 and 4.

3.2.2 Analytical Results

PCBs were detected in groundwater samples from two monitoring wells, SCH-1 (filtered and unfiltered samples) and SCH-2 (unfiltered sample only -- see Table 3). PCB concentrations in the sample from SCH-1 were 0.0021

ppm in the unfiltered sample and 0.0012 ppm in the filtered sample. PCB concentrations in the sample from SCH-2 were 0.0028 ppm in the unfiltered sample and not detected in the filtered sample. All other samples collected in March 1998 (filtered and unfiltered) had non-detectable levels of PCBs. PCBs were previously not detected in either SCH-1 or SCH-2 during the May 1997 sampling event. A PCB concentration of 0.00052 ppm was reported in the filtered rinse blank sample associated with SCH-1 and SCH-2.

VOCs were not detected in any of the groundwater samples; however, chloroform was detected in sample SCH-DUP-1 (duplicate sample from piezometer PZ-1) at a concentration less than the CLP-required detection limit (Table 4).

Di-n-butyl phthalate was detected in well SCH-4 at an estimated concentration less than the CLP-required detection limit (Table 4). No other SVOCs were detected in the groundwater samples.

No pesticides or herbicides were detected in the groundwater samples during the March 1998 sampling effort. Pesticides or herbicides were also not detected in any of the well samples obtained during the May 1997 sampling event.

Total TCDFs were detected in the unfiltered sample from well SCH-2 at a concentration of 0.0000000077 ppm. Octachloro-dibenzo-p-dioxin was detected in the unfiltered sample from well SCH-1 at an estimated concentration of 0.000000081 ppm. No other PCDDs or PCDFs were detected in any of the groundwater samples from the March 1998 sampling event.

Various inorganic constituents were detected in each of the filtered groundwater samples from the March 3-5, 1998 sampling event (Table 4). Only two RCRA metals (arsenic and lead) were detected at concentrations greater than their respective CLP-required quantitation limits. Arsenic was detected in two samples (SCH-4 and PZ-4) at concentrations of 0.007 ppm (estimated) and 0.0124 ppm, respectively. Lead was detected in the sample collected from well SCH-1 at a concentration of 0.0034 ppm.

3.3 Evaluation of Hydrogeologic Characteristics

As discussed in Section 3.2.1, to address data needs in groundwater flow patterns at the site, water table elevations were measured at the four new piezometers, at four existing monitoring wells at the site (SCH-1 through SCH-4),

and at three wells along the southern boundary of the site in the Hill 78 area (wells NY-4, 78-1, and 78-6). Water level measurements were first obtained on March 3, 1998, prior to purging activities associated with sample collection (Table 5).

The results of this monitoring event were used to develop a water table elevation contour map (Figure 13). Groundwater elevation data from the Hill 78 Area, located immediately to the south of the Allendale School Property, was also examined. The contour map indicates that groundwater flow converges in the marshy area beneath the central to southern portion of the capped area, and then discharges to the southwest. The groundwater flow path corresponds to the path of the on-site stormwater drainage system. The storm drain beneath the capped area consists of a primary drain line which runs to the southwest along the southern portion of the property. Three laterals extend from the primary line to near the northwest edge of the cap. Segments of a second storm system which drain Connecticut Avenue to the north and to Virginia Avenue to the east converge near the northeast corner of the capped area.

The water elevation measurements obtained in March 1998 at piezometer PZ-3 seemed to be anomalous with respect to the water level measurements obtained from the other piezomenters and wells at the site. The water level was significantly lower with respect to the surrounding wells. Due to these anomalous readings at PZ-3, another round of groundwater elevation measurements were performed on June 2, 1998 (Table 5). These results were consistent with the measurements performed on March 3, 1998. In both sampling events, the groundwater elevation readings from piezometer PZ-3 were significantly lower than the other wells and piezometers; however, the water level in PZ-3 rose relative to the previous sampling event, while water levels in the other wells and piezometers fell during the same time period. According to the boring log for this piezometer, the soil found in the vicinity of PZ-3 is tightly packed, and may not allow for relatively unrestricted groundwater flow through the area. Because of this anomaly found at piezometer PZ-3, the water table elevation data from PZ-3 was not used in constructing the water table elevation contour map. Also, because the water table elevation measurements collected in June 1998 were consistent with the water table elevation measurements collected in March 1998, only the March 1998 water table elevation measurements have been illustrated on Figure 13.

Horizontal hydraulic gradients for the site were calculated from the groundwater elevation measurements collected on March 3, 1998 (Figure 13). The horizontal hydraulic gradient for the area beneath the cap discharging to the southwest corner of the site was interpreted to be 0.0033 feet/foot, as calculated between Monitoring Well SCH-2 and Piezometer PZ-1. Horizontal hydraulic gradients for flowpaths converging at the marshy area were calculated

to be 0.0061 feet/foot between Piezometer PZ-4 and Monitoring Well SCH-2, located along the northeast portion of the capped area, and 0.0184 feet/foot along the southwest edge of the property, between Monitoring Well SCH-3 and Piezometer PZ-1.

Based on information developed during the investigations completed in the adjacent Hill 78 area, the till unit, which was encountered throughout the investigation area, is a low permeability unit relative to the overlying fill material and glaciofluvial sands. The till appears to act as a confining unit by restricting the vertical movement of groundwater. Hydraulic conductivity testing performed at monitoring wells screened in these geologic units at the Hill 78 investigation area confirmed the variation in permeabilities. The results indicated geometric mean hydraulic conductivities of 1.07×10^{-3} centimeters/second (cm/sec) in the fill, and 1.16×10^{-5} cm/sec in the till unit.

4. Overall Evaluation of Site Data

4.1 Introduction

This section provides a discussion and overview of the project objectives and analytical data evaluated in this Addendum. Section 4.2 provides a summary of recent project objectives and activities, as outlined in the Supplemental Phase II Report and subsequent conditional approval letter, and Section 4.3 provides a description of additional data needs.

4.2 Summary of Recent Project Objectives and Activities

The scope of the additional MCP Phase II Investigations at the Allendale School Property was outlined in the August 1997 Supplemental Phase II Report and modified in response to comments made by MDEP in a letter dated December 24, 1997. Each of these activities was identified in previous sections of this report, and the results of these activities was presented. These activities, and a summary of the results of the activities, are presented below.

ACTIVITY:

Determine the extent of soils located outside of the existing cap which contain PCBs at concentrations exceeding 2 ppm in the uppermost three feet of soil and implement a removal action in the identified areas.

RESULTS:

As summarized in Section 2.2, seventy soil samples were collected from twenty-eight locations during the February -March 1998 removal investigations. Each sample was analyzed for PCBs and one sample was analyzed for Appendix IX+3 constituents. Based on the analytical results of the new and previous investigations, three discrete removal areas were identified where PCB concentrations exceeded the 2 ppm removal criteria in the uppermost three feet of soil. Following MDEP approval, the limited soil removal was conducted during the week of April 20, 1998. Approximately 1600 cubic yards of soil were removed and disposed of at two off-site facilities. Subsequent to the removal activities, there were no locations outside of the cap area where PCB concentrations exceeded 2 ppm within 3 feet of the ground surface.

ACTIVITY:

Assess the presence of non-PCB hazardous constituents in surface soils outside of the capped area, including in the vicinity of ASB-21.

RESULTS:

Nine surficial soil samples were taken from the 0- to 6-inch depth interval at locations outside of the capped area and analyzed for Appendix IX+3 constituents. (Both ASB-43 and AS-96-80 were in the vicinity of ASB-21.) These data are shown in Tables 1 and 2, and summarized on Figures 6, 7, and 8, and in Section 2.3.2.

VOCs were not detected in any of the nine surficial soil samples analyzed for Appendix IX−3 constituents. Eighteen SVOCs were detected in one or more samples. Seven of these SVOCs were reported at values less than their respective CLP-required quantitation limits. One pesticide, 4,4'-DDE, was detected at concentrations slightly greater than the CLP-required quantitation limits in two samples. Eighteen inorganic constituents were detected in the soil samples. Four RCRA metals (arsenic, barium, chromium, and lead) were detected in all nine soil samples. PCDDs were detected in eight surface soil samples at a maximum total PCDD concentration of 0.00029 ppm. PCDFs were detected in nine samples at total PCDF concentrations ranging from 0.0000063 ppm to 0.00037 ppm.

ACTIVITY:

Complete residential surface soil sampling at Parcel K11-7-28.

RESULTS:

Soil samples were collected from the 0- to 6-inch and the 6- to 12-inch depth intervals at two locations on the residential property. Each sample was analyzed for PCBs. Very low levels of PCBs were detected in each of the four soil samples collected at two locations on the residential property. Total PCB concentrations ranged from 0.13 ppm to 0.41 ppm (see Table 1, Figure 6, and Section 2.3.1.)

ACTIVITY:

Further delineate the vertical extent of PCBs in subsurface soils within the capped area.

RESULTS:

As summarized in Section 2.4, nine soil borings were completed within the southern portion of the capped area, in areas where the previous borings did not completely delineate the vertical extent of PCBs. Soil samples were obtained from 2-foot depth intervals beginning at the base of the cap, extending through the fill/original soil and analyzed for PCBs. The analytical results, along with the existing data base, have been reviewed, and it is determined that the vertical extent of PCBs is appropriately defined for the purposes of evaluating remedial alternatives (see Section 2.6).

ACTIVITY:

Further characterize the soil near soil boring ASB-3.

RESULTS:

Three soil borings were installed to the west, south, and southeast of ASB-3. Soil samples were collected from the 0- to 6-inch and 6- to 12-inch depth intervals, and thereafter in 2-foot increments to a depth of 7 feet. All samples were analyzed for PCBs. Three subsurface samples (one from each boring) and one surficial soil sample were analyzed for Appendix IX+3 constituents (see Tables 1-2, Figures 6-8, and Section 2.4).

PCBs were detected in five of fifteen samples collected from the three soil borings installed near ASB-3 at a maximum concentration of 0.32 ppm total PCBs. No Appendix IX+3 constituents (other than metals) were detected in the samples from borings ASB-23 or ASB-24. The only detected concentrations of these constituents were in boring ASB-25, located southeast of ASB-3. Two samples (0-0.5 feet and 5-7 feet) were analyzed from this boring. No VOCs were detected. One SVOC, bis (2-ethylhexyl) phthalate, was detected in a single sample (0-0.5 foot depth interval) at an estimated concentration less than the CLP-required quantitation limit. One pesticide, dieldrin, was detected in the 5-7 foot depth interval sample at an estimated concentration of 0.0093 ppm. PCDFs were detected in the surficial and subsurface samples collected from boring ASB-25, while PCDDs were detected only

in the duplicate sample in the 5-7 foot depth interval from this boring. Five RCRA metals (arsenic, barium, chromium, lead, and selenium) were detected in soil samples from these three borings.

ACTIVITY:

Determine the vertical extent of PCBs in subsurface soils in the vicinity of the removal area near sample locations ASB-37, ASB-38, ASB-40, ASB-42, and ASB-51.

RESULTS:

The primary focus of the delineation samples was to determine the extent of PCBs greater than 2 ppm in the top 3 feet. Several of the sample locations showed PCBs at a concentration greater than 2 ppm in the 1-3 foot depth interval. Two borings (ASB-52 and ASB-55) were extended to depths of up to 11 feet. PCB concentrations at the bottom of these borings were less than 2 ppm. After discussions between GE and MDEP personnel, it was concluded that the results from these borings were sufficient to determine vertical extent of PCBs in the vicinity of the removal area.

ACTIVITY:

Collect additional groundwater analytical data at the site.

RESULTS:

As set forth in Section 3.2, a groundwater sampling event was conducted to further assess the potential presence of PCBs and other Appendix IX+3 constituents in groundwater at the site. Groundwater from the four new piezometers and four existing wells was sampled and analyzed for PCBs and Appendix IX+3 constituents.

PCBs were detected in unfiltered samples from monitoring wells SCH-1 and SCH-2 at concentrations of 0.0021 ppm and 0.0028 ppm, respectively. The SCH-1 sample also showed 0.0012 ppm of total PCBs in the filtered sample. PCBs had not been detected in either of these wells during a previous sampling effort in May 1997. No PCBs were reported in any of the remaining groundwater samples collected during this investigation (see Table 3).

Other Appendix IX+3 constituents detected in groundwater samples included chloroform, di-n-butylphthalate, total TCDFs, octachlorodibenzo-p-dioxin, and various metals (see Table 4). These results were generally comparable to the constituents and concentrations detected in the groundwater samples collected as part of the Supplemental Phase II investigations in May 1997.

ACTIVITY:

Resolve anomalies observed in previous groundwater elevation data.

RESULTS:

As discussed in Section 3.3, groundwater elevations in the four new piezometers and selected existing monitoring wells were measured on March 3, 1998. The results of this monitoring event were used to develop a revised water table elevation contour map.

The revised groundwater elevation contour map developed with the March 3, 1998 water table elevation data indicates that groundwater flow converges in the marshy area beneath the central to southern portion of the capped area and discharges to the southwest. A second round of groundwater elevation measurements taken in June 1998 were consistent with the March 1998; these data are not illustrated. Anomalous readings that were obtained from the northernmost piezometer PZ-3 were not used in developing the groundwater contours following evaluation of the data. The groundwater flow follows the path of the on-site stormwater drainage system, corresponds with historic drainage patterns in the area, and also correlates with data from adjacent downgradient areas.

4.3 Additional Data Needs

Based on a review of the information available concerning the Allendale School property, MCP requirements concerning the investigation component of an MCP Phase II Comprehensive Site Assessment have been satisfied, with the exception of a further round of groundwater sampling at wells SCH-1 and SCH-2. PCBs were not detected in these wells during the May 1997 sampling event. In March 1998, however, PCBs were detected in the unfiltered samples from both wells, the filtered samples from SCH-1 and in the filtered rinse blank associated with both wells. Accordingly, a subsequent round of sampling and analysis for PCBs at these wells may be necessary. Upon the

MDEP's approval of this report these samples will be collected and analyzed for filtered and unfiltered PCBs, and the results will be submitted to the MDEP within 45 days following the MDEP's approval of this report.

5. Evaluation of Analytical Data Validation

5.1 Introduction

This section provides an overall assessment of the analytical data quality for samples collected during implementation of recent investigations at the site. A more detailed summary of the procedures followed during the analytical data validation process is provided in Attachment C of this Addendum.

The Quality Assurance/Quality Control (QA/QC) procedures implemented during sample collection activities were utilized to ensure that the analytical data were of sufficient quality to meet the data quality objectives (DQOs) specified in the SAP/DCAQAP. The DQOs were established at the onset of the investigation to define the precision and accuracy of the analytical data required to support its intended use. To achieve the designated DQOs, specific procedures for field sampling activities, analytical procedures, data reporting, and data validation were established in the SAP/DCAQAP. The SAP/DCAQAP also outlined procedures to evaluate overall data quality through the analysis of the precision, accuracy, representativeness, completeness, and comparability (PARCC) parameters.

The remainder of this section presents an evaluation of the PARCC parameters.

5.2 Data Usability

This section summarizes the analytical data in terms of its completeness and usability for site characterization purposes. Data completeness is defined as the percentage of sample results that have been determined to be usable during the data validation process. Data completeness with respect to usability was calculated separately for inorganic and each of the organic analyses. The percent usability calculation included analyses evaluated under both the Tier I and Tier II data validation reviews. The percent usability calculation did not include quality control samples collected to aid in the evaluation of data usability. Therefore, field/equipment blank, trip blank, and field duplicate data determined to be unusable as a result of the validation process are not represented in the percent usability value tabulated below.

Data Usability

Parameter	Percent Usability	Rejected Data
Inorganics	100	None
Cyanide and Sulfide	100	None
Volatile Organics	94.9	Non-detected results for 6 compounds for 20 samples were rejected due to initial calibration deviations.
Semivolatile Organics	100	None
PCBs/Pesticides	100	None
Herbicides	100	None
PCDDs/PCDFs	100	None

5.3 PARCC Parameters

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 SAP/DCAQAP, the overall PARCC parameters determined from the Tier I and Tier II data reviews were utilized 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 DQOs specified in the SAP/DCAQAP. Therefore, the following sections present summaries of the PARCC parameters assessment with regard to the Data Quality Assurance Goals specified in the SAP/DCAQAP.

5.3.1 Precision

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, it is a quantitative measure of the variability of a group of measurements compared to their average value. For this investigation, precision was defined as the RPD between duplicate sample results. The duplicate samples utilized to evaluate precision included laboratory duplicates, field duplicates, and MS/MSD samples. For this analytical program, 0.284 percent of the data were qualified for field duplicate precision deviations. None of the data required qualification for laboratory duplicate deviations or MS/MSD deviations.

5.3.2 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 of interest. The QA/QC samples used to evaluate analytical accuracy included calibration standards, laboratory control samples, MS/MSD samples, and surrogate compound recoveries. For this analytical program, 0.325 percent were qualified for calibration deviations and laboratory control sample deviations, and none of the data required qualification for MS/MSD recovery deviations or surrogate recovery deviations.

5.3.3 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 following the procedures for sample collection and analyses that were described in the SAP/DCAQAP. Additionally, the analytical program utilized procedures that were consistent with USEPA approved analytical methodology. A QA/QC parameter that is an indicator of the representativeness of a sample is holding time. Holding time criteria are established to maintain the condition of samples before analysis.

5.3.4 Completeness

Completeness is defined as the percentage of measurements made that are judged to be valid or usable to meet the prescribed data quality objectives. 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 program was 98.8 percent.

The rejected sample data for these investigations include a total of 120 sample analysis results for 6 compounds due to initial calibration deviations. Low calibration response factors for these compounds are an inherent problem with the current analytical methodology. Therefore, additional sampling and reanalysis for these compounds is not

recommended, since these compounds do not appear to be constituents of concern for this site, and subsequent reanalyses would also be subject to the same analytical performance limitations.

5.3.5 Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. Sample data should be comparable with other measurement data for similar samples and sample conditions. This goal was achieved through the use of the standardized techniques for sample collection and analysis presented in the SAP/DCAQAP.

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Tables

TABLE 1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL PCB DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth (feet)	Date Collected	Aroclor-1254	Aroclor-1260	Total PCBs
Surface/Near-Surface					
AS-96-80	0-0.5	17-Feb-98	ND(0.058)	0.13	0.13
AS-98-128	0-0.5	17-Feb-98	ND(0.051)	0.090	0.090
AS-98-129	0-0.5	17-Feb-98	ND(0.062)	0.24	0.24
AS-98-130	0-0.5	17-Feb-98	ND(0.044)	0.078	0.078
AS-98-131	0-0.5	17-Feb-98	ND(0.055) [ND(0.055)]	0.26 [0.23]	0.26 [0.23]
AS-98-132	0-0.5	17-Feb-98	ND(0.047)	0.090	0.090
AS-98-133	0-0.5	17-Feb-98	0.047	0.039	0.086
AS-98-134	0-0.5	16-Mar-98	ND(0.046)	ND(0.046)	ND(0.046)
	0.5-1	16-Mar-98	ND(0.84)	2.8	2.8
	1-3	16-Mar-98	ND(0.042)	0.13	0.13
K11-7-28-SS-1	0-0.5	23-Feb-98	ND(0.044)	0.15	0.15
	0.5-1	23-Feb-98	ND(0.043)	0.13	0.13
K11-7-28-SS-2	0-0.5	23-Feb-98	ND(0.047)	0.41	0.41
	0.5-1	23-Feb-98	ND(0.042)	0.29	0.29
Soil Boring Samples					
ASB-23	1-3	19-Feb-98	ND(0.038)	0.32	0.32
	3-5	19-Feb-98	ND(0.037)	0.043	0.043
	5-7	19-Feb-98	ND(0.037)	ND(0.037)	ND(0.037)
ASB-24	0-0.5	19-Feb-98	ND(0.036)	ND(0.036)	ND(0.036)
	0.5-1	19-Feb-98	ND(0.035)	ND(0.035)	ND(0.035)
	1-3	19-Feb-98	ND(0.035)	ND(0.035)	ND(0.035)
	3-5	19-Feb-98	ND(0.037)	ND(0.037)	ND(0.037)
	5-7	19-Feb-98	ND(0.036)	ND(0.036)	ND(0.036)
ASB-25	0-0.5	19-Feb-98	ND(0.036)	0.11	0.11
	0.5-1	19-Feb-98	ND(0.035)	ND(0.035)	ND(0.035)
	1-3	19-Feb-98	ND(0.038)	ND(0.038)	ND(0.038)
	3-5	19-Feb-98	ND(0.039) [ND(0.037)]	0.096 [0.15]	0.096 [0.15]
	5-7	19-Feb-98	ND(0.038) [ND(0.042)]	0.045 [0.088]	0.045 [0.088]
ASB-26	2-4	17-Feb-98	ND(0.83)	5.6	5.6
	4-6	17-Feb-98	ND(0.20)	1.8	1.8
	6-8	17-Feb-98	ND(0.76)	6.7	6.7
	8-10	17-Feb-98	0.065	0.15	0.22
ASB-27	2-4	17-Feb-98	ND(1.8)	25	25
	4-6	17-Feb-98	ND(0.40)	2.6	2.6
	6-8	17-Feb-98	ND(0.040)	0.12	0.12
	8-10	17-Feb-98	7.0 J~ [ND(0.036) J~]	ND(0.80) J~ [0.21 J~]	7.0 J~ [0.21 J~]
ASB-28	2-4	17-Feb-98	ND(19)	87	87
	4-6	17-Feb-98	ND(76)	440	440
	6-8	17-Feb-98	0.30	0.34	0.64
	8-10	17-Feb-98	ND(0.041)	0.27	0.27

(See notes on page 4)

TABLE 1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL PCB DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

ASB-29	2-4	18-Feb-98	ND(0.40)	2.5	2.5
	4-6	18-Feb-98	ND(0.15)	1.4	1.4
	6-8	18-Feb-98	ND(0.16)	1.6	1.6
	8-10	18-Feb-98	ND(0.039)	0.058	0.058
	10-12	18-Feb-98	ND(0.84)	7.1	7.1
ASB-30	2-4	18-Feb-98	ND(1.5)	12	12
	4-6	18-Feb-98	ND(1.9)	27	27
	6-8	18-Feb-98	6.2	14	20
	8-10	18-Feb-98	ND(0.039)	0.11	0.11
	10-12	18-Feb-98	ND(0.039) [ND(0.041)]	0.066 J~ [0.34 J~]	0.066 J~ [0.34 J~]
ASB-31	2-4	18-Feb-98	ND(0.077)	1.0	1.0
	4-6	18-Feb-98	21	46	67
	6-8	18-Feb-98	7.6	15	23
	8-10	18-Feb-98	0.21	0.38	0.59
	10-12	18-Feb-98	ND(0.041)	ND(0.041)	ND(0.041)
ASB-32	2-4	18-Feb-98	ND(1.5)	12	12
	4-6	18-Feb-98	ND(3.0)	33	33
	6-8	18-Feb-98	ND(0.87)	4.4	4.4
	8-10	18-Feb-98	ND(0.041)	0.15	0.15
ASB-33	2-4	18-Feb-98	ND(0.84)	2.5	2.5
	4-6	18-Feb-98	14	29	43
	6-8	18-Feb-98	18	ND(1.0)	18
	8-10	18-Feb-98	ND(0.040)	ND(0.040)	ND(0.040)
ASB-34	2-4	18-Feb-98	ND(16)	95	95
	4-6	18-Feb-98	38	71	109
	6-8	18-Feb-98	0.65	1.3	2.0
	8-10	18-Feb-98	0.048	0.085	0.13
	10-12	18-Feb-98	0.81	1.8	2.6
ASB-35	0-0.5	25-Feb-98	ND(0.045)	0.068	0.068
	0.5-1	25-Feb-98	ND(0.038) [ND(0.20)]	0.048 J~ [2.8 J~]	0.048 J~ [2.8 J~]
	1-3	25-Feb-98	ND(0.036)	ND(0.036)	ND(0.036)
ASB-36	0-0.5	25-Feb-98	ND(0.039)	0.040	0.040
	0.5-1	25-Feb-98	ND(0.037)	0.19	0.19
	1-3	25-Feb-98	ND(0.038)	0.058	0.058
ASB-37	0-0.5	25-Feb-98	ND(0.19)	1.8	1.8
	0.5-1	25-Feb-98	ND(0.41) [ND(0.036)]	4.1 J~ [0.059 J~]	4.1 J~ [0.059 J~]
	1-3	25-Feb-98	ND(3.8)	19	19
ASB-38	0-0.5	25-Feb-98	ND(0.056)	ND(0.056)	ND(0.056)
	0.5-1	25-Feb-98	ND(0.78) [ND(0.41)]	6.4 [4.5]	6.4 [4.5]
	1-3	25-Feb-98	ND(1.5)	17	17

(See notes on page 4)

TABLE 1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL PCB DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

ASB-39	0-0.5	25-Feb-98	ND(3.9)	23	23
	0.5-1	25-Feb-98	ND(3.6)	18	18
	1-3	25-Feb-98	ND(0.051)	0.15	0.15
ASB-40	0-0.5	25-Feb-98	ND(0.091)	1.2	1.2
	0.5-1	25-Feb-98	ND(1.9)	11	11
	1-3	25-Feb-98	ND(3.8)	16	16
ASB-41	0-0.5	25-Feb-98	ND(0.56)	5.7	5.7
	0.5-1	25-Feb-98	ND(0.38)	1.4	1.4
	1-3	25-Feb-98	0.20	0.34	0.54
ASB-42	0-0.5	25-Feb-98	ND(0.050)	ND(0.050)	ND(0.050)
	0.5-1	25-Feb-98	ND(0.48)	3.4	3.4
	1-3	25-Feb-98	ND(0.51)	4.8	4.8
ASB-43	0-0.5	25-Feb-98	ND(1.1)	11	11
	0.5-1	25-Feb-98	ND(0.50)	2.8	2.8
	1-3	25-Feb-98	ND(0.041)	ND(0.041)	ND(0.041)
ASB-44	0-0.5	25-Feb-98	ND(0.084)	0.44	0.44
	0.5-1	25-Feb-98	ND(0.038)	0.58	0.58
	1-3	25-Feb-98	0.38	0.42	0.80
ASB-45	0-0.5	25-Feb-98	ND(0.85)	4.9	4.9
	0.5-1	25-Feb-98	ND(3.8)	49	49
	1-3	25-Feb-98	ND(0.16)	1.3	1.3
ASB-46	0-0.5	25-Feb-98	ND(1.1)	7.0	7.0
	0.5-1	25-Feb-98	ND(1.8)	19	19
	1-3	25-Feb-98	ND(7.4)	94	94
ASB-47	0-0.5	25-Feb-98	ND(0.055)	0.59	0.59
	0.5-1	25-Feb-98	ND(0.047)	0.55	0.55
	1-3	25-Feb-98	ND(0.16)	1.8	1.8
ASB-48	0-0.5	25-Feb-98	ND(0.067)	0.080	0.080
	0.5-1	25-Feb-98	ND(0.20)	2.9	2.9
	1-3	25-Feb-98	0.35	0.77	1.1
ASB-49	0-0.5	25-Feb-98	ND(0.042)	0.061	0.061
	0.5-1	25-Feb-98	ND(0.043)	0.45	0.45
	1-3	25-Feb-98	ND(0.088)	1.4	1.4
ASB-50	0-0.5	25-Feb-98	ND(0.060)	0.49	0.49
	0.5-1	25-Feb-98	ND(0.041)	0.21	0.21
	1-3	25-Feb-98	ND(0.051)	ND(0.051)	ND(0.051)
ASB-51	0-0.5	16-Mar-98	ND(0.21)	1.0	1.0
	0.5-1	16-Mar-98	ND(0.39)	2.0	2.0
	1-3	16-Mar-98	5.7 J~ [12 J~]	14 J~ [28 J~]	20 J~ [40 J~]

(See notes on page 4)

TABLE 1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL PCB DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

ASB-52	1-3	16-Mar-98	ND(0.43)	1.8	1.8
	3-5	16-Mar-98	ND(0.040)	0.044	0.044
	5-7	16-Mar-98	ND(0.041)	ND(0.041)	ND(0.041)
	7-9	16-Mar-98	ND(0.039)	ND(0.039)	ND(0.039)
	9-11	16-Mar-98	ND(0.037)	ND(0.037)	ND(0.037)
ASB-53	1-3	16-Mar-98	ND(0.039)	0.27	0.27
ASB-54	1-3	16-Mar-98	0.54	0.38	0.92
ASB-55	3-5	16-Mar-98	2.5	5.9	8.4
	5-7	16-Mar-98	ND(0.037)	ND(0.037)	ND(0.037)
	7-9	16-Mar-98	ND(0.19)	0.93	0.93
ASB-56	1-3	16-Mar-98	ND(0.041)	0.12	0.12
ASB-57	1-3	16-Mar-98	ND(0.048) J~ [0.11 J~]	0.32 [0.26]	0.32 [0.37 J~]
ASB-58	1-3	16-Mar-98	ND(0.041)	ND(0.041)	ND(0.041)
ASB-59	1-3	16-Mar-98	ND(0.047)	0.25	0.25
ASB-60	1-3	16-Mar-98	ND(0.040)	ND(0.040)	ND(0.040)
ASB-61	1-3	16-Mar-98	ND(0.039)	0.43	0.43

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc., and were submitted to Quanterra, Inc. for analysis of PCBs.
2. ND - Compound was not detected. The number in parentheses is the associated quantitation limit.
3. J~ - Estimated value due to data validation qualification.
4. Duplicate analyses are shown in brackets.

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	ASB-25	ASB-43	AS-96-80	AS-98-128	AS-98-129
Sample Depth (feet):	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:	19-Feb-98	25-Feb-98	17-Feb-98	17-Feb-98	17-Feb-98
Volatile Organics					
Acetone	ND(0.011)	ND(0.022)	ND(0.017)	ND(0.015)	ND(0.019)
2-Butanone	ND(0.011)	ND(0.022)	ND(0.017)	ND(0.015)	ND(0.019)
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	ND(0.36)	ND(0.72)	ND(0.58)	ND(0.51)	ND(0.62)
1,4-Dichlorobenzene	ND(0.36)	ND(0.72)	ND(0.58)	ND(0.51)	ND(0.62)
Acenaphthene	ND(0.36)	ND(0.72)	ND(0.58)	ND(0.51)	0.092 J
Acenaphthylene	ND(0.36)	0.10 J	ND(0.58)	0.064 J	0.48 J
Anthracene	ND(0.36)	ND(0.72)	ND(0.58)	0.11 J	0.39 J
Benzo(a)anthracene	ND(0.36)	0.44 J	0.25 J	0.50 J	2.1
Benzo(a)pyrene	ND(0.36)	0.52 J	0.22 J	0.54	2.4
Benzo(b)fluoranthene	ND(0.36)	0.48 J	0.19 J	0.57	2.5
Benzo(g,h,i)perylene	ND(0.36)	ND(0.72)	ND(0.58)	ND(0.51)	1.2
Benzo(k)fluoranthene	ND(0.36)	0.45 J	0.19 J	0.45 J	1.8
Bis(2-ethylhexyl)phthalate	0.13 J	ND(0.72)	ND(0.58)	0.95	ND(0.62)
Chrysene	ND(0.36)	0.64 J	0.29 J	0.68	2.9
Di-n-butylphthalate	ND(0.36)	ND(0.72)	ND(0.58)	ND(0.51)	ND(0.62)
Di-n-octylphthalate	ND(0.36)	ND(0.72)	ND(0.58)	0.070 J	ND(0.62)
Dibenz(a,h)anthracene	ND(0.36)	0.13 J	ND(0.58)	0.091 J	0.50 J
Fluoranthene	ND(0.36)	1.1	0.54 J	1.1	4.6
Fluorene	ND(0.36)	ND(0.72)	ND(0.58)	ND(0.51)	0.27 J
Indeno(1,2,3-cd)pyrene	ND(0.36)	0.34 J	0.13 J	0.36 J	1.3
Phenanthrene	ND(0.36)	0.57 J	0.25 J	0.66	2.6
Pyrene	ND(0.36)	0.99	0.47 J	0.91	4.0

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	AS-98-130	AS-98-131	AS-98-132	AS-98-133
Sample Depth (feet):	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:	17-Feb-98	17-Feb-98	17-Feb-98	17-Feb-98
Volatile Organics				
Acetone	ND(0.013)	ND(0.017) [ND(0.017)]	ND(0.014)	ND(0.12)
2-Butanone	ND(0.013)	ND(0.017) [ND(0.017)]	ND(0.014)	ND(0.12)
Semivolatile Organics				
1,2,4,5-Tetrachlorobenzene	ND(0.44)	ND(0.55) [ND(0.55)]	ND(0.47)	ND(0.39)
1,4-Dichlorobenzene	ND(0.44)	ND(0.55) [ND(0.55)]	ND(0.47)	ND(0.39)
Acenaphthene	ND(0.44)	ND(0.55) [ND(0.55)]	ND(0.47)	ND(0.39)
Acenaphthylene	ND(0.44)	ND(0.55) [ND(0.55)]	ND(0.47)	0.071 J
Anthracene	0.098 J	ND(0.55) [ND(0.55)]	ND(0.47)	0.056 J
Benzo(a)anthracene	0.30 J	0.14 J [0.16 J]	0.090 J	0.29 J
Benzo(a)pyrene	0.29 J	0.20 J [0.22 J]	0.11 J	0.33 J
Benzo(b)fluoranthene	0.26 J	0.21 J [0.25 J]	0.10 J	0.36 J
Benzo(g,h,i)perylene	ND(0.44)	ND(0.55) [ND(0.55)]	ND(0.47)	ND(0.39)
Benzo(k)fluoranthene	0.26 J	0.17 J [0.22 J]	0.090 J	0.30 J
Bis(2-ethylhexyl)phthalate	ND(0.44)	ND(0.55) [ND(0.55)]	ND(0.47)	ND(0.39)
Chrysene	0.35 J	0.26 J [0.29 J]	0.13 J	0.39
Di-n-butylphthalate	ND(0.44)	ND(0.55) [ND(0.55)]	0.052 J	ND(0.39)
Di-n-octylphthalate	ND(0.44)	ND(0.55) [0.080 J]	ND(0.47)	ND(0.39)
Dibenz(a,h)anthracene	ND(0.44)	ND(0.55) [ND(0.55)]	ND(0.47)	ND(0.39)
Fluoranthene	0.71	0.44 J [0.55]	0.19 J	0.56
Fluorene	ND(0.44)	ND(0.55) [ND(0.55)]	ND(0.47)	ND(0.39)
Indeno(1,2,3-cd)pyrene	0.20 J	0.15 J [0.10 J]	ND(0.47)	0.13 J
Phenanthrene	0.44	0.26 J [0.28 J]	0.090 J	0.25 J
Pyrene	0.59	0.44 J [0.43 J]	0.14 J	0.56

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	ASB-25	ASB-43	AS-96-80	AS-98-128	AS-98-129
Sample Depth (feet):	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:	19-Feb-98	25-Feb-98	17-Feb-98	17-Feb-98	17-Feb-98
Furans					
2,3,7,8-TCDF	ND(0.00000046)	0.000011 g	0.0000037 g	0.000012 g	0.000024
TCDFs (total)	ND(0.0000010)	0.000063	0.000017	0.000063	0.00014
1,2,3,7,8-PeCDF	ND(0.00000044)	ND(0.0000028)	ND(0.0000012)	ND(0.0000028)	ND(0.0000046)
2,3,4,7,8-PeCDF	ND(0.00000046)	ND(0.0000039)	ND(0.0000012)	ND(0.0000027)	0.0000062 J**
PeCDFs (total)	ND(0.00000070)	0.000059	0.000022	0.000052	0.00011
1,2,3,4,7,8-HxCDF	ND(0.00000041)	0.0000082 J**	ND(0.0000012)	ND(0.0000022)	0.0000068 J**
1,2,3,6,7,8-HxCDF	ND(0.00000042)	ND(0.0000035)	ND(0.00000089)	ND(0.0000022)	ND(0.0000037)
2,3,4,6,7,8-HxCDF	ND(0.00000044)	ND(0.0000038)	ND(0.0000014)	ND(0.0000022)	ND(0.0000042)
1,2,3,7,8,9-HxCDF	ND(0.00000051)	ND(0.00000035)	ND(0.00000050)	ND(0.00000065)	ND(0.0000025)
HxCDFs (total)	ND(0.00000086)	0.000045	0.000013	0.000025	0.000076
1,2,3,4,6,7,8-HpCDF	ND(0.00000044)	0.000016	0.0000046 J**	0.0000089	0.000016
1,2,3,4,7,8,9-HpCDF	ND(0.00000047)	ND(0.0000036)	ND(0.00000064)	ND(0.0000014)	ND(0.0000016)
HpCDFs (total)	ND(0.00000047)	0.000030	0.000010	0.000017	0.000030
OCDF	0.0000063 J	0.000022	0.000014 J**	0.000013 J**	0.000016 J**
Total Furans	0.0000063	0.00022	0.000076	0.00017	0.00037
Dioxins					
2,3,7,8-TCDD	ND(0.00000032)	ND(0.00000029)	ND(0.00000067)	ND(0.00000051)	ND(0.00000083)
TCDDs (total)	ND(0.00000032)	0.0000014	ND(0.00000067)	0.0000036	0.0000029
1,2,3,7,8-PeCDD	ND(0.00000055)	ND(0.00000070)	ND(0.0000015)	ND(0.0000013)	ND(0.0000018)
PeCDDs (total)	ND(0.00000055)	ND(0.0000037)	ND(0.0000015)	ND(0.0000018)	ND(0.0000027)
1,2,3,4,7,8-HxCDD	ND(0.00000053)	ND(0.00000070)	ND(0.0000012)	ND(0.0000022)	ND(0.0000025)
1,2,3,6,7,8-HxCDD	ND(0.00000054)	ND(0.0000023)	ND(0.0000011)	ND(0.0000022)	ND(0.0000025)
1,2,3,7,8,9-HxCDD	ND(0.00000052)	ND(0.0000018)	ND(0.0000010)	ND(0.0000021)	ND(0.0000027)
HxCDDs (total)	ND(0.00000054)	0.0000068	ND(0.0000037)	0.000010	0.000020
1,2,3,4,6,7,8-HpCDD	ND(0.00000066)	0.000031	0.000012	0.000018	0.000027
HpCDDs (total)	ND(0.00000066)	0.000056	0.000025	0.000032	0.000045
OCDD	ND(0.0000042)	0.00023	0.00013	0.00012	0.00017
Total Dioxins	ND(0.0000042)	0.00029	0.00016	0.00017	0.00024

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	AS-98-130	AS-98-131	AS-98-132	AS-98-133
Sample Depth (feet):	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:	17-Feb-98	17-Feb-98	17-Feb-98	17-Feb-98
Furans				
2,3,7,8-TCDF	0.0000024 g	0.000022 g [0.000020 g]	0.0000040 g	0.0000028 g
TCDFs (total)	0.000012	0.00014 [0.00011]	0.0000074	0.000012
1,2,3,7,8-PeCDF	ND(0.0000012)	ND(0.0000040) [ND(0.0000023)]	ND(0.0000015)	ND(0.00000045)
2,3,4,7,8-PeCDF	ND(0.0000012)	0.0000051 J** [ND(0.0000035)]	ND(0.0000015)	ND(0.00000049)
PeCDFs (total)	0.000014	0.000069 [0.000054]	0.000015	0.0000061
1,2,3,4,7,8-HxCDF	ND(0.00000070)	0.0000056 J** [ND(0.0000049)]	ND(0.0000032)	ND(0.0000014)
1,2,3,6,7,8-HxCDF	ND(0.00000064)	ND(0.0000025) [ND(0.0000031)]	ND(0.0000033)	ND(0.00000066)
2,3,4,6,7,8-HxCDF	ND(0.00000076)	ND(0.0000033) [ND(0.0000030)]	ND(0.0000035)	ND(0.00000065)
1,2,3,7,8,9-HxCDF	ND(0.00000082)	ND(0.00000073) [ND(0.0000013)]	ND(0.0000016)	ND(0.00000014)
HxCDFs (total)	0.0000092	0.000050 J~ [0.000029 J~]	0.0000060	0.0000034
1,2,3,4,6,7,8-HpCDF	ND(0.0000030)	0.000014 [0.000011]	ND(0.0000045)	ND(0.0000018)
1,2,3,4,7,8,9-HpCDF	ND(0.00000028)	ND(0.0000025) [ND(0.0000014)]	ND(0.00000046)	ND(0.00000050)
HpCDFs (total)	0.0000041	0.000022 [0.000019]	0.0000072	ND(0.0000018)
OCDF	0.000010 J**	0.0000096 J** [0.0000095 J**]	ND(0.0000085)	ND(0.0000019)
Total Furans	0.000049	0.00029 [0.00022]	0.000036	0.000022
Dioxins				
2,3,7,8-TCDD	ND(0.00000038)	ND(0.00000041) [ND(0.00000069)]	ND(0.00000048)	ND(0.00000042)
TCDDs (total)	ND(0.00000037)	0.0000036 [0.0000027]	ND(0.00000048)	ND(0.00000042)
1,2,3,7,8-PeCDD	ND(0.00000093)	ND(0.0000010) [ND(0.0000015)]	ND(0.0000021)	ND(0.00000029)
PeCDDs (total)	ND(0.00000093)	ND(0.0000030) [ND(0.0000025)]	ND(0.0000021)	ND(0.00000097)
1,2,3,4,7,8-HxCDD	ND(0.0000011)	ND(0.0000011) [ND(0.0000020)]	ND(0.0000019)	ND(0.00000050)
1,2,3,6,7,8-HxCDD	ND(0.00000097)	ND(0.0000019) [ND(0.0000020)]	ND(0.0000020)	ND(0.00000063)
1,2,3,7,8,9-HxCDD	ND(0.0000010)	ND(0.0000024) [ND(0.0000019)]	ND(0.0000019)	ND(0.00000050)
HxCDDs (total)	ND(0.0000021)	0.000013 J~ [0.0000057 J~]	ND(0.0000020)	ND(0.0000016)
1,2,3,4,6,7,8-HpCDD	0.0000068	0.000021 [0.000018]	0.000013	0.0000031 J**
HpCDDs (total)	0.000015	0.000043 [0.000032]	0.000023	0.0000031
OCDD	0.000079	0.00015 [0.000099]	0.000096	0.000020
Total Dioxins	0.000094	0.00021 [0.00014]	0.00012	0.000023

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	ASB-25	ASB-43	AS-96-80	AS-98-128	AS-98-129
Sample Depth (feet):	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:	19-Feb-98	25-Feb-98	17-Feb-98	17-Feb-98	17-Feb-98
Organochlorine Pesticides					
4,4'-DDE	ND(0.0019)	ND(0.0046)	ND(0.0030)	ND(0.0026)	ND(0.0032)
Dieldrin	ND(0.0019)	ND(0.0046)	ND(0.0030)	ND(0.0026)	ND(0.0032)
Inorganics					
Arsenic	7.0	6.0	4.6	18.1	9.7
Barium	23.6	50.7	33.7 J*	57.2	59.0
Beryllium	0.23 J*	0.32 J*	0.31 J*	0.41 J*	0.46 J*
Cadmium	ND(0.55)	ND(1.1)	ND(0.87)	17.0	ND(0.93)
Chromium	11.1	11.0	10.3	12.2	12.7
Cobalt	12.6	10.1 J*	8.9	11.7	12.1
Copper	21.4	18.3	15.0	18.9	25.1
Lead	8.9	39.1	17.2	49.9	55.8
Mercury	ND(0.033)	0.064 J*	0.064 J*	0.14 J*	0.17 J*
Nickel	19.3	23.4	13.5	17.1	18.5
Selenium	0.99	1.9	0.93	16.2	1.6
Silver	ND(1.1)	ND(2.2)	ND(1.7)	3.5	ND(1.9)
Sulfide	ND(220)	ND(435)	ND(350)	601	373
Thallium	ND(1.1)	ND(2.2)	ND(1.7)	90.1	ND(1.9)
Tin	ND(11.0)	3.6 J*	2.2 J*	ND(15.5)	ND(18.6)
Vanadium	11.7	17.4	11.7	16.8	18.5
Zinc	60.0	84.0	70.0	92.5	101
Cyanide	ND(2.7)	ND(5.4)	ND(4.4)	4.5	ND(4.7)

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	AS-98-130	AS-98-131	AS-98-132	AS-98-133
Sample Depth (feet):	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:	17-Feb-98	17-Feb-98	17-Feb-98	17-Feb-98
Organochlorine Pesticides				
4,4'-DDE	0.0045	0.018 J~ [0.0028 J~]	ND(0.0024)	ND(0.0020)
Dieldrin	ND(0.0040)	ND(0.0021) [ND(0.0018)]	ND(0.0024)	ND(0.0020)
Inorganics				
Arsenic	5.9	6.8 [6.4]	5.9	5.6
Barium	44.6	44.4 [52.9]	39.4	28.9
Beryllium	0.38 J*	0.33 J* [0.34 J*]	0.34 J*	0.28 J*
Cadmium	ND(0.67)	ND(0.83) [ND(0.83)]	ND(0.72)	ND(0.59)
Chromium	11.6	9.8 [7.5]	10.9	7.0
Cobalt	10.6	9.8 [9.0]	10.6	8.5
Copper	18.8	17.2 [15.4]	17.9	16.2
Lead	16.3	38.5 [37.6]	16.9	14.3
Mercury	0.056 J*	0.095 J* [0.14 J*]	0.043 J*	0.022 J*
Nickel	16.8	14.6 [12.2]	15.4	13.9
Selenium	0.84	1.7 [2.2]	0.82	ND(0.59)
Silver	ND(1.3)	ND(1.7) [ND(1.7)]	ND(1.4)	ND(1.2)
Sulfide	ND(269)	ND(331) [ND(332)]	ND(286)	269
Thallium	ND(1.3)	ND(3.3) [ND(3.3)]	ND(1.4)	ND(1.2)
Tin	ND(13.5)	ND(16.6) [2.8 J*]	ND(14.3)	ND(11.8)
Vanadium	15.4	16.8 [13.5]	13.6	11.1
Zinc	64.9	207 [208]	62.6	51.7
Cyanide	ND(3.4)	ND(4.1) [ND(4.2)]	ND(3.6)	ND(2.9)

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	ASB-23	ASB-24	ASB-26	ASB-25	ASB-26
Sample Depth (feet):	5 - 7	5 - 7	2 - 4	5 - 7	4 - 6
Date Collected:	19-Feb-98	19-Feb-98	17-Feb-98	19-Feb-98	17-Feb-98
Volatile Organics					
Acetone	ND(0.011)	ND(0.011)	ND(0.013)	ND(0.012) [ND(0.013)]	ND(0.012)
2-Butanone	ND(0.011)	ND(0.011)	ND(0.013)	ND(0.012) [ND(0.013)]	ND(0.012)
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	ND(0.37)	ND(0.36)	NA	ND(0.38) [ND(0.42)]	ND(0.40)
1,4-Dichlorobenzene	ND(0.37)	ND(0.36)	NA	ND(0.38) [ND(0.42)]	ND(0.40)
Acenaphthene	ND(0.37)	ND(0.36)	NA	ND(0.38) [ND(0.42)]	0.050 J
Acenaphthylene	ND(0.37)	ND(0.36)	NA	ND(0.38) [ND(0.42)]	0.11 J
Anthracene	ND(0.37)	ND(0.36)	NA	ND(0.38) [ND(0.42)]	0.15 J
Benzo(a)anthracene	ND(0.37)	ND(0.36)	NA	ND(0.38) [0.068 J]	0.79
Benzo(a)pyrene	ND(0.37)	ND(0.36)	NA	ND(0.38) [0.066 J]	0.95
Benzo(b)fluoranthene	ND(0.37)	ND(0.36)	NA	ND(0.38) [0.065 J]	0.83
Benzo(g,h,i)perylene	ND(0.37)	ND(0.36)	NA	ND(0.38) [ND(0.42)]	0.79
Benzo(k)fluoranthene	ND(0.37)	ND(0.36)	NA	ND(0.38) [0.075 J]	0.72
Bis(2-ethylhexyl)phthalate	ND(0.37)	ND(0.36)	NA	ND(0.38) [ND(0.42)]	ND(0.40)
Chrysene	ND(0.37)	ND(0.36)	NA	ND(0.38) [0.088 J]	1.2
Di-n-butylphthalate	ND(0.37)	ND(0.36)	NA	ND(0.38) [ND(0.42)]	ND(0.40)
Di-n-octylphthalate	ND(0.37)	ND(0.36)	NA	ND(0.38) [ND(0.42)]	ND(0.40)
Dibenz(a,h)anthracene	ND(0.37)	ND(0.36)	NA	ND(0.38) [ND(0.42)]	0.24 J
Fluoranthene	ND(0.37)	ND(0.36)	NA	ND(0.38) [0.16 J)]	1.8
Fluorene	ND(0.37)	ND(0.36)	NA	ND(0.38) [ND(0.42)]	0.14 J
Indeno(1,2,3-cd)pyrene	ND(0.37)	ND(0.36)	NA	ND(0.38) [ND(0.42)]	0.77
Phenanthrene	ND(0.37)	ND(0.36)	NA	ND(0.38) [0.11 J]	1.5
Pyrene	ND(0.37)	ND(0.36)	NA	ND(0.38) [0.12 J]	2.0

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	ASB-23	ASB-24	ASB-26	ASB-25	ASB-26
Sample Depth (feet):	5 - 7	5 - 7	2 - 4	5 - 7	4 - 6
Date Collected:	19-Feb-98	19-Feb-98	17-Feb-98	19-Feb-98	17-Feb-98
Furans					
2,3,7,8-TCDF	ND(0.00000026)	ND(0.00000036)	NA	0.0000017 g [0.0000019 g]	0.0000048
TCDFs (total)	ND(0.00000026)	ND(0.00000041)	NA	0.000011 J~ [0.000021 J~]	0.000051
1,2,3,7,8-PeCDF	ND(0.00000069)	ND(0.00000022)	NA	ND(0.00000045) [ND(0.00000085)]	ND(0.0000012)
2,3,4,7,8-PeCDF	ND(0.00000066)	ND(0.00000023)	NA	ND(0.00000038) [ND(0.000012)]	ND(0.0000029)
PeCDFs (total)	ND(0.00000069)	ND(0.00000090)	NA	ND(0.0000020) J~ [0.000032 J~]	0.000058
1,2,3,4,7,8-HxCDF	ND(0.00000046)	ND(0.00000041)	NA	ND(0.00000065) [0.0000039 J**]	0.0000088
1,2,3,6,7,8-HxCDF	ND(0.00000047)	ND(0.00000042)	NA	ND(0.00000068) [0.0000031 J**]	0.0000039 J**
2,3,4,6,7,8-HxCDF	ND(0.00000049)	ND(0.00000044)	NA	ND(0.00000070) J~ [0.0000027 J~]	ND(0.0000030)
1,2,3,7,8,9-HxCDF	ND(0.00000056)	ND(0.00000051)	NA	ND(0.00000082) [0.00000089]	ND(0.00000059)
HxCDFs (total)	ND(0.00000072)	ND(0.0000010)	NA	ND(0.0000010) J~ [0.000067 J~]	0.000081
1,2,3,4,6,7,8-HpCDF	ND(0.00000047)	ND(0.00000033)	NA	ND(0.00000074) [ND(0.0000061)]	0.000012
1,2,3,4,7,8,9-HpCDF	ND(0.00000055)	ND(0.000000092)	NA	ND(0.00000022) [ND(0.0000015)]	0.0000044 J**
HpCDFs (total)	ND(0.00000055)	ND(0.00000033)	NA	ND(0.00000074) J~ [0.000016 J~]	0.000034
OCDF	ND(0.0000017)	ND(0.0000016)	NA	ND(0.0000031) [0.0000064 J**]	0.000038
Total Furans	ND(0.0000017)	ND(0.0000016)	NA	0.000011 [0.00014]	0.00026
Dioxins					
2,3,7,8-TCDD	ND(0.00000036)	ND(0.00000023)	NA	ND(0.00000036) [ND(0.00000046)]	ND(0.00000087)
TCDDs (total)	ND(0.00000036)	ND(0.00000023)	NA	ND(0.00000036) [ND(0.00000046)]	0.00000093
1,2,3,7,8-PeCDD	ND(0.00000068)	ND(0.00000062)	NA	ND(0.00000064) [ND(0.0000013)]	ND(0.0000013)
PeCDDs (total)	ND(0.00000068)	ND(0.00000062)	NA	ND(0.00000064) [ND(0.0000013)]	ND(0.0000031)
1,2,3,4,7,8-HxCDD	ND(0.00000049)	ND(0.00000048)	NA	ND(0.00000061) [ND(0.0000010)]	ND(0.00000069)
1,2,3,6,7,8-HxCDD	ND(0.00000051)	ND(0.00000049)	NA	ND(0.00000064) [ND(0.0000011)]	ND(0.0000013)
1,2,3,7,8,9-HxCDD	ND(0.00000049)	ND(0.00000047)	NA	ND(0.00000060) [ND(0.0000010)]	ND(0.0000015)
HxCDDs (total)	ND(0.00000051)	ND(0.00000049)	NA	ND(0.00000064) [ND(0.0000011)]	0.0000064
1,2,3,4,6,7,8-HpCDD	ND(0.00000036)	ND(0.00000049)	NA	ND(0.00000054) [ND(0.0000021)]	0.0000050 J**
HpCDDs (total)	ND(0.00000036)	ND(0.00000049)	NA	ND(0.00000054) [ND(0.0000021)]	0.000011
OCDD	ND(0.0000017)	ND(0.0000028)	NA	ND(0.0000043) J~ [0.000013 J~]	0.000033
Total Dioxins	ND(0.0000017)	ND(0.0000028)	NA	ND(0.0000043) [0.000013]	0.000051

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	ASB-23	ASB-24	ASB-26	ASB-25	ASB-26
Sample Depth (feet):	5 - 7	5 - 7	2 - 4	5 - 7	4 - 6
Date Collected:	19-Feb-98	19-Feb-98	17-Feb-98	19-Feb-98	17-Feb-98
Organochlorine Pesticides					
4,4'-DDE	ND(0.0019)	ND(0.0018)	NA	ND(0.0020) [ND(0.0022)]	ND(0.010)
Dieldrin	ND(0.0019)	ND(0.0018)	NA	ND(0.0020) J~ [0.0093 J~]	ND(0.010)
Inorganics					
Arsenic	8.0	5.5	NA	5.0 [5.9]	3.6
Barium	29.9	19.0 J*	NA	49.0 [34.9]	19.9 J*
Beryllium	0.21 J*	0.18 J*	NA	0.35 J* [0.36 J*]	0.17 J*
Cadmium	ND(0.57)	ND(0.54)	NA	ND(0.58) [ND(0.64)]	ND(0.61)
Chromium	6.0	6.7	NA	8.9 [10.8]	6.7
Cobalt	14.4	10.8	NA	9.3 [10.2]	7.6
Copper	19.5	12.9	NA	15.2 [19.2]	13.7
Lead	12.6	12.6	NA	9.7 [9.1]	16.3
Mercury	ND(0.033)	ND(0.043)	NA	ND(0.036) [ND(0.052)]	0.015 J*
Nickel	17.1	14.3	NA	12.2 [16.8]	11.7
Selenium	0.40 J*	ND(0.54)	NA	1.5 [0.99]	0.82
Silver	ND(1.1)	ND(1.1)	NA	ND(1.2) [ND(1.3)]	ND(1.2)
Sulfide	ND(227)	ND(218)	NA	ND(231) [ND(228)]	ND(242)
Thallium	ND(1.1)	ND(1.1)	NA	ND(2.3) [ND(1.3)]	ND(1.2)
Tin	ND(11.4)	ND(10.9)	NA	ND(11.5) [ND(12.8)]	1.0 J*
Vanadium	7.1	8.2	NA	11.0 [12.1]	7.1
Zinc	56.6	54.0	NA	57.5 [59.3]	65.1
Cyanide	ND(2.8)	ND(2.7)	NA	ND(2.9) [ND(1.8)]	ND(3.0)

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	ASB-26	ASB-26	ASB-27	ASB-27	ASB-27
Sample Depth (feet):	6 - 8	8 - 10	2 - 4	4 - 6	6 - 8
Date Collected:	17-Feb-98	17-Feb-98	17-Feb-98	17-Feb-98	17-Feb-98
Volatile Organics					
Acetone	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.012)	0.047
2-Butanone	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.012)	0.015
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	ND(0.40)	NA
1,4-Dichlorobenzene	NA	NA	NA	ND(0.40)	NA
Acenaphthene	NA	NA	NA	ND(0.40)	NA
Acenaphthylene	NA	NA	NA	0.10 J	NA
Anthracene	NA	NA	NA	0.056 J	NA
Benzo(a)anthracene	NA	NA	NA	0.20 J	NA
Benzo(a)pyrene	NA	NA	NA	0.27 J	NA
Benzo(b)fluoranthene	NA	NA	NA	0.22 J	NA
Benzo(g,h,i)perylene	NA	NA	NA	ND(0.40)	NA
Benzo(k)fluoranthene	NA	NA	NA	0.22 J	NA
Bis(2-ethylhexyl)phthalate	NA	NA	NA	ND(0.40)	NA
Chrysene	NA	NA	NA	0.42	NA
Di-n-butylphthalate	NA	NA	NA	ND(0.40)	NA
Di-n-octylphthalate	NA	NA	NA	ND(0.40)	NA
Dibenz(a,h)anthracene	NA	NA	NA	ND(0.40)	NA
Fluoranthene	NA	NA	NA	0.52	NA
Fluorene	NA	NA	NA	0.062 J	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	0.20 J	NA
Phenanthrene	NA	NA	NA	0.46	NA
Pyrene	NA	NA	NA	0.67	NA

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	ASB-26	ASB-26	ASB-27	ASB-27	ASB-27
Sample Depth (feet):	6 - 8	8 - 10	2 - 4	4 - 6	6 - 8
Date Collected:	17-Feb-98	17-Feb-98	17-Feb-98	17-Feb-98	17-Feb-98
Furans					
2,3,7,8-TCDF	NA	NA	NA	0.000013 g	NA
TCDFs (total)	NA	NA	NA	0.00010	NA
1,2,3,7,8-PeCDF	NA	NA	NA	ND(0.0000016)	NA
2,3,4,7,8-PeCDF	NA	NA	NA	ND(0.0000017)	NA
PeCDFs (total)	NA	NA	NA	0.000026	NA
1,2,3,4,7,8-HxCDF	NA	NA	NA	ND(0.0000018)	NA
1,2,3,6,7,8-HxCDF	NA	NA	NA	ND(0.00000085)	NA
2,3,4,6,7,8-HxCDF	NA	NA	NA	ND(0.00000093)	NA
1,2,3,7,8,9-HxCDF	NA	NA	NA	ND(0.00000015)	NA
HxCDFs (total)	NA	NA	NA	0.0000096	NA
1,2,3,4,6,7,8-HpCDF	NA	NA	NA	ND(0.0000022)	NA
1,2,3,4,7,8,9-HpCDF	NA	NA	NA	ND(0.00000037)	NA
HpCDFs (total)	NA	NA	NA	ND(0.0000022)	NA
OCDF	NA	NA	NA	0.0000041	NA
Total Furans	NA	NA	NA	0.00014	NA
Dioxins					
2,3,7,8-TCDD	NA	NA	NA	ND(0.00000026)	NA
TCDDs (total)	NA	NA	NA	ND(0.00000059)	NA
1,2,3,7,8-PeCDD	NA	NA	NA	ND(0.00000036)	NA
PeCDDs (total)	NA	NA	NA	ND(0.0000018)	NA
1,2,3,4,7,8-HxCDD	NA	NA	NA	ND(0.00000074)	NA
1,2,3,6,7,8-HxCDD	NA	NA	NA	ND(0.00000062)	NA
1,2,3,7,8,9-HxCDD	NA	NA	NA	ND(0.00000065)	NA
HxCDDs (total)	NA	NA	NA	ND(0.00000074)	NA
1,2,3,4,6,7,8-HpCDD	NA	NA	NA	ND(0.00000070)	NA
HpCDDs (total)	NA	NA	NA	ND(0.00000070)	NA
OCDD	NA	NA	NA	ND(0.0000031)	NA
Total Dioxins	NA	NA	NA	ND(0.0000031)	NA

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	ASB-26	ASB-26	ASB-27	ASB-27	ASB-27
Sample Depth (feet):	6 - 8	8 - 10	2 - 4	4 - 6	6 - 8
Date Collected:	17-Feb-98	17-Feb-98	17-Feb-98	17-Feb-98	17-Feb-98
Organochlorine Pesticides					
4,4'-DDE	NA	NA	NA	ND(0.021)	NA
Dieldrin	NA	NA	NA	ND(0.021)	NA
Inorganics					
Arsenic	NA	NA	NA	4.9	NA
Barium	NA	NA	NA	27.4	NA
Beryllium	NA	NA	NA	0.26 J*	NA
Cadmium	NA	NA	NA	ND(0.61)	NA
Chromium	NA	NA	NA	7.5	NA
Cobalt	NA	NA	NA	11.6	NA
Copper	NA	NA	NA	16.8	NA
Lead	NA	NA	NA	10.7	NA
Mercury	NA	NA	NA	0.011 J*	NA
Nickel	NA	NA	NA	17.8	NA
Selenium	NA	NA	NA	0.49 J*	NA
Silver	NA	NA	NA	ND(1.2)	NA
Sulfide	NA	NA	NA	ND(243)	NA
Thallium	NA	NA	NA	ND(1.2)	NA
Tin	NA	NA	NA	ND(12.2)	NA
Vanadium	NA	NA	NA	8.3	NA
Zinc	NA	NA	NA	64.6	NA
Cyanide	NA	NA	NA	ND(3.0)	NA

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	ASB-27	ASB-28	ASB-29	ASB-29	ASB-30
Sample Depth (feet):	8 - 10	8 - 10	2 - 4	4 - 6	2 - 4
Date Collected:	17-Feb-98	17-Feb-98	18-Feb-98	18-Feb-98	18-Feb-98
Volatile Organics					
Acetone	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.011)	ND(0.012)
2-Butanone	ND(0.012)	ND(0.012)	ND(0.012)	ND(0.011)	ND(0.012)
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	NA	ND(0.41)	NA	ND(0.37)	ND(0.39)
1,4-Dichlorobenzene	NA	ND(0.41)	NA	ND(0.37)	ND(0.39)
Acenaphthene	NA	ND(0.41)	NA	ND(0.37)	ND(0.39)
Acenaphthylene	NA	ND(0.41)	NA	ND(0.37)	ND(0.39)
Anthracene	NA	ND(0.41)	NA	ND(0.37)	ND(0.39)
Benzo(a)anthracene	NA	ND(0.41)	NA	ND(0.37)	ND(0.39)
Benzo(a)pyrene	NA	ND(0.41)	NA	ND(0.37)	ND(0.39)
Benzo(b)fluoranthene	NA	ND(0.41)	NA	ND(0.37)	ND(0.39)
Benzo(g,h,i)perylene	NA	ND(0.41)	NA	ND(0.37)	ND(0.39)
Benzo(k)fluoranthene	NA	ND(0.41)	NA	ND(0.37)	ND(0.39)
Bis(2-ethylhexyl)phthalate	NA	ND(0.41)	NA	ND(0.37)	ND(0.39)
Chrysene	NA	ND(0.41)	NA	ND(0.37)	0.057 J
Di-n-butylphthalate	NA	ND(0.41)	NA	ND(0.37)	ND(0.39)
Di-n-octylphthalate	NA	ND(0.41)	NA	ND(0.37)	ND(0.39)
Dibenz(a,h)anthracene	NA	ND(0.41)	NA	ND(0.37)	ND(0.39)
Fluoranthene	NA	ND(0.41)	NA	0.046 J	0.10 J
Fluorene	NA	ND(0.41)	NA	ND(0.37)	ND(0.39)
Indeno(1,2,3-cd)pyrene	NA	ND(0.41)	NA	ND(0.37)	ND(0.39)
Phenanthrene	NA	ND(0.41)	NA	ND(0.37)	0.051 J
Pyrene	NA	ND(0.41)	NA	ND(0.37)	0.10 J

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	ASB-27	ASB-28	ASB-29	ASB-29	ASB-30
Sample Depth (feet):	8 - 10	8 - 10	2 - 4	4 - 6	2 - 4
Date Collected:	17-Feb-98	17-Feb-98	18-Feb-98	18-Feb-98	18-Feb-98
Furans					
2,3,7,8-TCDF	NA	0.00000094 J**	NA	ND(0.0000013) J**	ND(0.000012) J**
TCDFs (total)	NA	0.0000024	NA	0.0000041	0.000071
1,2,3,7,8-PeCDF	NA	ND(0.00000057)	NA	ND(0.0000012)	ND(0.0000026)
2,3,4,7,8-PeCDF	NA	ND(0.00000057)	NA	ND(0.00000080)	0.0000059 J**
PeCDFs (total)	NA	ND(0.00000074)	NA	0.0000081	0.000085
1,2,3,4,7,8-HxCDF	NA	ND(0.00000065)	NA	ND(0.0000026)	0.000013
1,2,3,6,7,8-HxCDF	NA	ND(0.00000061)	NA	ND(0.0000020)	0.0000063 J**
2,3,4,6,7,8-HxCDF	NA	ND(0.00000066)	NA	ND(0.00000059)	0.0000035 J**
1,2,3,7,8,9-HxCDF	NA	ND(0.00000077)	NA	ND(0.00000057)	ND(0.00000047)
HxCDFs (total)	NA	ND(0.00000077)	NA	0.0000094	0.000091
1,2,3,4,6,7,8-HpCDF	NA	ND(0.00000056)	NA	0.0000042 J**	0.000020
1,2,3,4,7,8,9-HpCDF	NA	ND(0.00000027)	NA	ND(0.0000019)	0.0000058 J**
HpCDFs (total)	NA	ND(0.00000078)	NA	0.000010	0.000047
OCDF	NA	ND(0.0000035)	NA	0.000015	0.000045
Total Furans	NA	0.0000024	NA	0.000047	0.00034
Dioxins					
2,3,7,8-TCDD	NA	ND(0.00000039)	NA	ND(0.00000040)	ND(0.000000051)
TCDDs (total)	NA	ND(0.00000039)	NA	ND(0.00000040)	0.0000039
1,2,3,7,8-PeCDD	NA	ND(0.00000083)	NA	ND(0.00000052)	ND(0.0000012)
PeCDDs (total)	NA	ND(0.00000083)	NA	ND(0.0000011)	ND(0.0000060)
1,2,3,4,7,8-HxCDD	NA	ND(0.00000078)	NA	ND(0.00000044)	ND(0.000000078)
1,2,3,6,7,8-HxCDD	NA	ND(0.00000066)	NA	ND(0.00000045)	ND(0.0000023)
1,2,3,7,8,9-HxCDD	NA	ND(0.00000069)	NA	ND(0.00000047)	ND(0.0000019)
HxCDDs (total)	NA	ND(0.00000078)	NA	ND(0.0000012)	0.0000083
1,2,3,4,6,7,8-HpCDD	NA	ND(0.0000039)	NA	ND(0.0000015)	0.000015
HpCDDs (total)	NA	ND(0.00000043)	NA	ND(0.0000015)	0.000029
OCDD	NA	ND(0.0000039)	NA	0.0000077 J**	0.00010
Total Dioxins	NA	ND(0.0000039)	NA	0.0000077	0.00014

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	ASB-27	ASB-28	ASB-29	ASB-29	ASB-30
Sample Depth (feet):	8 - 10	8 - 10	2 - 4	4 - 6	2 - 4
Date Collected:	17-Feb-98	17-Feb-98	18-Feb-98	18-Feb-98	18-Feb-98
Organochlorine Pesticides					
4,4'-DDE	NA	ND(0.0021)	NA	ND(0.0077)	ND(0.079)
Dieldrin	NA	ND(0.0021)	NA	ND(0.0077)	ND(0.079)
Inorganics					
Arsenic	NA	2.7	NA	3.6	3.2
Barium	NA	21.4 J*	NA	27.2	45.3
Beryllium	NA	0.29 J*	NA	0.23 J*	0.29 J*
Cadmium	NA	ND(0.62)	NA	ND(0.57)	ND(0.58)
Chromium	NA	11.7	NA	7.1	10.5
Cobalt	NA	13.1	NA	7.6	7.3
Copper	NA	21.5	NA	12.2	14.3
Lead	NA	7.7	NA	6.0	7.5
Mercury	NA	0.0051 J*	NA	ND(0.027)	0.13
Nickel	NA	21.1	NA	12.2	13.2
Selenium	NA	0.69	NA	0.41 J*	ND(0.58)
Silver	NA	ND(1.2)	NA	ND(1.1)	ND(1.2)
Sulfide	NA	ND(249)	NA	ND(227)	ND(234)
Thallium	NA	ND(1.2)	NA	ND(1.1)	ND(1.2)
Tin	NA	ND(12.5)	NA	ND(11.3)	ND(11.7)
Vanadium	NA	11.0	NA	7.7	10.6
Zinc	NA	68.9	NA	41.1	42.2
Cyanide	NA	ND(3.1)	NA	ND(2.8)	ND(2.9)

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	ASB-30	ASB-31	ASB-31	ASB-31	ASB-31
Sample Depth (feet):	10 - 12	2 - 4	4 - 6	6 - 8	8 - 10
Date Collected:	18-Feb-98	18-Feb-98	18-Feb-98	18-Feb-98	18-Feb-98
Volatile Organics					
Acetone	ND(0.012)	ND(0.012)	ND(0.011)	ND(0.012)	ND(0.012)
2-Butanone	ND(0.012)	ND(0.012)	ND(0.011)	ND(0.012)	ND(0.012)
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	NA	NA	0.018 J	NA	NA
1,4-Dichlorobenzene	NA	NA	0.15 J	NA	NA
Acenaphthene	NA	NA	ND(0.37)	NA	NA
Acenaphthylene	NA	NA	ND(0.37)	NA	NA
Anthracene	NA	NA	ND(0.37)	NA	NA
Benzo(a)anthracene	NA	NA	ND(0.37)	NA	NA
Benzo(a)pyrene	NA	NA	ND(0.37)	NA	NA
Benzo(b)fluoranthene	NA	NA	ND(0.37)	NA	NA
Benzo(g,h,i)perylene	NA	NA	ND(0.37)	NA	NA
Benzo(k)fluoranthene	NA	NA	ND(0.37)	NA	NA
Bis(2-ethylhexyl)phthalate	NA	NA	ND(0.37)	NA	NA
Chrysene	NA	NA	ND(0.37)	NA	NA
Di-n-butylphthalate	NA	NA	ND(0.37)	NA	NA
Di-n-octylphthalate	NA	NA	ND(0.37)	NA	NA
Dibenz(a,h)anthracene	NA	NA	ND(0.37)	NA	NA
Fluoranthene	NA	NA	ND(0.37)	NA	NA
Fluorene	NA	NA	ND(0.37)	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	ND(0.37)	NA	NA
Phenanthrene	NA	NA	ND(0.37)	NA	NA
Pyrene	NA	NA	ND(0.37)	NA	NA

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	ASB-30	ASB-31	ASB-31	ASB-31	ASB-31
Sample Depth (feet):	10 - 12	2 - 4	4 - 6	6 - 8	8 - 10
Date Collected:	18-Feb-98	18-Feb-98	18-Feb-98	18-Feb-98	18-Feb-98
Furans					
2,3,7,8-TCDF	NA	NA	ND(0.000017) J**	NA	NA
TCDFs (total)	NA	NA	0.00052	NA	NA
1,2,3,7,8-PeCDF	NA	NA	0.000018	NA	NA
2,3,4,7,8-PeCDF	NA	NA	0.000053	NA	NA
PeCDFs (total)	NA	NA	0.0069	NA	NA
1,2,3,4,7,8-HxCDF	NA	NA	0.00064	NA	NA
1,2,3,6,7,8-HxCDF	NA	NA	ND(0.00092) J**	NA	NA
2,3,4,6,7,8-HxCDF	NA	NA	0.0012	NA	NA
1,2,3,7,8,9-HxCDF	NA	NA	0.0000049 J**	NA	NA
HxCDFs (total)	NA	NA	0.034	NA	NA
1,2,3,4,6,7,8-HpCDF	NA	NA	0.0084	NA	NA
1,2,3,4,7,8,9-HpCDF	NA	NA	0.00034	NA	NA
HpCDFs (total)	NA	NA	0.019	NA	NA
OCDF	NA	NA	0.0024	NA	NA
Total Furans	NA	NA	0.063	NA	NA
Dioxins					
2,3,7,8-TCDD	NA	NA	0.0000033	NA	NA
TCDDs (total)	NA	NA	0.00014	NA	NA
1,2,3,7,8-PeCDD	NA	NA	0.000067	NA	NA
PeCDDs (total)	NA	NA	0.00037	NA	NA
1,2,3,4,7,8-HxCDD	NA	NA	0.000070	NA	NA
1,2,3,6,7,8-HxCDD	NA	NA	0.000083	NA	NA
1,2,3,7,8,9-HxCDD	NA	NA	0.00011	NA	NA
HxCDDs (total)	NA	NA	0.0016	NA	NA
1,2,3,4,6,7,8-HpCDD	NA	NA	0.00026	NA	NA
HpCDDs (total)	NA	NA	0.00076	NA	NA
OCDD	NA	NA	0.00047	NA	NA
Total Dioxins	NA	NA	0.0033	NA	NA

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	ASB-30	ASB-31	ASB-31	ASB-31	ASB-31
Sample Depth (feet):	10 - 12	2 - 4	4 - 6	6 - 8	8 - 10
Date Collected:	18-Feb-98	18-Feb-98	18-Feb-98	18-Feb-98	18-Feb-98
Organochlorine Pesticides					
4,4'-DDE	NA	NA	ND(0.24)	NA	NA
Dieldrin	NA	NA	ND(0.24)	NA	NA
Inorganics					
Arsenic	NA	NA	6.7	NA	NA
Barium	NA	NA	23.6	NA	NA
Beryllium	NA	NA	0.22 J*	NA	NA
Cadmium	NA	NA	ND(0.56)	NA	NA
Chromium	NA	NA	7.0	NA	NA
Cobalt	NA	NA	7.4	NA	NA
Copper	NA	NA	16.2	NA	NA
Lead	NA	NA	8.9	NA	NA
Mercury	NA	NA	ND(0.044)	NA	NA
Nickel	NA	NA	12.5	NA	NA
Selenium	NA	NA	0.60	NA	NA
Silver	NA	NA	ND(1.1)	NA	NA
Sulfide	NA	NA	ND(224)	NA	NA
Thallium	NA	NA	ND(1.1)	NA	NA
Tin	NA	NA	ND(11.2)	NA	NA
Vanadium	NA	NA	5.9	NA	NA
Zinc	NA	NA	43.8	NA	NA
Cyanide	NA	NA	ND(2.8)	NA	NA

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	ASB-31	ASB-32	ASB-33	ASB-34	ASB-34
Sample Depth (feet):	10 - 12	8 - 10	2 - 4	4 - 6	6 - 8
Date Collected:	18-Feb-98	18-Feb-98	18-Feb-98	18-Feb-98	18-Feb-98
Volatile Organics					
Acetone	ND(0.012)	ND(0.012)	ND(0.013)	ND(0.016)	ND(0.017)
2-Butanone	ND(0.012)	ND(0.012)	ND(0.013)	ND(0.016)	ND(0.017)
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	NA	ND(0.41)	ND(0.42)	NA	ND(0.56)
1,4-Dichlorobenzene	NA	ND(0.41)	ND(0.42)	NA	ND(0.56)
Acenaphthene	NA	ND(0.41)	ND(0.42)	NA	ND(0.56)
Acenaphthylene	NA	ND(0.41)	ND(0.42)	NA	ND(0.56)
Anthracene	NA	ND(0.41)	ND(0.42)	NA	ND(0.56)
Benzo(a)anthracene	NA	ND(0.41)	ND(0.42)	NA	ND(0.56)
Benzo(a)pyrene	NA	ND(0.41)	ND(0.42)	NA	ND(0.56)
Benzo(b)fluoranthene	NA	ND(0.41)	ND(0.42)	NA	ND(0.56)
Benzo(g,h,i)perylene	NA	ND(0.41)	ND(0.42)	NA	ND(0.56)
Benzo(k)fluoranthene	NA	ND(0.41)	ND(0.42)	NA	ND(0.56)
Bis(2-ethylhexyl)phthalate	NA	ND(0.41)	0.13 J	NA	0.27 J
Chrysene	NA	ND(0.41)	ND(0.42)	NA	ND(0.56)
Di-n-butylphthalate	NA	ND(0.41)	ND(0.42)	NA	ND(0.56)
Di-n-octylphthalate	NA	ND(0.41)	ND(0.42)	NA	ND(0.56)
Dibenz(a,h)anthracene	NA	ND(0.41)	ND(0.42)	NA	ND(0.56)
Fluoranthene	NA	ND(0.41)	0.046 J	NA	0.11 J
Fluorene	NA	ND(0.41)	ND(0.42)	NA	ND(0.56)
Indeno(1,2,3-cd)pyrene	NA	ND(0.41)	ND(0.42)	NA	ND(0.56)
Phenanthrene	NA	ND(0.41)	ND(0.42)	NA	ND(0.56)
Pyrene	NA	ND(0.41)	ND(0.42)	NA	0.099 J

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	ASB-31	ASB-32	ASB-33	ASB-34	ASB-34
Sample Depth (feet):	10 - 12	8 - 10	2 - 4	4 - 6	6 - 8
Date Collected:	18-Feb-98	18-Feb-98	18-Feb-98	18-Feb-98	18-Feb-98
Furans					
2,3,7,8-TCDF	NA	ND(0.00000029)	ND(0.00000063) J**	NA	ND(0.0000058) J**
TCDFs (total)	NA	ND(0.0000011)	0.00000063	NA	0.000056
1,2,3,7,8-PeCDF	NA	ND(0.00000050)	ND(0.00000063)	NA	ND(0.0000011)
2,3,4,7,8-PeCDF	NA	ND(0.00000051)	ND(0.00000066)	NA	ND(0.0000017)
PeCDFs (total)	NA	ND(0.0000012)	ND(0.0000022)	NA	0.000052
1,2,3,4,7,8-HxCDF	NA	ND(0.00000064)	ND(0.00000091)	NA	0.0000097
1,2,3,6,7,8-HxCDF	NA	ND(0.00000067)	ND(0.00000095)	NA	0.0000093 J**
2,3,4,6,7,8-HxCDF	NA	ND(0.00000069)	ND(0.00000099)	NA	ND(0.0000026)
1,2,3,7,8,9-HxCDF	NA	ND(0.00000080)	ND(0.0000026)	NA	ND(0.0000014)
HxCDFs (total)	NA	ND(0.00000080)	ND(0.00000091)	NA	0.000070
1,2,3,4,6,7,8-HpCDF	NA	ND(0.00000050)	ND(0.0000024)	NA	0.000018
1,2,3,4,7,8,9-HpCDF	NA	ND(0.00000060)	ND(0.00000043)	NA	0.0000058 J**
HpCDFs (total)	NA	ND(0.00000060)	ND(0.0000024)	NA	0.000045
OCDF	NA	ND(0.0000021)	ND(0.0000045)	NA	0.000043
Total Furans	NA	ND(0.0000021)	0.00000063	NA	0.00027
Dioxins					
2,3,7,8-TCDD	NA	ND(0.00000030)	ND(0.00000029)	NA	ND(0.000000059)
TCDDs (total)	NA	ND(0.00000030)	ND(0.00000029)	NA	0.0000010
1,2,3,7,8-PeCDD	NA	ND(0.00000039)	ND(0.00000033)	NA	ND(0.0000010)
PeCDDs (total)	NA	ND(0.00000098)	ND(0.00000089)	NA	ND(0.0000027)
1,2,3,4,7,8-HxCDD	NA	ND(0.00000064)	ND(0.00000075)	NA	ND(0.000000081)
1,2,3,6,7,8-HxCDD	NA	ND(0.00000066)	ND(0.00000076)	NA	ND(0.000000084)
1,2,3,7,8,9-HxCDD	NA	ND(0.00000063)	ND(0.00000074)	NA	ND(0.000000079)
HxCDDs (total)	NA	ND(0.00000066)	ND(0.00000076)	NA	ND(0.0000030)
1,2,3,4,6,7,8-HpCDD	NA	ND(0.00000040)	ND(0.0000017)	NA	ND(0.0000031)
HpCDDs (total)	NA	ND(0.00000040)	ND(0.0000017)	NA	ND(0.0000031)
OCDD	NA	ND(0.00000069)	0.000019	NA	0.000015 J**
Total Dioxins	NA	ND(0.0000021)	0.000019	NA	0.000016

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	ASB-31	ASB-32	ASB-33	ASB-34	ASB-34
Sample Depth (feet):	10 - 12	8 - 10	2 - 4	4 - 6	6 - 8
Date Collected:	18-Feb-98	18-Feb-98	18-Feb-98	18-Feb-98	18-Feb-98
Organochlorine Pesticides					
4,4'-DDE	NA	ND(0.0021)	ND(0.0043)	NA	ND(0.014)
Dieldrin	NA	ND(0.0021)	ND(0.0043)	NA	ND(0.014)
Inorganics					
Arsenic	NA	2.8	5.0	NA	6.1
Barium	NA	10.2 J*	87.3	NA	101
Beryllium	NA	0.18 J*	0.55 J*	NA	0.65 J*
Cadmium	NA	ND(0.62)	ND(0.64)	NA	ND(0.85)
Chromium	NA	5.3	19.7	NA	24.9
Cobalt	NA	6.6	16.5	NA	17.6
Copper	NA	11.7	28.2	NA	34.3
Lead	NA	5.1	10.8	NA	17.0
Mercury	NA	ND(0.030)	ND(0.083)	NA	ND(0.044)
Nickel	NA	ND(9.6)	24.6	NA	29.1
Selenium	NA	ND(0.62)	0.67	NA	1.3
Silver	NA	ND(1.2)	ND(1.3)	NA	ND(1.7)
Sulfide	NA	696	ND(255)	NA	1140
Thallium	NA	ND(1.2)	1.0 J*	NA	ND(1.7)
Tin	NA	ND(12.4)	ND(12.7)	NA	ND(17.0)
Vanadium	NA	4.9 J*	24.8	NA	27.9
Zinc	NA	39.1	75.2	NA	100
Cyanide	NA	ND(3.1)	ND(3.2)	NA	ND(4.3)

(See notes on page 22)

TABLE 2

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL APPENDIX IX+3 DATA - 1998
(Results are presented in dry-weight parts per million, ppm)

Notes:

1. Samples were collected by Blasland, bouck & Lee, Inc., and were submitted to Quanterra, Inc., for analysis of Appendix IX+3 constituents.
2. ND - Analyte was not detected. The number in parentheses is the associated quantitation limit for volatiles and semivolatile organic constituents and the associated detection limit for other constituents.
3. Duplicate analyses are shown in brackets.
4. g - 2,3,7,8-TCDF results have been confirmed on a DB-225 column.
5. J - Indicates an estimated value less than the CLP-required quantitation limit.
6. J* - Indicates an estimated value between the instrument detection limit and the CLP-required detection limit.
7. J** - Indicates an estimated value between the lower calibration limit and the target detection limit.
8. J~ - Indicates an estimated value due to data validation qualification.
9. NA - Not analyzed.
10. Total dioxins/furans determined as the sum of the total homolog concentrations; non-detect values were considered as zero.

TABLE 5

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

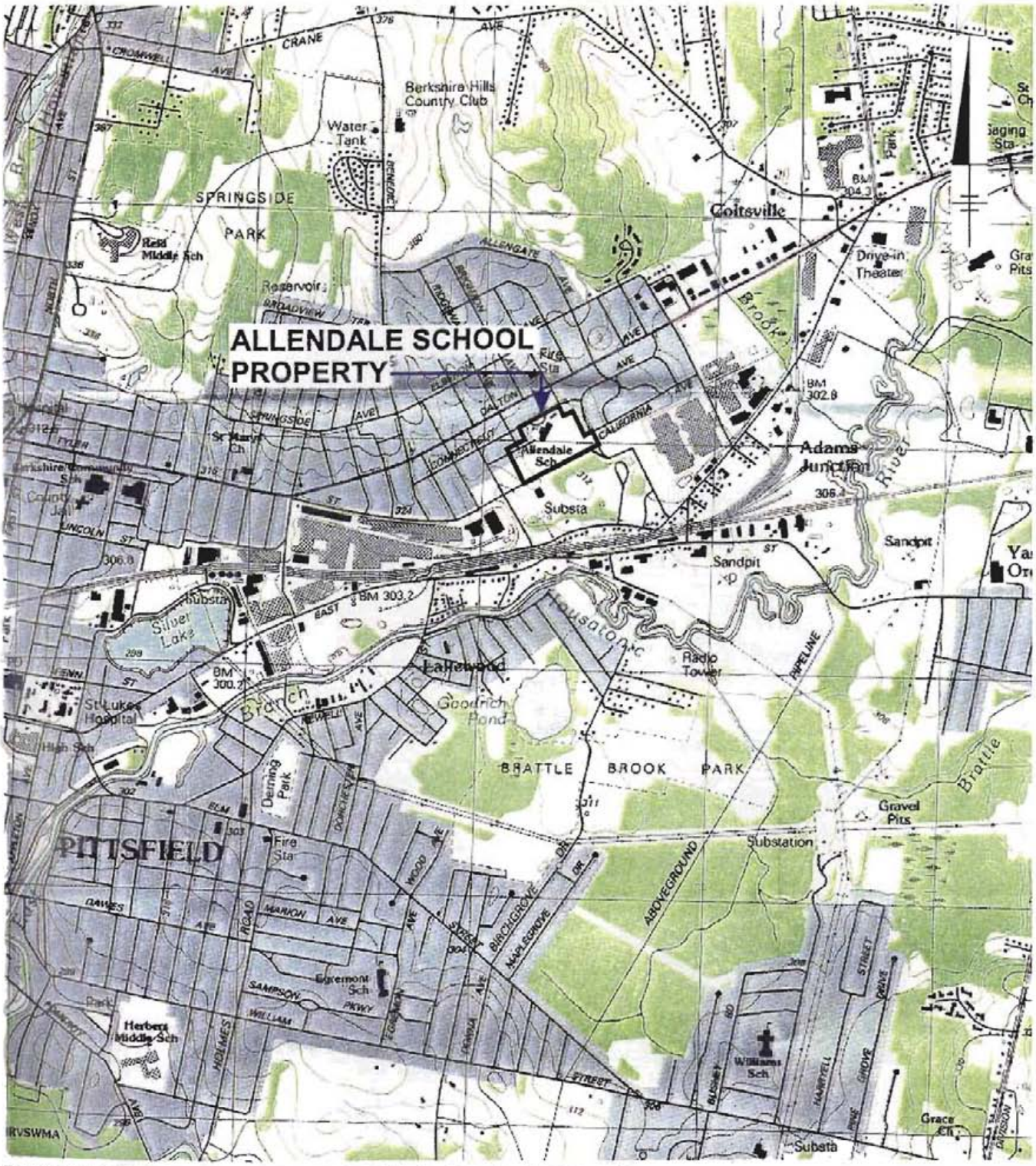
SUMMARY OF GROUNDWATER ELEVATION DATA - 1998

Well ID	Measuring Point Elevation (feet)	March 3, 1998		June 2, 1998	
		Depth to Groundwater (feet)	Water Elevation (feet)	Depth to Groundwater (feet)	Water Elevation (feet)
SCH-1	1017.13	8.45	1008.68	12.21	1004.92
SCH-2	1006.29	1.88	1004.41	4.38	1001.91
SCH-3	1011.86	3.35	1008.51	5.44	1006.42
SCH-4	1014.05	6.65	1007.40	8.82	1005.23
PZ-1	1008.35	5.85	1002.50	6.39	1001.96
PZ-2	1008.10	0.88	1007.22	1.51	1006.59
PZ-3	1007.63	15.32	992.31	14.61	993.02
PZ-4	1007.98	2.41	1005.57	3.39	1004.59
NY-4	1024.53	8.55	1015.98	9.22	1015.31
78-1	1026.34	7.54	1018.80	7.67	1018.67
78-6	1011.99	5.36	1006.63	9.70	1002.29

Notes:

1. All groundwater measurement and elevation data are in feet.
2. Reference elevation for monitoring wells is the top of the inside well casing.
3. Elevations are referenced as feet above mean sea level.

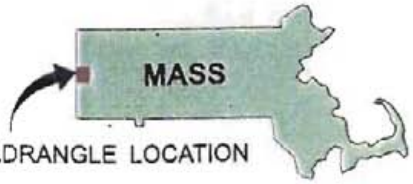
Figures



REFERENCE: PITTSFIELD EAST, MASS. USGS QUAD., 7.5 MIN. SERIES, 1988

2000' 0 2000'

APPROXIMATE SCALE: 1" = 2000'



QUADRANGLE LOCATION

6/98 SYR-D54-DJH YCC LBR
10184400/10184n01.CDR

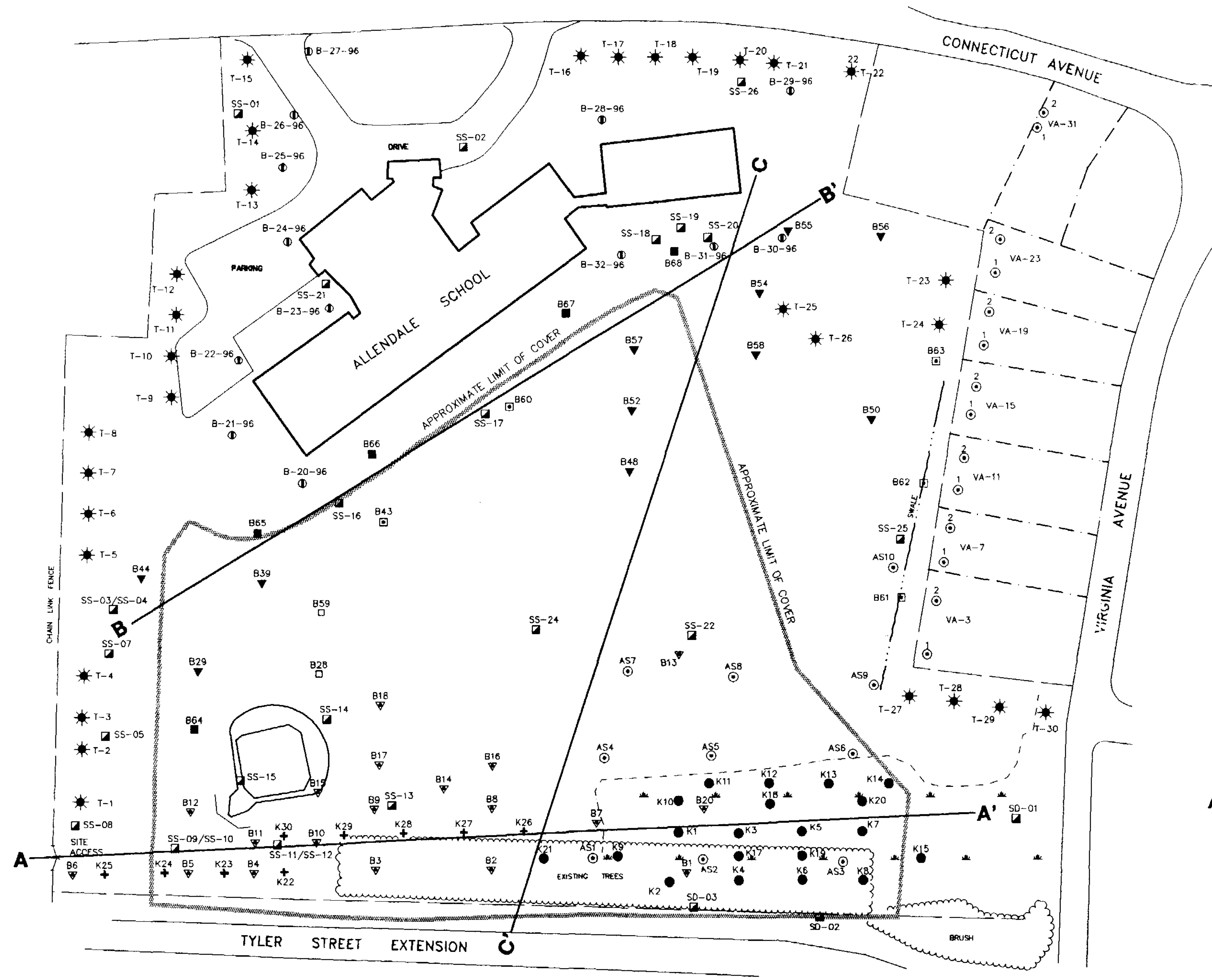
GENERAL ELECTRIC COMPANY, PITTSFIELD, MASSACHUSETTS

ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

LOCATION PLAN

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

FIGURE 1



LEGEND:

- SAMPLE CONCENTRATION GREATER THAN 2 ppm PCB
- EXISTING CHAIN LINK FENCE
- APPROXIMATE LOWLAND BOUNDARY
- EXISTING DRAINAGE SWALE
- EXISTING TREES AND BRUSH
- JANUARY 1990 – SAMPLING LOCATIONS
- APRIL 1990 – SAMPLING LOCATIONS
- JULY 1990 – SAMPLING LOCATIONS
- AUGUST 1990 – SAMPLING LOCATIONS
- AUGUST 17, 1990 – SAMPLING LOCATIONS
- AUGUST 23, 1990 – SAMPLING LOCATIONS
- AUGUST 24, 1990 – SAMPLING LOCATIONS
- AUGUST 27, 1990 – SAMPLING LOCATIONS
- FEBRUARY 1991 – SAMPLING LOCATIONS
- AUGUST 1996 – SAMPLING LOCATIONS
- NR NO RECOVERY
- * SAMPLES WERE ANALYZED FOR THE EPA APPENDIX IX LIST PLUS THREE ADDITIONAL CONSTITUENTS
- [ ] FIELD DUPLICATE
- A——A' TRANSECT

0 60' 120'
APPROXIMATE SCALE

NOTE:

AUGUST 1996 SAMPLING LOCATIONS ARE APPROXIMATE AND ARE BASED UPON FILE No. 9607A DATED AUGUST 28, 1996 BY GIFFORD ENGINEERING GEOTECHNICAL AND GEOENVIRONMENTAL SERVICES.

Sample	DEPTH(in)	PCBs(ppm)
T-1	0-12	0.019
T-1	12-24	0.019
T-1	24-36	<0.011
T-1	36-48	<0.011
T-2	0-12	0.06
T-2	12-24	<0.013
T-2	24-36	<0.011
T-2	36-48	<0.011
T-3	0-12	<0.014
T-3	12-24	<0.012
T-3	24-36	<0.012
T-3	36-48	<0.013
T-4	0-12	0.037
T-4	12-24	<0.011
T-4	24-36	<0.012
T-4	36-48	<0.010
T-5	0-12	0.015
T-5	12-24	<0.010
T-5	24-36	<0.011
T-5	36-48	<0.010
T-6	0-12	0.018
T-6	12-24	<0.013
T-6	24-36	0.02
T-6	36-48	<0.010
T-7	12-24	0.021
T-7	24-36	<0.012
T-7	36-48	<0.015
T-8	0-12	0.022
T-8	12-24	<0.012
T-8	24-36	<0.011
T-8	36-48	<0.011
T-9	0-12	0.095
T-9	12-24	0.027
T-9	24-36	<0.010
T-9	36-48	<0.010
T-10	0-12	0.104
T-10	12-24	0.012
T-10	24-36	<0.010
T-10	36-48	<0.010
T-11	0-12	0.012
T-11	12-24	0.097
T-11	24-36	<0.010
T-11	36-48	<0.011
T-12	0-12	0.022
T-12	12-24	<0.010
T-12	24-36	<0.010
T-12	36-48	<0.009
T-13	0-12	0.027
T-13	12-24	<0.010
T-13	24-36	<0.009
T-13	36-48	<0.010
T-14	0-12	0.016
T-14	12-24	<0.011
T-14	24-36	<0.009
T-14	36-48	<0.009
T-15	0-12	<0.012
T-15	12-24	<0.010
T-15	24-36	<0.008
T-15	36-48	<0.010
T-16	0-12	0.018
T-16	12-24	<0.009
T-16	24-36	<0.086
T-16	36-48	<0.011
T-17	0-12	<0.011
T-17	12-24	0.015
T-17	24-36	<0.011
T-17	36-48	<0.010
T-18	0-12	0.025
T-18	12-24	<0.010
T-18	24-36	<0.010
T-18	36-48	<0.010
T-19	0-12	<0.010
T-19	12-24	<0.010
T-19	24-36	<0.010
T-19	36-48	<0.010
T-20	0-12	0.014
T-20	12-24	<0.010
T-20	24-36	<0.010
T-20	36-48	<0.009
T-21	0-12	0.025
T-21	12-24	<0.010
T-21	24-36	<0.010
T-21	36-48	<0.009
T-22	0-12	0.086
T-22	12-24	0.018
T-22	24-36	0.014
T-22	36-48	<0.010
T-23	0-12	0.017
T-23	12-24	0.01
T-23	24-36	<0.012
T-23	36-48	<0.009
T-24	0-12	0.015
T-24	12-24	<0.009
T-24	24-36	<0.009
T-24	36-48	<0.009
T-25	0-12	0.042
T-25	12-24	0.05
T-25	24-36	<0.010
T-25	36-48	<0.010
T-26	0-12	0.37
T-26	12-24	0.78
T-26	24-36	0.024
T-26	36-48	<0.096
T-27	0-12	0.42
T-27	12-24	0.13
T-27	24-36	0.14
T-27	36-48	0.016
T-28	0-12	0.32
T-28	12-24	<0.116
T-28	24-36	<0.12
T-28	36-48	<0.12
T-29	0-12	1.2
T-29	12-24	0.114
T-29	24-36	<0.11
T-29	36-48	<0.12
T-30	0-12	0.29
T-30	12-24	1.89
T-30	24-36	<0.011
T-30	36-48	<0.013

Sample	DEPTH(in)	PCBs(ppm)
K1	0-3	1.2
K1	3-6	0.78
K1	6-12	1.1
K1	12-18	0.6
K2	0-3	23.0
K2	3-6	200.0
K2	6-12	85.0
K2	12-18	30.0
K3	0-3	1.8
K3	3-6	1.8
K3	6-12	1.4
K3	12-18	3.8
K4	0-3	2.1
K4	3-6	0.88
K4	6-12	7.3
K4	12-18	15.0
K5	0-3	2.9
K5	3-6	0.8
K5	6-12	4.9
K5	12-18	13.0
K6	0-3	17.5
K6	3-6	23.0
K6	6-12	1.3
K6	12-18	6.9
K7	0-3	1.3
K7	3-6	0.78
K7	6-12	0.56
K7	12-18	3.5
K8	0-3	8.8
K8	3-6	13.0
K8	6-12	10.6
K8	12-18	18.0
K9	0-3	4.8
K9	3-6	3.2
K9	6-12	3.6
K9	12-18	1.3
K10	0-3	1.1
K10	3-6	0.99
K10	6-12	1.3
K10	12-18	2.3
K11	0-3	0.44
K11	3-6	0.72
K11	6-12	0.51
K11	12-18	0.56
K12	0-3	0.26
K12	3-6	0.07
K12	6-12	0.65
K12	12-18	0.69
K13	0-3	0.40
K13	3-6	0.15
K13	6-12	0.17
K13	12-18	0.12
K14	0-3	0.35
K14	3-6	0.29
K14	6-12	0.63
K14	12-18	0.78
K15	0-3	0.52
K15	3-6	0.11
K15	6-12	0.25
K15	12-18	0.26
K16*	0-18	<0.8
K17*	0-18	2.6
K18*	0-18	0.96
K19*	0-18	4.6
K20*	0-18	1.7
K21	0-3	6.2
K21	3-6	8.8
K21	6-12	80.0
K21	12-18	41.0
K22	0-6	7.9
K22	6-12	14.0
K23	0-6	<2.0
K23	6-12	<2.0
K24	0-6	3.0
K24	6-12	3.4
K25	0-6	<2.0
K25	6-12	<2.0
K26	0-6	2.6
K26	6-12	7.0
K27	0-6	2.4
K27	6-12	37.0
K28	0-6	3.9
K28	6-12	15.0
K29	0-6	14.0
K29	6-12	22.0
K30	0-6	<2.0
K30	6-12	7.7

Sample	DEPTH(in)	PCBs(ppm)
VA7-1	0-3	<0.05
VA7-2	0-3	0.06
VA11-1	0-3	0.05
VA11-2	0-3	0.11
VA15-1	0-3	0.10
VA15-2	0-3	0.08
VA19-1	0-3	0.10
VA19-2	0-3	0.12
VA23-1	0-3	0.19
VA23-2	0-3	0.20
VA31-1	0-3	0.06
VA31-2	0-3	0.09

Sample	DEPTH(ft)	PCBs(ppm)
B-20-96	0.0-0.5	<1
B-20-96	0.5-2	<1
B-20-96	2-4	<1
B-20-96	4-6	<1
B-20-96	6-8	<1
B-20-96	8-10	5.42
B-20-96	10-12	<1
B-21-96	0.0-0.5	<1
B-21-96	0.5-2	<1
B-21-96	2-4	<1
B-21-96	4-6	10.6
B-21-96	6-8	<1
B-21-96	8-10	<1
B-22-96	0.0-0.5	<1
B-22-96	0.5-2	<1
B-22-96	2-4	29.4
B-22-96	4-6	2.73
B-23-96	0.0-0.5	<1
B-23-96	0.5-2	<1
B-23-96	2-4	<1
B-23-96	4-6	<1
B-24-96	0.0-0.5	<1
B-24-96	0.5-2	<1
B-24-96	2-4	<1
B-24-96	4-6	<1
B-25-96	0.0-0.5	<1
B-25-96	0.5-2	<1
B-25-96	2-4	<1
B-25-96	4-6	<1
B-26-96	0.0-0.5	<1
B-26-96	0.5-2	<1
B-26-96	2-4	<1
B-26-96	4-6	<1
B-27-96	0.0-0.5	<1
B-27-96	0.5-2	<1
B-27-96	2-4	<1
B-27-96	4-6	<1
B-28-96	0.0-0.5	<1
B-28-96	0.5-2	<1
B-28-96	2-4	<1
B-28-96	4-6	<1
B-29-96	0.0-0.5	<1
B-29-96	0.5-2	<1
B-29-96	2-4	<1
B-30-96	0.0-0.5	<1
B-30-96	0.5-2	<1
B-30-96	2-4	<1
B-30-96	4-6	<1
B-31-96	4-6	<1
B-31-96	6-8	<1
B-32-96	4-6	<1
B-32-96	6-8	<1

Sample	DEPTH(in)	PCBs(ppm)
AS1	0-3	.22
AS1	3-6	0.60
AS2	0-3	1.37
AS2	3-6	4.24
AS3	0-3	2.95
AS3	3-6	1.33
AS4	0-3	0.13
AS4	3-6	0.36
AS5	0-3	0.15
AS5	3-6	0.90
AS6	0-3	0.12
AS6	3-6	0.11
AS7	0-3	.11
AS7	3-6	.14
AS8	0-3	1.42
AS8	3-6	1.54
AS9	0-3	0.23
AS9	3-6	0.39
AS10	0-3	0.29
AS10	3-6	0.29
VA3-1	0-3	<0.05
VA3-2	0-3	<0.05

Sample	DEPTH(in)	PCBs(ppm)
B1	0-6	3.7
B1	6-12	16.0
B1	12-18	7.6
B1	18-24	3.9
B1	24-30	6.9
B1	30-36	15.0
B1	36-42	113.0
B1	42-48	14.0
B1	48-54	37.0
B1	54-60	78.0
B1	60-66	19.0
B1	66-72	<1.0
B2	0-6	2.6
B2	6-12	1.9
B2	12-18	4.6
B2	18-24	36.0
B2	24-30	340.0
B2	30-36	330.0
B2	36-42	89.0
B2	42-48	24.0
B3	0-6	6.8
B3	6-12	6.3
B3	12-18	4.3
B3	18-24	2.8
B3	24-30	<0.6
B3	30-36	NR
B3	36-42	<0.6
B3	42-48	<0.9
B4	0-6	1.3
B4	6-12	4.4
B4	12-18	2.7
B4	18-24	1.6
B4	24-30	7.7
B4	30-36	NR
B4	36-42	NR
B4	42-48	1.4
B4	48-54	<0.6
B5	0-6	1.9
B5	6-12	2.7
B5	12-18	1.2
B5	18-24	<1.0
B5	24-30	<1.0
B5	30-36	<1.0
B6	0-6	<0.7
B6	6-12	<0.6
B6	12-18	<0.6
B6	18-24	<0.6
B6	24-30	<0.6
B6	30-36	<0.6
B6	36-42	<0.6
B6	42-48	<0.6
B6	48-54	<0.6
B7	0-6	1.9
B7	6-12	0.6
B7	12-18	6.0
B7	18-24	11.0
B7	24-30	27.0
B7	30-36	12.0
B7	36-42	17.0
B7	42-48	18.0
B8	0-6	1.4
B8	6-12	1.4
B8	12-18	1.3
B8	18-24	80.0
B8	24-30	NR
B8	30-36	NR
B8	36-42	21.0
B8	42-48	2.3
B9	0-6	1.5
B9	6-12	1.0
B9	12-18	6.1
B9	18-24	130.0
B9	24-30	24.0
B9	30-36	93.0
B9	36-42	39.0
B9	42-48	23.0
B10	0-6	6.1
B10	6-12	7.7
B10	12-18	3.2
B10	18-24	13.0
B10	24-30	30.0
B10	30-36	1.5
B10	36-42	2.0
B10	42-48	<1.0
B11	0-6	<1.0
B11	6-12	<1.0
B11	12-18	<1.0
B11	18-24	<1.0
B11	24-30	<1.0
B11	30-36	<1.0
B12	0-6	<1.0
B12	6-12	<1.0
B12	12-18	<1.0
B12	18-24	<1.0
B12	24-30	<1.0
B12	30-36	<1.0
B13	0-6	<0.7
B14	0-6	5.8
B14	6-12	18.0
B14	12-18	3.8
B14	18-24	19.0
B14	24-30	6.3
B14	30-36	5.4
B14	36-42	4.1
B14	42-48	0.8
B15	0-6	<0.7
B15	6-12	4.5
B15	12-18	78.0
B15	18-24	30.0
B16	0-6	3.6
B16	6-12	0.8
B16	12-18	33.0
B16	18-24	103.0
B16	24-30	38.0
B16	30-36	29.0
B16	36-42	106.0
B16	42-48	33.0
B16	48-54	43.0
B16	54-60	3.6
B17	0-6	2.3
B17	6-12	1.0
B17	12-18	70.0
B17	18-24	62.0
B17	24-30	36.0
B17	30-36	47.0
B17	36-42	30.0
B17	42-48	30.0
B18	0-6	3.6
B18	6-12	9.0
B18	12-18	87.0
B18	18-24	1400.0
B18	24-30	34.0
B18	30-36	64.0
B18	36-42	3.7
B18	42-48	<0.8
B20	0-6	<0.7
B20	6-12	1.0
B20	12-18	8.8
B20	18-24	18.0
B20	24-30	36.0
B20	30-36	8.7
B20	36-42	13.0
B20	42-48	15.0
B20	48-54	2.6

Sample	DEPTH(in)	PCBs(ppm)
B28	0-6	0.6
B28	6-12	4.6
B29	0-6	<0.7
B29	6-12	<0.7
B39	0-6	<0.6
B39	6-12	<0.6
B43	0-6	<0.7
B43	6-12	<0.7
B44	0-6	<0.7
B44	6-12	<0.6
B48	0-6	<0.6
B48	6-12	[illegible]
B50	0-6	0.8
B50	6-12	0.6
B50	12-18	0.6
B50	18-24	1.9
B50	24-30	0.6
B50	30-36	0.6
B50	36-42	0.6
B50	42-48	0.6
B50	48-54	0.6
B50	54-60	0.6
B50	60-66	0.6
B50	66-72	0.6
B52	0-6	<0.7
B52	6-12	1.2
B54	0-6	<0.8
B54	6-12	<0.6
B55	0-6	<0.8
B55	6-12	<0.7
B55	12-18	<0.7
B55	18-24	<0.6
B55	24-30	<0.6
B55	30-36	<0.6
B55	36-42	<0.6
B55	42-48	<0.6
B56	0-6	<0.6
B56	6-12	<0.6
B56	12-18	<0.6
B56	18-24	<0.6
B56	24-30	<0.6
B56	30-36	<0.6
B56	36-42	<0.6
B56	42-48	<0.6
B57	0-6	1.8
B57	6-12	17.0
B58	0-6	<0.7
B58	6-12	<0.6
B59	0-6	<0.8
B59	6-12	<0.7
B60	0-6	<0.9
B60	6-12	<0.7
B61	0-6	0.8
B61	6-12	0.7
B61	12-18	0.7
B61	18-24	0.7
B61	24-30	0.6
B61	30-36	0.6
B61	36-42	0.8
B61	42-48	0.6
B62	0-6	0.7
B62	6-12	0.6
B62	12-18	0.6
B62	18-24	0.8
B62	24-30	0.6
B62	30-36	0.6
B62	36-42	0.6
B62	42-48	0.6
B63	0-6	<0.7
B63	6-12	<0.6
B63	12-18	<0.6
B63	18-24	<0.6
B63	24-30	<0.6
B63	30-36	<0.6
B63	36-42	<0.6
B63	42-48	<0.6
B64	0-6	<0.7
B64	6-12	<0.6
B65	0-6	<0.6
B65	6-12	<0.6
B65	12-18	<0.6
B65	18-24	<0.5
B65	24-30	<0.6
B65	30-36	<0.6
B65	36-42	<0.6
B65	42-48	<0.6
B65	48-54	<0.6
B65	54-60	<0.6
B65	60-66	<0.7
B65	66-72	<0.7
B66	0-6	<0.6
B66	6-12	<0.6
B66	12-18	<0.6
B66	18-24	<0.6
B66	24-30	<0.6
B66	30-36	<0.6
B66	36-42	<0.6
B66	42-48	<0.6
B66	48-54	<0.6
B66	54-60	<0.6
B66	60-66	<0.6
B66	66-72	<0.6
B66	72-78	1.3
B66	78-84	<0.6
B66	84-90	1.2
B66	90-96	1.1
B66	96-102	<0.6
B66	102-108	<0.6
B66	108-114	1.0
B66	114-120	0.8
B66	120-126	<0.6
B66	126-132	8.1
B66	132-138	2.2
B66	138-144	<0.6
B67	0-6	<0.6
B67	6-12	<0.6
B67	12-18	<0.6
B67	18-24	<0.6
B67	24-30	<0.6
B67	30-36	<0.6
B67	36-42	<0.6
B67	42-48	<0.6
B67	48-54	<0.6
B67	54-60	<0.6
B67	60-66	<0.6
B67	66-72	4.0
B67	72-78	<0.6
B67	78-84	17.0
B67	84-90	5.0
B67	90-96	1.5
B67	96-102	<0.6
B67	102-108	<0.6
B67	108-114	<0.6
B67	114-120	<0.7
B68	0-6	<0.6
B68	6-12	<0.6
B68	12-18	<0.6
B68	18-24	<0.6
B68	24-30	<0.6
B68	30-36	<0.6
B68	36-42	<0.6
B68	42-48	<0.6
B68	48-54	<0.6
B68	54-60	<0.6
B68	60-66	<0.6
B68	66-72	<0.7

Sample	DEPTH(in)	PCBs(ppm)
SS-01	0.0-6	<0.26
SS-02	0.0-6	<0.25
SS-03	0.0-6	<0.2
SS-04	6-10	<0.19 [<0.18]
SS-05	0.0-6	<0.2
SS-07	0.0-6	<0.22 [<0.2]
SS-08	0.0-6	<0.2
SS-09	0.0-6	<0.25
SS-10	6-10	<0.23
SS-11	0.0-6	<0.2
SS-12	6-10	<0.2
SS-13	0.0-6	<0.21
SS-14	0.0-6	<0.21
SS-15	0.0-6	<0.2
SS-16	0.0-6	<0.28
SS-17	0.0-6	0.31
SS-18	0.0-6	<0.27
SS-19	0.0-6	<0.28
SS-20	0.0-6	<0.31
SS-21	0.0-6	<0.2
SS-22	0.0-6	2.1
SS-24	0.0-6	0.69
SS-25	0.0-6	0.38
SS-26	0.0-6	<0.23
SD-01	0.0-6	<0.24 [0.24]
SD-02	0.0-6	[illegible]
SD-03	0.0-6	1.8

L:ON=*, OFF=REF
P: STD-PCP/D2BL
6/1/98 SYR-54-RLP PGL YCC LBR
10184400\10184S11.DWG

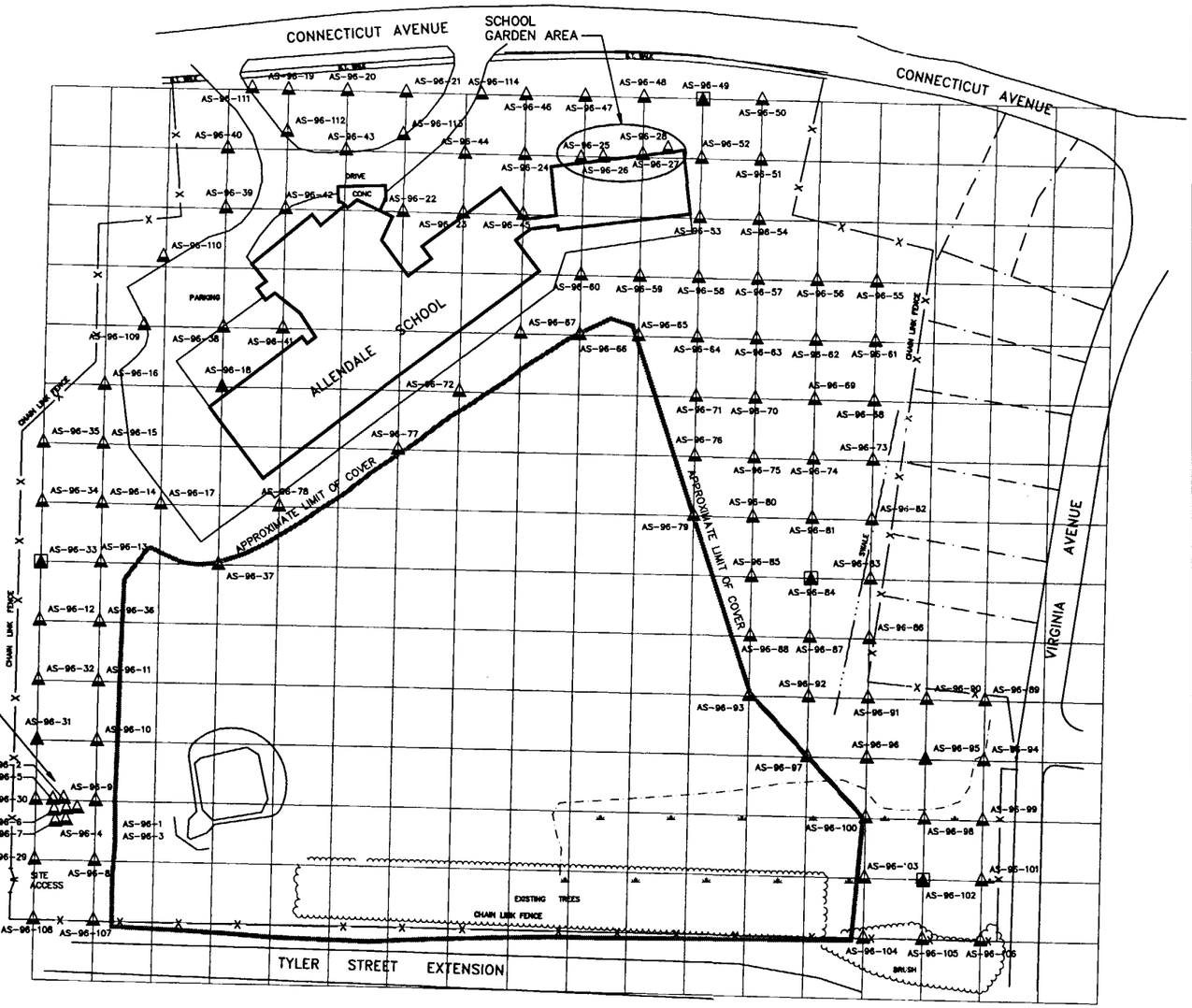
GENERAL ELECTRIC COMPANY, PITTSFIELD MASSACHUSSETTS

ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

EXISTING PCB SOIL ANALYTICAL DATA THROUGH SEPTEMBER 1996

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

FIGURE 2



SAMPLE IDENTIFICATION	PCBs(ppm) 0–6"	PCBs(ppm) 6"–12"
AS–96–1	0.056	0.14
AS–96–2	0.077	ND(0.039)
AS–96–3	0.093	0.088
AS–96–4	0.053	0.097
AS–96–5	0.052	ND(0.039)
AS–96–6	0.067	ND(0.039)
AS–96–7	0.069	ND(0.040)
AS–96–8	0.06	0.065
AS–96–9	0.06	0.22
AS–96–10	0.17	0.056
AS–96–11	0.052	ND(0.041)
AS–96–12	ND(0.039)	ND(0.038)
AS–96–13	0.08	ND(0.041)
AS–96–14	0.27	0.13
AS–96–15	0.094	0.073
AS–96–16	0.071	0.075
AS–96–17	0.33	0.1
AS–96–18	0.18	0.073
AS–96–19	0.088	0.075
AS–96–20	0.044	ND(0.037)
AS–96–21	0.058	ND(0.037)
AS–96–22	0.071	ND(0.036)
AS–96–23	0.07	ND(0.036)
AS–96–24	0.051	ND(0.036)
AS–96–25	0.11	ND(0.035)
AS–96–26	0.11	0.051
AS–96–27	0.13	ND(0.036)
AS–96–28	0.072	ND(0.036)
AS–96–29	0.11	0.045
AS–96–30	0.06	ND(0.039)
AS–96–31	ND(0.036)	ND(0.040)
AS–96–32	0.049	ND(0.038)
AS–96–33	0.057	ND(0.033)
AS–96–34	0.096	0.17
AS–96–35	0.066	ND(0.038)
AS–96–36	0.1	ND(0.043)
AS–96–37	0.075	0.069
AS–96–38	0.19	0.065
AS–96–39	0.063	ND(0.038)
AS–96–40	0.054	ND(0.039)
AS–96–41	0.13	0.12
AS–96–42	0.057	0.071
AS–96–43	0.08	0.061
AS–96–44	0.046	ND(0.036)
AS–96–45	0.16	0.083
AS–96–46	0.084	0.063
AS–96–47	0.084	0.055
AS–96–48	0.07	ND(0.039)
AS–96–49	0.085	0.046
AS–96–50	0.13	0.091
AS–96–51	0.12	0.089
AS–96–52	0.051	ND(0.036)
AS–96–53	0.1	0.042
AS–96–54	0.074	0.056
AS–96–55	0.05	0.051
AS–96–56	0.066	0.071
AS–96–57	0.092	0.065

SAMPLE IDENTIFICATION	PCBs(ppm) 0–6"	PCBs(ppm) 6"–12"
AS–96–58	0.11	0.044
AS–96–59	0.094	0.11
AS–96–60	0.086	0.11
AS–96–61	0.059	0.046
AS–96–62	0.14	0.066
AS–96–63	0.41	0.62
AS–96–64	0.23	0.89
AS–96–65	ND(0.039)	0.1
AS–96–66	ND(0.039)	ND(0.039)
AS–96–67	0.1	0.059
AS–96–68	ND(0.040)	ND(0.038)
AS–96–69	0.14	0.052
AS–96–70	0.46	0.52
AS–96–71	ND(0.034)	ND(0.035)
AS–96–72	0.18	0.14
AS–96–73	0.077	ND(0.041)
AS–96–74	0.51	0.41
AS–96–75	1.0	1.5
AS–96–76	2.6	2.7
AS–96–77	0.11	0.06
AS–96–78	0.085	0.04
AS–96–79	ND(0.038)	ND(0.038)
AS–96–80	3.6	16
AS–96–81	1.7	0.88
AS–96–82	0.067	0.11
AS–96–83	0.094	0.043
AS–96–84	0.2	0.21
AS–96–85	0.13	0.64
AS–96–86	0.18	0.12
AS–96–87	0.4	0.047
AS–96–88	0.22	0.93
AS–96–89	0.41	0.29
AS–96–90	0.25	0.27
AS–96–91	0.22	0.16
AS–96–92	0.34	0.47
AS–96–93	ND(0.041)	ND(0.039)
AS–96–94	0.37	0.13
AS–96–95	0.23	0.12
AS–96–96	0.27	0.61
AS–96–97	ND(0.040)	ND(0.039)
AS–96–98	0.72	0.22
AS–96–99	0.13	0.053
AS–96–100	0.22	0.61
AS–96–101	0.18	0.14
AS–96–102	0.48	0.54
AS–96–103	ND(0.042)	0.13
AS–96–104	0.12	0.96
AS–96–105	0.23	0.45
AS–96–106	ND(0.041)	ND(0.041)
AS–96–107	0.061	ND(0.040)
AS–96–108	0.37	0.074
AS–96–109	0.14	0.092
AS–96–110	0.98	0.24
AS–96–111	0.098	ND(0.036)
AS–96–112	0.096	0.068
AS–96–113	0.085	0.058
AS–96–114	ND(0.037)	0.12

LEGEND:

- AS–96–101 ▲ SOIL SAMPLES COLLECTED FROM (0–6") AND (6"–12")
- AS–96–95 ▲ SOIL SAMPLE COLLECTED FOR PCB AND VOC ANALYSES
- AS–96–84 ◭ SOIL SAMPLE COLLECTED FOR TOC AND PCB ANALYSES
- EXISTING CHAIN LINK FENCE
- APPROXIMATE LOWLAND BOUNDARY
- EXISTING DRAINAGE SWALE
- EXISTING TREES AND BRUSH
- AS–96–76 | 2.6 | 2.7 SAMPLE CONCENTRATION GREATER THAN 2 ppm PCB

0 60' 120'
APPROXIMATE SCALE

NOTE:

1. ALL ROADS, BUILDINGS, AND SAMPLE LOCATIONS ARE APPROXIMATE. SAMPLE LOCATIONS WERE SURVEYED IN OCTOBER 1996 BY BLASLAND, BOUCK & LEE, INC.

GENERAL ELECTRIC COMPANY, PITTSFIELD MASSACHUSETTS

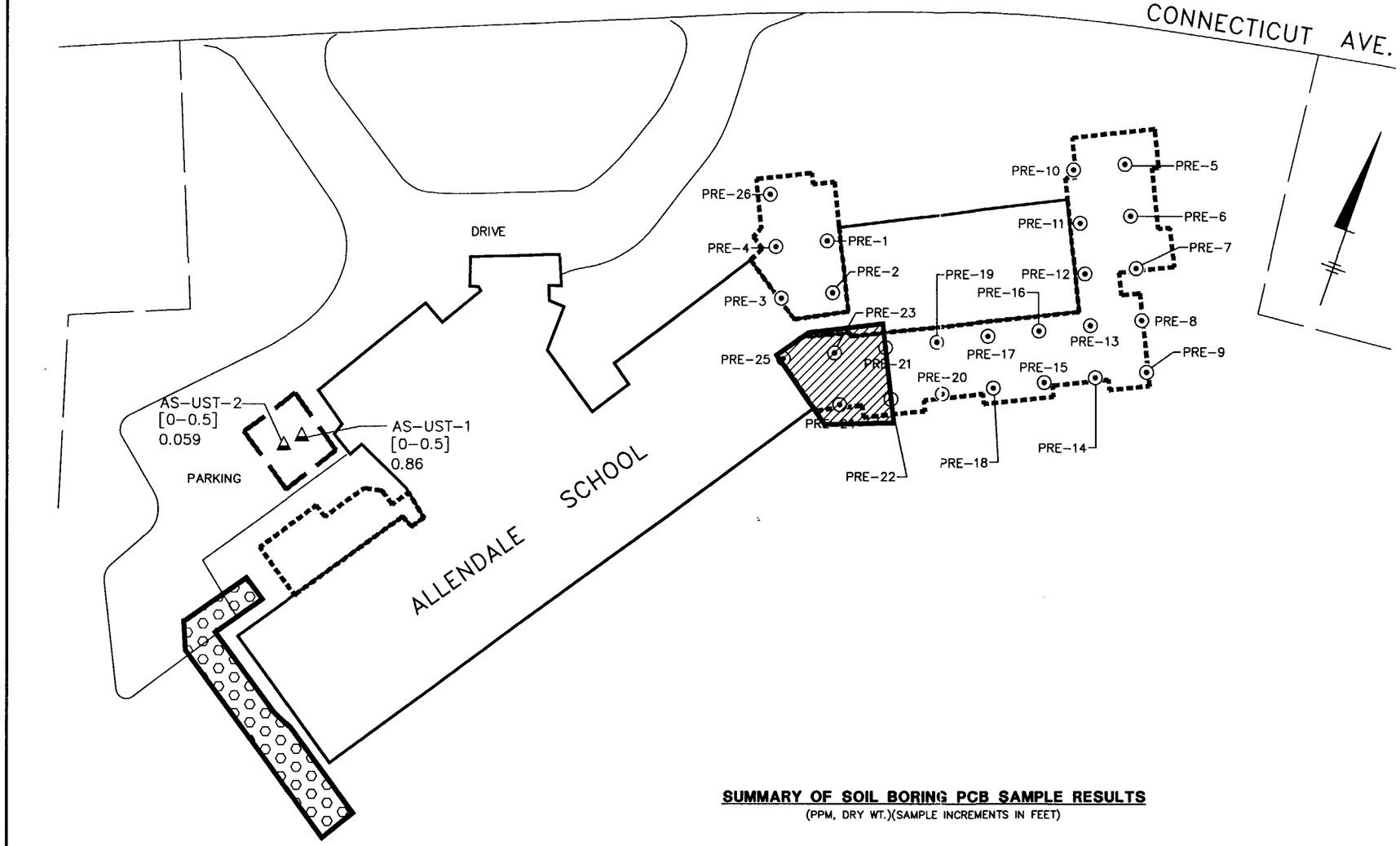
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

PCB SOIL ANALYTICAL DATA OCTOBER 1996

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

FIGURE 3

L:ON=*, OFF=REF
P: STD-PCP/DL
6/2/98 SYR-54-RLP PGL YCC LBR
10184400\10184SM2.DWG



LEGEND:

- APPROXIMATE LIMITS OF PROPOSED BUILDING EXPANSION (GIFFORD ENGINEERING, 8/28/96)
- PRE-EXCAVATION – SAMPLING LOCATIONS (APRIL 21-22, 1997)
- SAMPLE CONCENTRATION GREATER THAN 2 ppm PCB
- APPROXIMATE TANK REMOVAL AREA
- APPROXIMATE LIMITS OF PCB CONTAINING SOIL EXCAVATION AND REMOVAL PRIOR TO BUILDING EXPANSION
- APPROXIMATE LIMITS OF SOIL EXCAVATION AND REMOVAL PRIOR TO GREASE TRAP AND SANITARY PIPING INSTALLATION
- ▲ SOIL SAMPLE FROM UNDERNEATH REMOVED TANKS
- [0-0.5] SOIL SAMPLE DEPTH IN FEET
- 0.86 PCB CONCENTRATION IN ppm

NOTES:

1. PRE-EXCAVATION SAMPLING LOCATIONS ADVANCED BASED ON A 25-FOOT BY 25-FOOT GRID, WHICH IS GENERALLY CONSISTENT WITH GE's PROTOCOLS FOR THE MANAGEMENT OF EXCAVATION ACTIVITIES (UPDATED NOV. 1996). THE SAMPLING AT THESE LOCATIONS INCLUDED 2-FOOT INTERVAL SAMPLING FOR PCBs TO DEPTHS AT LEAST 2-FEET BEYOND THE EXTENT OF FILL AS DETERMINED BASED ON HISTORICAL TOPOGRAPHIC MAPPING PREDATING THE CONSTRUCTION OF THE SCHOOL. THESE LOCATIONS WERE SURVEYED BY BLASLAND, BOUCK & LEE, INC., AT THE TIME OF SAMPLING.
2. SAMPLING LOCATIONS ARE APPROXIMATE.

0 30' 60' 120'
GRAPHIC SCALE

SUMMARY OF SOIL BORING PCB SAMPLE RESULTS

(PPM, DRY WT.)(SAMPLE INCREMENTS IN FEET)

Sample ID	0 - 0.5	0.5 - 1	1 - 1.5	1.5 - 2	2 - 2.5	2.5 - 3	3 - 3.5	3.5 - 4	4 - 4.5	4.5 - 5	5 -5.5	5.5 - 6	6 - 6.5	6.5 - 7	7 - 7.5	7.5 - 8	8 - 8.5	8.5 - 9	9 - 9.5	9.5 - 10
PRE-1	0-2ft: ND (0.037)[0.075]				2-4ft: 0.072				--	--	--	--	--	--	--	--	--	--	--	--
PRE-2	0-2ft: 0.093				2-4ft: 0.11				--	--	--	--	--	--	--	--	--	--	--	--
PRE-3	0-2ft: 0.049				2-4ft: 0.041				--	--	--	--	--	--	--	--	--	--	--	--
PRE-4	0-2ft: ND(0.037)				2-4ft: ND (0.038)				--	--	--	--	--	--	--	--	--	--	--	--
PRE-5	0-2ft: ND(0.038)				2-4ft: ND (0.038)				4-6ft: ND (0.038)				--	--	--	--	--	--	--	--
PRE-6	0-2ft: ND(0.039)				2-4ft: ND (0.038)				--	--	--	--	--	--	--	--	--	--	--	--
PRE-7	0-2ft: ND(0.039)				2-4ft: ND (0.038)				--	--	--	--	--	--	--	--	--	--	--	--
PRE-8	0-2ft: ND(0.037)				2-4ft: ND (0.04)				4-6ft: ND (0.039)(ND (0.039)]				6-8ft: ND (0.038)				--	--	--	--
PRE-9	0-2ft: ND(0.044)				2-4ft: ND (0.04)				4-6ft: ND (0.04)				--	--	--	--	--	--	--	--
PRE-10	0-2ft: 0.047				2-4ft: ND (0.037)				4-6ft: ND (0.038)				--	--	--	--	--	--	--	--
PRE-11	0-2ft: ND(0.037)				2-4ft: ND (0.036)				4-6ft: ND (0.038)				--	--	--	--	--	--	--	--
PRE-12	0-2ft: 0.047				2-4ft: ND (0.036)				4-6ft: ND (0.039)				6-8ft: ND (0.038)				--	--	--	--
PRE-13	0-2ft: ND(0.036)				2-4ft: ND (0.036)				4-6ft: ND (0.038)				6-8ft: ND (0.038)(ND (0.038)]				8-10ft: ND (0.039)			
PRE-14	0-2ft: 0.042				2-4ft: ND (0.038)				4-6ft: ND (0.039)				--	--	--	--	--	--	--	--
PRE-15	0-2ft: 0.038				2-4ft: ND (0.037)				4-6ft: ND (0.039)				--	--	--	--	--	--	--	--
PRE-16	0-2ft: ND(0.035)				2-4ft: ND (0.036)				4-6ft: ND (0.037)				6-8ft: ND (0.04)				8-10ft: ND (0.039)			
PRE-17	0-2ft: ND(0.036)				2-4ft: ND (0.036)				4-6ft: ND (0.038)				6-8ft: ND (0.043)				8-10ft: ND (0.039)(ND (0.04)]			
PRE-18	0-2ft: 0.047				2-4ft: ND (0.037)				4-6ft: 0.09				6-8ft: ND (0.037)				--	--	--	--
PRE-19	0-2ft: ND(0.035)				2-4ft: ND (0.036)				4-6ft: 0.052				6-8ft: ND (0.043)				8-10ft: ND (0.044)			
PRE-20	0-2ft: ND(0.079)				2-4ft: ND (0.037)				4-6ft: ND (0.044)				6-8ft: ND (0.042)				--	--	--	--
PRE-21	0-2ft: 0.19				2-4ft: ND (0.035)				4-6ft: 0.28				6-8ft: ND (0.04)				8-10ft: ND (0.039)			
PRE-22	0-2ft: 0.143				2-4ft: ND (0.037)				4-6ft: 1.0				6-8ft: ND (0.041)				--	--	--	--
PRE-23	0-2ft: 0.13				2-4ft: ND (0.035)				4-6ft: 0.2				6-8ft: ND (0.043)				8-10ft: ND (0.042)			
PRE-24	0-2ft: 0.086				2-4ft: 0.76								6-8ft: ND (0.044)(ND (0.041)]				--	--	--	--
PRE-25	0-2ft: 0.067				2-4ft: 0.18				4-6ft: 0.54				6-8ft: 0.45				8-10ft: 0.065			
PRE-26	0-2ft: 0.13				2-4ft: 0.05				--	--	--	--	--	--	--	--	--	--	--	--

Notes:
1. -- = No sample collected.
2. ND (0.25) = Not detected; detection limit shown in parentheses.
3. [0.471] = Duplicate analysis result shown in brackets.

GENERAL ELECTRIC COMPANY, PITTSFIELD MASSACHUSSETTS

ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

PCB SOIL ANALYTICAL DATA
APRIL 1997

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

FIGURE 4

L:ON=*, OFF=042197S8,042197SS,GRID,REF,SH-255SYMOFF,SYM-8*
P: STD-PCP/DL
6/1/98 SYR-54-RLP, DMW, RCB LBR
10184400\10184402.DWG

AS-97-115	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	ND(0.040)
0.5 – 1.5	ND(0.039)
1.5 – 2	ND(0.038)

AS-97-116	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	ND(0.041)
0.5 – 1.5	ND(0.038)
1.5 – 2	ND(0.040)

AS-97-117	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.072
0.5 – 1.5	ND(0.038)
1.5 – 2	ND(0.037)

AS-97-118	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.11
0.5 – 1.5	ND(0.039)
1.5 – 2	ND(0.039)

AS-97-119	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.096
0.5 – 1.5	ND(0.040)
1.5 – 2	ND(0.038)

AS-97-120	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	1.9
0.5 – 1	12

AS-97-121	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	ND(0.043)
0.5 –1	ND(0.040)

AS-97-122	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	1.4
0.5 –1	4.2

AS-97-123	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.084
0.5 –1	0.053

AS-97-124	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	1.2
0.5 –1	11

AS-97-125	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.65
0.5 –1	8

AS-97-126	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	1.1
0.5 –1	5.6

AS-97-127	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	ND(0.043)
0.5 – 1.5	0.1
1.5 – 2	0.7

ASB-1	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	ND(0.042)
0.5 – 1	ND(0.039)
1 – 3	ND(0.037) [ND(0.037)]
3 – 5	ND(0.039)
5 – 7	ND(0.041)
7 – 9	ND(0.039)
9 – 11	ND(0.040)

ASB-2	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.059
0.5 – 1	ND(0.041)
1 – 3	ND(0.036)
3 – 5	ND(0.038)
5 – 7	ND(0.037)
7 – 9	ND(0.038)
9 – 11	ND(0.036)

ASB-3	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.064
0.5 – 1	ND(0.036)
1 – 3	0.46
3 – 5	23
5 – 7	ND(0.039)

ASB-4	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.95
0.5 – 1	0.84
1 – 3	5.3
3 – 5	0.19
5 – 7	ND(0.040) [ND(0.041)]

ASB-5	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	ND(0.042)
0.5 – 1	0.054
1 – 3	ND(0.038)
3 – 5	ND(0.038)

ASB-6	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	ND(0.035)
0.5 – 1	ND(0.035)
1 – 3	ND(0.036)
3 – 5	0.02
5 – 7	ND(0.035) [ND(0.035)]
7 – 9	ND(0.038)
9 – 11	ND(0.038)

ASB-7	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.041
0.5 – 1	ND(0.035)
1 – 3	ND(0.035)
3 – 5	0.13
5 – 7	0.45

ASB-8	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	ND(0.036)
0.5 – 1	ND(0.035)
1 – 3	ND(0.037)
3 – 5	0.084
5 – 7	0.91

ASB-9	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.106
0.5 – 1	ND(0.037)
1 – 3	ND(0.037)
3 – 5	ND(0.035)
5 – 7	3 ND(0.036)

ASB-10	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.087
0.5 – 1	0.050
1 – 3	0.064
3 – 5	1.4
5 – 7	1.1

ASB-11	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	4.2
0.5 – 1	0.65
1 – 3	1.81
3 – 5	0.72
5 – 7	ND(0.041) [ND(0.040)]

ASB-12	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.21
0.5 – 1	0.044
1 – 3	ND(0.036)
3 – 5	93 [160]

ASB-13	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	ND(0.041)
0.5 – 2	ND(0.039)
2 – 4	7.7
4 – 6	0.18

ASB-14	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.061
0.5 – 2	ND(0.035)
2 – 4	ND(0.036)
4 – 6	0.4
6 – 8	ND(0.035)
8 – 10	ND(0.038)
10 – 12	ND(0.038)

ASB-15	
DEPTH (feet)	PCBs (ppm)
0 – 2	0.161
2 – 4	ND(0.040)
4 – 6	ND(0.039)

ASB-16	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	ND(0.042)
0.5 – 2	ND(0.038)
2 – 4	49
4 – 6	0.46

ASB-17	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.057
0.5 – 2	ND(0.038)
2 – 4	8.8 [10]
4 – 6	29

ASB-18	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.058
0.5 – 2	ND(0.039)
2 – 4	9.6
4 – 6	210

ASB-19	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.24
0.5 – 2	0.29
2 – 4	460
4 – 6	810 [800]

ASB-20	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.064
0.5 – 1	4.2
1 – 3	42
3 – 5	0.39
5 – 7	3.5
7 – 9	0.88

ASB-21	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	5.3
0.5 – 1	7.6
1 – 3	2.2
3 – 5	0.99
5 – 7	0.14
7 – 9	0.079

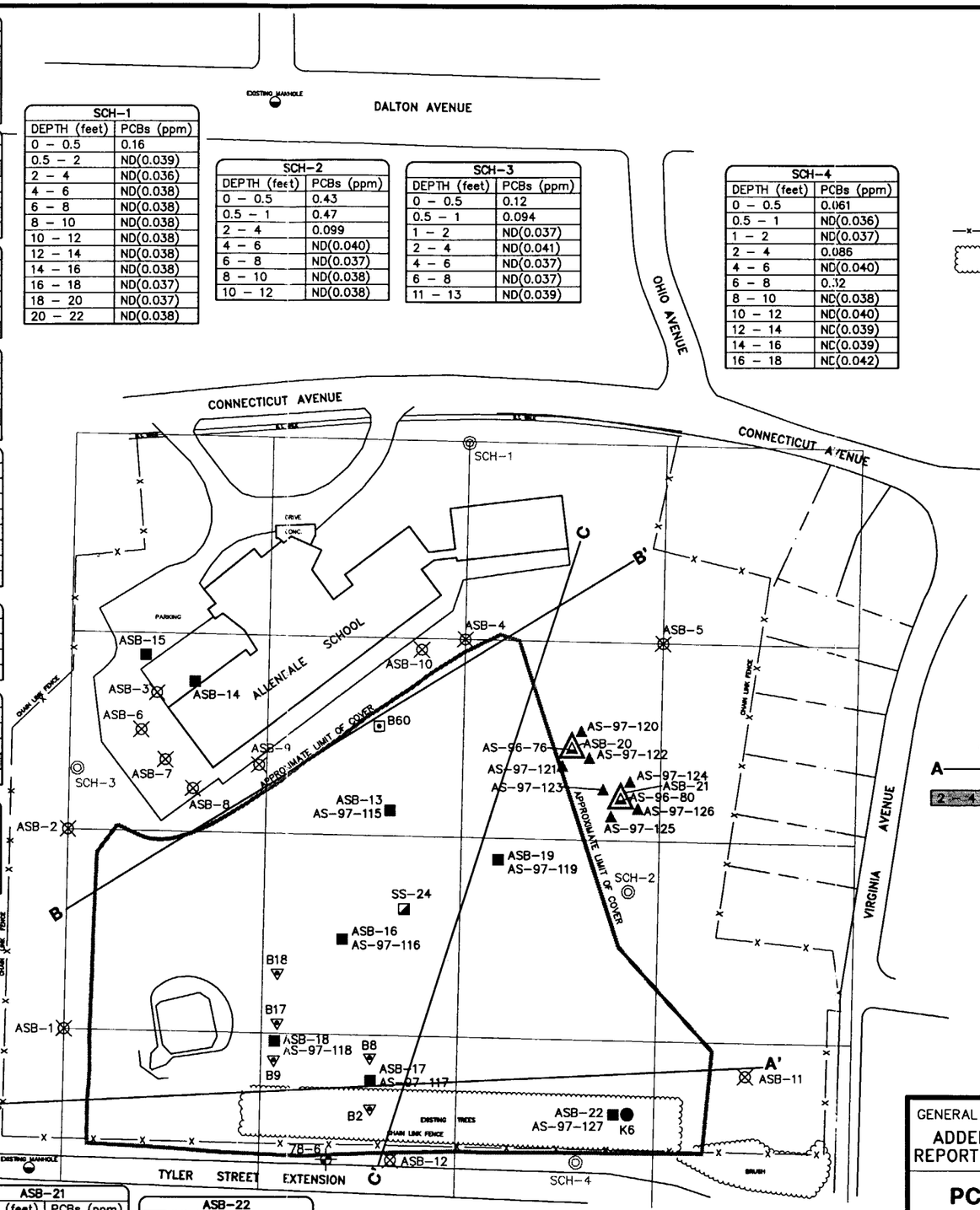
ASB-22	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	ND(0.041)
0.5 – 2	0.053
2 – 4	22
4 – 6	1.4

SCH-1	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.16
0.5 – 2	ND(0.039)
2 – 4	ND(0.036)
4 – 6	ND(0.038)
6 – 8	ND(0.038)
8 – 10	ND(0.038)
10 – 12	ND(0.038)
12 – 14	ND(0.038)
14 – 16	ND(0.038)
16 – 18	ND(0.037)
18 – 20	ND(0.037)
20 – 22	ND(0.038)

SCH-2	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.43
0.5 – 1	0.47
2 – 4	0.099
4 – 6	ND(0.040)
6 – 8	ND(0.037)
8 – 10	ND(0.038)
10 – 12	ND(0.038)

SCH-3	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.12
0.5 – 1	0.094
1 – 2	ND(0.037)
2 – 4	ND(0.041)
4 – 6	ND(0.037)
6 – 8	ND(0.037)
11 – 13	ND(0.039)

SCH-4	
DEPTH (feet)	PCBs (ppm)
0 – 0.5	0.061
0.5 – 1	ND(0.036)
1 – 2	ND(0.037)
2 – 4	0.086
4 – 6	ND(0.040)
6 – 8	0.12
8 – 10	ND(0.038)
10 – 12	ND(0.040)
12 – 14	NC(0.039)
14 – 16	NC(0.039)
16 – 18	NC(0.042)



LEGEND:

- EXISTING CHAIN LINK FENCE
- EXISTING TREES AND BRUSH
- EXISTING MONITORING WELL LOCATION
- EXISTING MANHOLE – PROPOSED SURFACE WATER AND SEDIMENT SAMPLING LOCATION
- SOIL SAMPLES COLLECTED FROM (0–6") AND (6"–12")
- JANUARY 1990 – SAMPLING LOCATIONS
- JULY 1990 – SAMPLING LOCATIONS
- AUGUST 17, 1990 – SAMPLING LOCATIONS
- AUGUST 24, 1990 – SAMPLING LOCATIONS
- GE PROPOSED SUBSURFACE SOIL SAMPLE LOCATION
- GE PROPOSED SUBSURFACE SOIL SAMPLE LOCATION AND MONITORING WELL LOCATION (MOVED FROM ORIGINALLY PROPOSED LOCATIONS PER MDEP DETERMINATIONS)
- MDEP REQUIRED SUBSURFACE SOIL SAMPLING LOCATIONS AND SURFACE SOIL SAMPLING LOCATION AFTER INSTALLATION OF SOIL BORING AND SITE RESTORATION
- MDEP REQUIRED SURFACE SOIL SAMPLING LOCATIONS
- MDEP REQUIRED SUBSURFACE SOIL SAMPLING LOCATIONS
- A——A' TRANSECT
- 2 – 4 | 22 SAMPLE CONCENTRATION GREATER THAN 2 ppm PCB

NOTE:

EXISTING MONITORING WELL NY-3 IS LOCATED WEST OF NY-4 ADJACENT TO TYLER STREET EXTENSION.

130' 0 130'

APPROXIMATE SCALE

GENERAL ELECTRIC COMPANY, PITTSFIELD, MASSACHUSETTS

ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

PCB SOIL ANALYTICAL DATA APRIL - JUNE 1997

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

FIGURE 5

P: STD-PCP/D28L
6/1/98 SYR-54-RLP DMW PGL RCB LBR
10184400/10184SMB.DWG

SUMMARY OF SOIL DATA – TOTAL PCBs

(Results are presented in dry-weight parts per million, ppm)

Sample ID	Depth(ft)	Date	Total PCBs
K11-7-28-SS-1	0-0.5	23-Feb-98	0.15
	0.5-1	23-Feb-98	0.13
K11-7-28-SS-2	0-0.5	23-Feb-98	0.41
	0.5-1	23-Feb-98	0.29
AS-96-80	0-0.5	17-Feb-98	0.13
AS-98-128	0-0.5	17-Feb-98	0.090
AS-98-129	0-0.5	17-Feb-98	0.24
AS-98-130	0-0.5	17-Feb-98	0.078
AS-98-131	0-0.5	17-Feb-98	0.26 [0.23]
AS-98-132	0-0.5	17-Feb-98	0.090
AS-98-133	0-0.5	17-Feb-98	0.086
AS-98-134	0-0.5	16-Mar-98	ND(0.046)
	0.5-1	16-Mar-98	2.8
	1-3	16-Mar-98	0.13
ASB-23	1-3	19-Feb-98	0.32
	3-5	19-Feb-98	0.043
	5-7	19-Feb-98	ND(0.037)
ASB-24	0-0.5	19-Feb-98	ND(0.036)
	0.5-1	19-Feb-98	ND(0.035)
	1-3	19-Feb-98	ND(0.035)
	3-5	19-Feb-98	ND(0.037)
	5-7	19-Feb-98	ND(0.036)
ASB-25	0-0.5	19-Feb-98	0.11
	0.5-1	19-Feb-98	ND(0.035)
	1-3	19-Feb-98	ND(0.038)
	3-5	19-Feb-98	0.096 [0.15]
	5-7	19-Feb-98	0.045 [0.088]
ASB-26	2-4	17-Feb-98	5.6
	4-6	17-Feb-98	1.8
	6-8	17-Feb-98	6.7
	8-10	17-Feb-98	0.22
ASB-27	2-4	17-Feb-98	25
	4-6	17-Feb-98	2.6
	6-8	17-Feb-98	0.12
	8-10	17-Feb-98	7.0J~[0.21J~]
ASB-28	2-4	17-Feb-98	87
	4-6	17-Feb-98	440
	6-8	17-Feb-98	0.64
	8-10	17-Feb-98	0.27
ASB-29	2-4	18-Feb-98	2.5
	4-6	18-Feb-98	1.4
	6-8	18-Feb-98	1.6
	8-10	18-Feb-98	0.058
	10-12	18-Feb-98	7.1
ASB-30	2-4	18-Feb-98	12
	4-6	18-Feb-98	27
	6-8	18-Feb-98	20
	8-10	18-Feb-98	0.11
	10-12	18-Feb-98	0.066J~[0.34J~]
ASB-31	2-4	18-Feb-98	1.0
	4-6	18-Feb-98	67
	6-8	18-Feb-98	23
	8-10	18-Feb-98	0.59
	10-12	18-Feb-98	ND(0.041)
ASB-32	2-4	18-Feb-98	12
	4-6	18-Feb-98	33
	6-8	18-Feb-98	4.4
	8-10	18-Feb-98	0.15
ASB-33	2-4	18-Feb-98	2.5
	4-6	18-Feb-98	43
	6-8	18-Feb-98	18
	8-10	18-Feb-98	ND(0.040)
ASB-34	2-4	18-Feb-98	95
	4-6	18-Feb-98	109
	6-8	18-Feb-98	2.0
	8-10	18-Feb-98	0.13
	10-12	18-Feb-98	2.6

Sample ID	Depth(ft)	Date	Total PCBs
ASB-35	0-0.5	25-Feb-98	0.068
	0.5-1	25-Feb-98	0.048J~[2.8J~]
	1-3	25-Feb-98	ND(0.036)
ASB-36	0-0.5	25-Feb-98	0.040
	0.5-1	25-Feb-98	0.19
	1-3	25-Feb-98	0.058
ASB-37	0-0.5	25-Feb-98	1.8
	0.5-1	25-Feb-98	4.1J~[0.059J~]
	1-3	25-Feb-98	19
ASB-38	0-0.5	25-Feb-98	ND(0.056)
	0.5-1	25-Feb-98	6.4 [4.5]
	1-3	25-Feb-98	17
ASB-39	0-0.5	25-Feb-98	23
	0.5-1	25-Feb-98	18
	1-3	25-Feb-98	0.15
ASB-40	0-0.5	25-Feb-98	1.2
	0.5-1	25-Feb-98	11
	1-3	25-Feb-98	16
ASB-41	0-0.5	25-Feb-98	5.7
	0.5-1	25-Feb-98	1.4
	1-3	25-Feb-98	0.54
ASB-42	0-0.5	25-Feb-98	ND(0.050)
	0.5-1	25-Feb-98	3.4
	1-3	25-Feb-98	4.8
ASB-43	0-0.5	25-Feb-98	11
	0.5-1	25-Feb-98	2.8
	1-3	25-Feb-98	ND(0.041)
ASB-44	0-0.5	25-Feb-98	0.44
	0.5-1	25-Feb-98	0.58
	1-3	25-Feb-98	0.80
ASB-45	0-0.5	25-Feb-98	4.9
	0.5-1	25-Feb-98	49
	1-3	25-Feb-98	1.3
ASB-46/ ASB-55	0-0.5	25-Feb-98	7.0
	0.5-1	25-Feb-98	19
	1-3	25-Feb-98	94
	3-5	16-Mar-98	8.4
	5-7	16-Mar-98	ND(0.037)
	7-9	16-Mar-98	0.93
ASB-47	0-0.5	25-Feb-98	0.59
	0.5-1	25-Feb-98	0.55
	1-3	25-Feb-98	1.8
ASB-48	0-0.5	25-Feb-98	0.080
	0.5-1	25-Feb-98	2.9
	1-3	25-Feb-98	1.1
ASB-49	0-0.5	25-Feb-98	0.061
	0.5-1	25-Feb-98	0.45
	1-3	25-Feb-98	1.4
ASB-50	0-0.5	25-Feb-98	0.49
	0.5-1	25-Feb-98	0.21
	1-3	25-Feb-98	ND(0.051)
ASB-51	0-0.5	16-Mar-98	1.0
	0.5-1	16-Mar-98	2.0
	1-3	16-Mar-98	20 J~ [40J~]
ASB-52	1-3	16-Mar-98	1.8
	3-5	16-Mar-98	0.044
	5-7	16-Mar-98	ND(0.041)
	7-9	16-Mar-98	ND(0.039)
	9-11	16-Mar-98	ND(0.037)
ASB-53	1-3	16-Mar-98	0.27
ASB-54	1-3	16-Mar-98	0.92
ASB-56	1-3	16-Mar-98	0.12
ASB-57	1-3	16-Mar-98	0.32 J~ [.37J~]
ASB-58	1-3	16-Mar-98	ND(0.041)
ASB-59	1-3	16-Mar-98	0.25
ASB-60	1-3	16-Mar-98	ND(0.040)
ASB-61	1-3	16-Mar-98	0.43

NOTES:

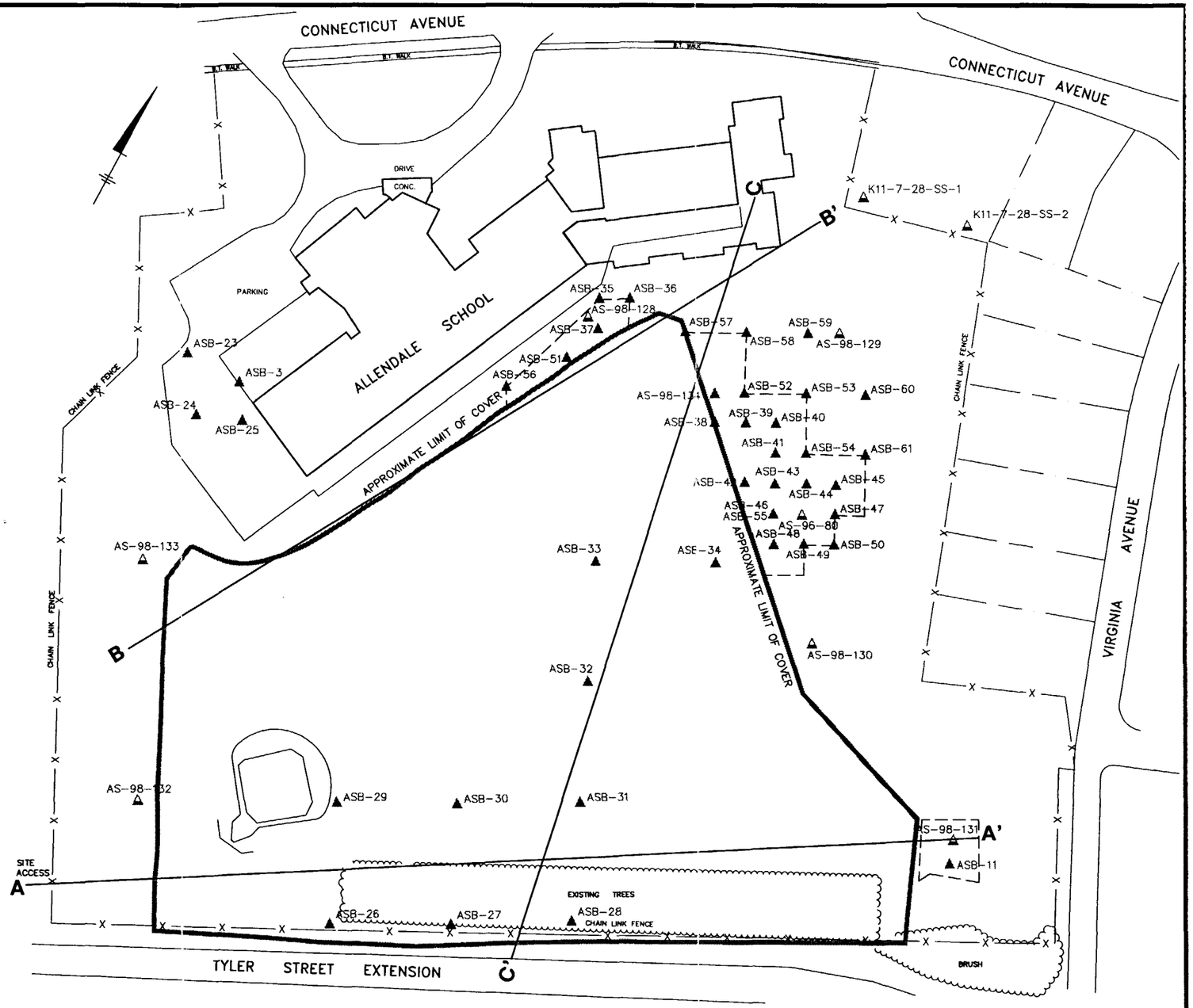
ND – NOT DETECTED. ASSOCIATED QUANTITATION LIMIT SHOWN IN PARENTHESES.

DUPLICATE ANALYZES SHOWN IN BRACKETS.

J~ – ESTIMATED VALUE DUE TO DATA VALIDATION QUALIFICATION.

100' 0 100'

GRAPHIC SCALE



LEGEND:

—x—x— EXISTING CHAIN LINK FENCE

EXISTING TREES AND BRUSH

— — — — APPROXIMATE LIMITS OF SOIL REMOVAL

A ——— A' TRANSECT

▲ SOIL BORING LOCATION

△ SURFACE SOIL SAMPLE LOCATION

NOTE:

ALL SAMPLE LOCATIONS ARE APPROXIMATE.

GENERAL ELECTRIC COMPANY, PITTSFIELD, MASSACHUSETTS

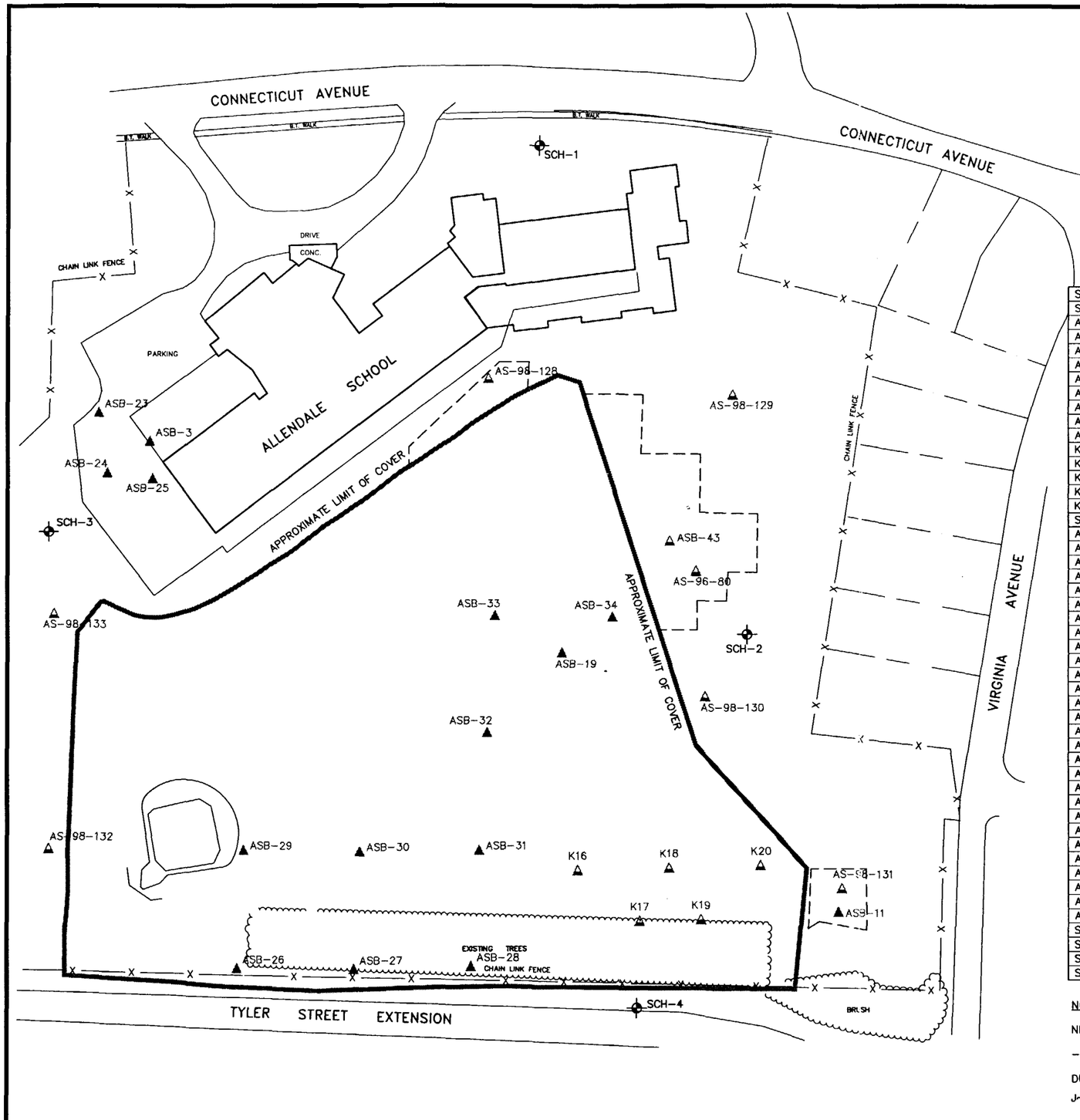
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

1998 PCB SOIL ANALYTICAL DATA

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

FIGURE 6

P: STD-D2BL.PCP
6/4/98 SYR-54-RLP YCC LBR
10184400/10184S18.DWG



LEGEND:

- EXISTING CHAIN LINK FENCE
- EXISTING TREES AND BRUSH
- APPROXIMATE LIMITS OF SOIL REMOVAL
- SOIL BORING LOCATION
- SURFACE SOIL SAMPLE LOCATION
- MONITORING WELL LOCATION

NOTE:
SAMPLE LOCATION ARE APPROXIMATE.

SUMMARY OF SOIL DATA – TOTAL VOCs, SVOCs, PCDDs, PCDFs, and PESTICIDES
(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	Date	Total VOCs	Total SVOCs	Total PCDFs	Total PCDDs	Total Pesticides/Herbicides
Surficial Soil Samples						
AS-96-80 (0 – 0.5)	17-Feb-98	ND	2.5	0.000076	0.00016	ND
AS-98-128 (0 – 0.5)	17-Feb-98	ND	7.1	0.00017	0.00017	ND
AS-98-129 (0 – 0.5)	17-Feb-98	ND	27.1	0.00037	0.00024	ND
AS-98-130 (0 – 0.5)	17-Feb-98	ND	3.5	0.000049	0.000094	0.0045J
AS-98-131 (0 – 0.5)	17-Feb-98	ND [ND]	2.4 [2.6]	0.00029 [0.00022]	0.00021 [0.00014]	0.018 J~[0.0028J~]
AS-98-132 (0 – 0.5)	17-Feb-98	ND	0.99	0.000036	0.00012	ND
AS-98-133 (0 – 0.5)	17-Feb-98	ND	3.3	0.000022	0.000023	ND
ASB-25 (0 – 0.5)	19-Feb-98	ND	0.13	0.0000063	ND	ND
ASB-43 (0 – 0.5)	25-Feb-98	ND	5.8	0.00022	0.00029	ND
K-16 (0-1.5)	23-July-90	0.009	0.62	0.0065	ND	ND
K-17 (0-1.5)	23-July-90	0.009 [0.006]	0.91 [0.40]	0.0122 [0.0127]	ND [ND]	0.05 [0.06]
K-18 (0-1.5)	23-July-90	0.007	1.15	0.0137	ND	0.13
K-19 (0-1.5)	23-July-90	0.018	0.58	0.0444	ND	ND
K-20 (0-1.5)	23-July-90	0.013	0.42	0.00097	ND	ND
Subsurface Soil Samples						
ASB-3 (3 – 5)	04/23/97	ND	14.9	0.0026	0.00021	0.23
ASB-11 (3-5)	06/12/97	ND	--	--	--	--
ASB-19 (2 – 4)	04/22/97	0.009	1.7	0.0076	0.0013	6.4
ASB-23 (5 – 7)	19-Feb-98	ND	ND	ND	ND	ND
ASB-24 (5 – 7)	19-Feb-98	ND	ND	ND	ND	ND
ASB-25 (5 – 7)	19-Feb-98	ND [ND]	ND [0.75]	0.000011 [0.00014]	ND [0.000013]	ND [0.0093J~]
ASB-26 (4 – 6)	17-Feb-98	ND	11.9	0.00026	0.000051	ND
ASB-27 (4 – 6)	17-Feb-98	ND	3.4	0.00014	ND	ND
ASB-28 (8 – 10)	17-Feb-98	ND	ND	0.0000024	ND	ND
ASB-29 (4 – 6)	18-Feb-98	ND	0.046	0.000047	0.0000077	ND
ASB-30 (2 – 4)	18-Feb-98	ND	0.31	0.00034	0.00014	ND
ASB-31 (4 – 6)	18-Feb-98	ND	0.17	0.063	0.0033	ND
ASB-32 (8 – 10)	18-Feb-98	ND	ND	ND	ND	ND
ASB-33 (2 – 4)	18-Feb-98	ND	0.18	0.00000063	0.000019	ND
ASB-34 (6 – 8)	18-Feb-98	ND	0.48	0.00027	0.000016	ND
ASB-26 (2 – 4)	17-Feb-98	ND	--	--	--	--
ASB-26 (6 – 8)	17-Feb-98	ND	--	--	--	--
ASB-26 (8 – 10)	17-Feb-98	ND	--	--	--	--
ASB-27 (2 – 4)	17-Feb-98	ND	--	--	--	--
ASB-27 (6 – 8)	17-Feb-98	0.052	--	--	--	--
ASB-27 (8 – 10)	17-Feb-98	ND	--	--	--	--
ASB-29 (2 – 4)	18-Feb-98	ND	--	--	--	--
ASB-30 (10 – 12)	18-Feb-98	ND	--	--	--	--
ASB-31 (2 – 4)	18-Feb-98	ND	--	--	--	--
ASB-31 (6 – 8)	18-Feb-98	ND	--	--	--	--
ASB-31 (8 – 10)	18-Feb-98	ND	--	--	--	--
ASB-31 (10 – 12)	18-Feb-98	ND	--	--	--	--
ASB-34 (4 – 6)	18-Feb-98	ND	--	--	--	--
SCH-1 (8 – 10)	04/28/97	ND	0.14	0.0000014	ND	ND
SCH-2 (6 – 8)	04/29/97	ND	0.09	ND	ND	ND
SCH-3 (2 – 4)	04/28/97	ND	7.5	0.000018	ND	0.0023
SCH-4 (8 – 10)	04/30/97	ND	0.22	ND	ND	ND

NOTES:

ND NOT DETECTED

-- NOT ANALYZED

DUPLICATE SAMPLES SHOWN IN BRACKETS.

J~ ESTIMATED VALUE DUE TO DATA VALIDATION QUALIFICATION.

GENERAL ELECTRIC COMPANY, PITTSFIELD, MASSACHUSETTS

ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL ANALYTICAL DATA - VOCs, SVOCs, PCDDs, PCDFs & PESTICIDES/HERBICIDES

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

FIGURE 7

P: STD-D2BL.PCP
6/5/98 SYR-54-RLP YCC LBR
10184400/10184S20.DWG

SUMMARY OF SOIL DATA - METALS, SULFIDE, and CYANIDE

(Results are presented in dry-weight parts per million, ppm)

Sample ID.:	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc	Sulfide	Cyanide
Surficial Soil Samples																				
AS-96-80 (0 - 0.5)	17-Feb-98	ND	4.6	33.7 J*	0.31 J*	ND	10.3	8.9	15.0	17.2	0.064 J*	13.5	0.93	ND	ND	2.2 J*	11.7	70.0	ND	ND
AS-98-128 (0 - 0.5)	17-Feb-98	ND	18.1	57.2	0.41 J*	17.0	12.2	11.7	18.9	49.9	0.14 J*	17.1	16.2	3.5	90.1	ND	16.8	92.5	601	4.5
AS-98-129 (0 - 0.5)	17-Feb-98	ND	9.7	59.0	0.46 J*	ND	12.7	12.1	25.1	55.8	0.17 J*	18.5	1.6	ND	ND	ND	18.5	101	373	ND
AS-98-130 (0 - 0.5)	17-Feb-98	ND	5.9	44.6	0.38 J*	ND	11.6	10.6	18.8	16.3	0.056 J*	16.8	0.84	ND	ND	ND	15.4	64.9	ND	ND
AS-98-131 (0 - 0.5)	17-Feb-98	ND	6.8 [6.4]	44.4 [52.9]	0.33 J* [0.34J*]	ND [ND]	9.8 [7.5]	9.8 [9.0]	17.2 [15.4]	38.5 [37.6]	0.095 J* [0.14 J*]	14.6 [12.2]	1.7 [2.2]	ND [ND]	ND [ND]	ND [2.8 J*]	16.8 [13.5]	207 [208]	ND [ND]	ND [ND]
AS-98-132 (0 - 0.5)	17-Feb-98	ND	5.9	39.4	0.34 J*	ND	10.9	10.6	17.9	16.9	0.043 J*	15.4	0.82	ND	ND	ND	13.6	62.6	ND	ND
AS-98-133 (0 - 0.5)	17-Feb-98	ND	5.6	28.9	0.28 J*	ND	7.0	8.5	16.2	14.3	0.022 J*	13.9	ND	ND	ND	ND	11.1	51.7	269	ND
ASB-25 (0 - 0.5)	19-Feb-98	ND	7.0	23.6	0.23 J*	ND	11.1	12.6	21.4	8.9	ND	19.3	0.99	ND	ND	ND	11.7	60.0	ND	ND
ASB-43 (0 - 0.5)	25-Feb-98	ND	6.0	50.7	0.32 J*	ND	11.0	10.1 J*	18.3	39.1	0.064 J*	23.4	1.9	ND	ND	3.6 J*	17.4	84.0	ND	ND
K-16 (0-1.5)	23-July-90	ND	7	27.3	0.3	ND	6	6	10	17	ND	9	ND	ND	ND	ND	8	45.6	ND	ND
K-17 (0-1.5)	23-July-90	ND	13 [9]	64.8 [39.1]	0.3 [0.3]	0.7 [ND]	8 [10]	10 [8]	11 [13]	11 [13]	ND	12 [12]	ND [ND]	ND [ND]	ND [ND]	4 [ND]	11 [12]	53.4 [57.1]	ND [ND]	ND [ND]
K-18 (0-1.5)	23-July-90	ND	17	43.9	0.5	ND	10	8	12	14	ND	14	ND	ND	ND	5	13	64.3	ND	ND
K-19 (0-1.5)	23-July-90	ND	3	25.4	0.3	ND	7	6	10	12	ND	10	ND	ND	ND	ND	8	47.5	ND	ND
K-20 (0-1.5)	23-July-90	ND	6	24.9	0.3	ND	7	6	10	7	ND	9	ND	ND	ND	ND	10	43.4	ND	ND
Subsurface Soil Samples																				
ASB-3 (3 - 5)	04/23/97	ND	5.3	52.0	0.22 J*	0.24 J*	7.8	6.4	33.0	60.1	0.13	13.1	0.37 J*	0.47 J*	ND	ND	6.3	90.1	ND	ND
ASB-11 (3-5)	06/12/97	ND	3.4	25.2	0.20 J*	ND	7.0	6.5	10.4	8.1	0.016 J*	10.1	ND	ND	ND	ND	7.8	44.1	ND	ND
ASB-19 (2 - 4)	04/22/97	ND	6.7 J*	35.1	0.25 J*	0.30 J*	7.7	10.1	15.4	15.8	0.040	13.8	ND	ND	ND	ND	9.1	55.3 J*	ND	ND
ASB-23 (5 - 7)	19-Feb-98	ND	8.0	29.9	0.21 J*	ND	6.0	14.4	19.5	12.6	ND	17.1	0.40 J*	ND	ND	ND	7.1	56.6	ND	ND
ASB-24 (5 - 7)	19-Feb-98	ND	5.5	19.0 J*	0.18 J*	ND	6.7	10.8	12.9	12.6	ND	14.3	ND	ND	ND	ND	8.2	54.0	ND	ND
ASB-25 (5 - 7)	19-Feb-98	ND [ND]	5.0 [5.9]	49.0 [34.9]	0.35 J* [0.36 J*]	ND [ND]	8.9 [10.8]	9.3 [10.2]	15.2 [19.2]	9.7 [9.1]	ND[ND]	12.2 [16.8]	1.5 [0.99]	ND [ND]	ND [ND]	ND [ND]	11.0 [12.1]	57.5 [59.3]	ND [ND]	ND [ND]
ASB-26 (4 - 6)	17-Feb-98	ND	3.6	19.9 J*	0.17 J*	ND	6.7	7.6	13.7	16.3	0.015 J*	11.7	0.82	ND	ND	1.0 J*	7.1	65.1	ND	ND
ASB-27 (4 - 6)	17-Feb-98	ND	4.9	27.4	0.26 J*	ND	7.5	11.6	15.8	10.7	0.011 J*	17.8	0.49 J*	ND	ND	ND	8.3	64.6	ND	ND
ASB-28 (8 - 10)	17-Feb-98	ND	2.7	21.4 J*	0.29 J*	ND	11.7	13.1	21.5	7.7	0.0051 J*	21.1	0.69	ND	ND	ND	11.0	68.9	ND	ND
ASB-29 (4 - 6)	18-Feb-98	ND	3.6	27.2	0.23 J*	ND	7.1	7.6	12.2	6.0	ND	12.2	0.41 J*	ND	ND	ND	7.7	41.1	ND	ND
ASB-30 (2 - 4)	18-Feb-98	ND	3.2	45.3	0.29 J*	ND	10.5	7.3	14.3	7.5	0.13	13.2	ND	ND	ND	ND	10.6	42.2	ND	ND
ASB-31 (4 - 6)	18-Feb-98	ND	6.7	23.6	0.22 J*	ND	7.0	7.4	15.2	8.9	ND	12.5	0.60	ND	ND	ND	5.9	43.8	ND	ND
ASB-32 (8 - 10)	18-Feb-98	ND	2.8	10.2 J*	0.18 J*	ND	5.3	6.6	11.7	5.1	ND	ND	ND	ND	ND	ND	4.9 J*	39.1	696	ND
ASB-33 (2 - 4)	18-Feb-98	ND	5.0	87.3	0.55 J*	ND	19.7	16.5	28.2	10.8	ND	24.6	0.67	ND	1.0 J*	ND	24.8	75.2	ND	ND
ASB-34 (6 - 8)	18-Feb-98	ND	6.1	101	0.65 J*	ND	24.9	17.6	34.3	17.0	ND	29.1	1.3	ND	ND	ND	27.9	100	1140	ND
SCH-1 (8 - 10)	04/28/97	ND	6.3	51.7	0.39 J*	0.20 J*	13.3	11.7	21.4	9.3	ND	21.6	ND	0.49 J*	ND	ND	14.1	71.1	ND	ND
SCH-2 (6 - 8)	04/29/97	2.9 J*	6.1	39.7	0.33 J*	0.15 J*	11.7	12.9	13.6	8.8	ND	21.2	ND	0.41 J*	ND	ND	13.1	72.3	ND	ND
SCH-3 (2 - 4)	04/28/97	ND	5.5	24.8	0.33 J*	0.050 J*	10.5	8.8	12.4	10.0	ND	16.4	0.43 J*	0.67 J*	ND	ND	12.2	52.6	ND	ND
SCH-4 (8 - 10)	04/30/97	ND	4.1	36.2	0.34 J*	0.030 J*	8.5	8.1	11.1	7.3	0.040	15.0	0.32 J*	0.69 J*	ND	ND	10.3	56.6	ND	ND

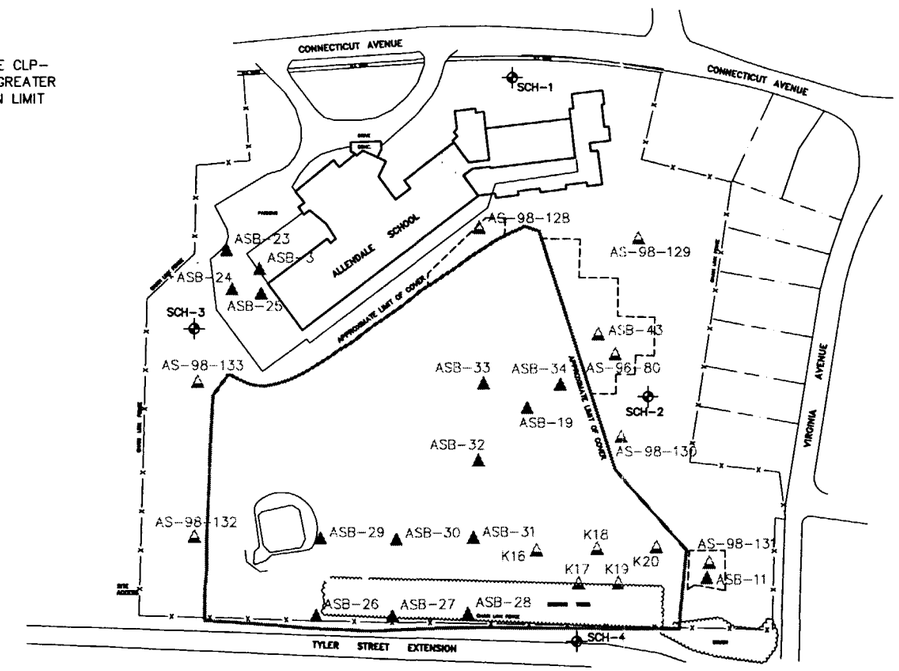
NOTES:

ND NOT DETECTED

-- NOT ANALYZED

J* ESTIMATED VALUE LESS THAN THE CLP-REQUIRED DETECTION LIMIT, BUT GREATER THAN THE INSTRUMENT DETECTION LIMIT

DUPLICATE ANALYSES SHOWN IN BRACKETS.



LEGEND:

—x—x— EXISTING CHAIN LINK FENCE

EXISTING TREES AND BRUSH

APPROXIMATE LIMITS OF SOIL REMOVAL

SOIL BORING LOCATION

SURFACE SOIL SAMPLE LOCATION

MONITORING WELL LOCATION

NOTE:

SAMPLE LOCATIONS ARE APPROXIMATE.

0 200' 400'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY, PITTSFIELD, MASSACHUSETTS

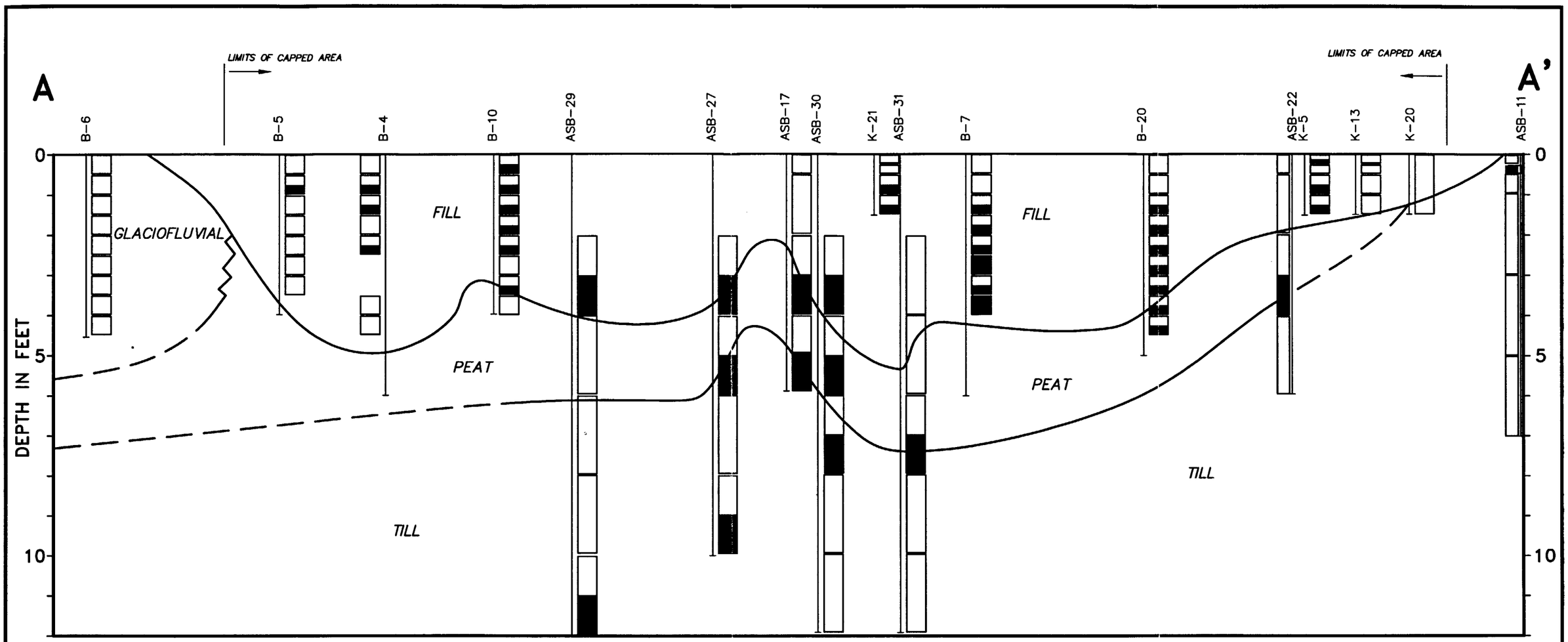
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF SOIL ANALYTICAL DATA-METALS, SULFIDE, AND CYANIDE

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

FIGURE 8

P: STD-BL_PCP
6/5/98 SYR-54-RLP YCC LBR
10184400/10184S19.DWG



NOTES:

1. HORIZONTAL LIMITS OF FILL ARE BASED UPON HISTORICAL TOPOGRAPHIC MAPPING FOR THE ALLENDALE SCHOOL PROPERTY.
2. BORING LOCATIONS B-3 AND B-9 ON THE ORIGINAL CROSS-SECTION HAVE BEEN SUPERCEDED BY INFORMATION FROM ASB-18.
3. BORING LOCATIONS B-2 AND B-8 ON THE ORIGINAL CROSS-SECTION HAVE BEEN SUPERCEDED BY INFORMATION FROM ASB-17.
4. SUBSURFACE INFORMATION NOT AVAILABLE FOR ALL BORINGS. CROSS-SECTION DEVELOPED ON A DEPTH BELOW GRADE BASIS.
5. CAPPED AREA CONSISTS OF GEOTEXTILE LAYER AND APPROXIMATELY 2 FEET OF COVER SOIL, NOT SHOWN.
6. GENERALIZED STRATIGRAPHY:

   FILL: Brown fine-medium SAND, scattered silt and clay

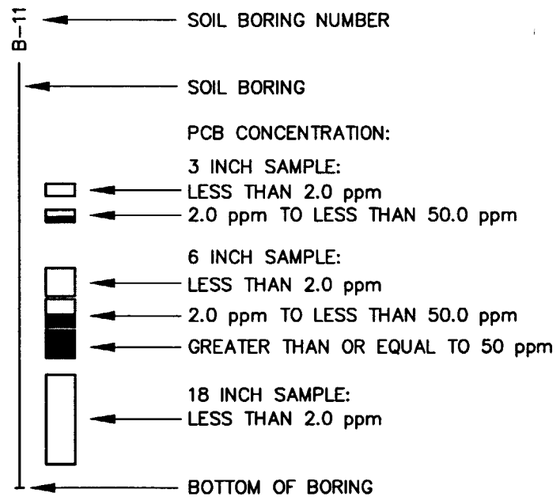
   GLACIOFLUVIAL: Brown-red fine coarse SAND, trace-some silt and fine-medium gravel

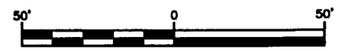
   PEAT: Brown-black SILT and ORGANICS

   TILL: Gray-brown SILT, SAND, and CLAYEY SILT

   See Section 2.7 for complete description of stratigraphic units.

LEGEND:





HORIZONTAL SCALE: 1" = 50' (APPROX.)

GENERAL ELECTRIC COMPANY, PITTSFIELD MASSACHUSSETTS

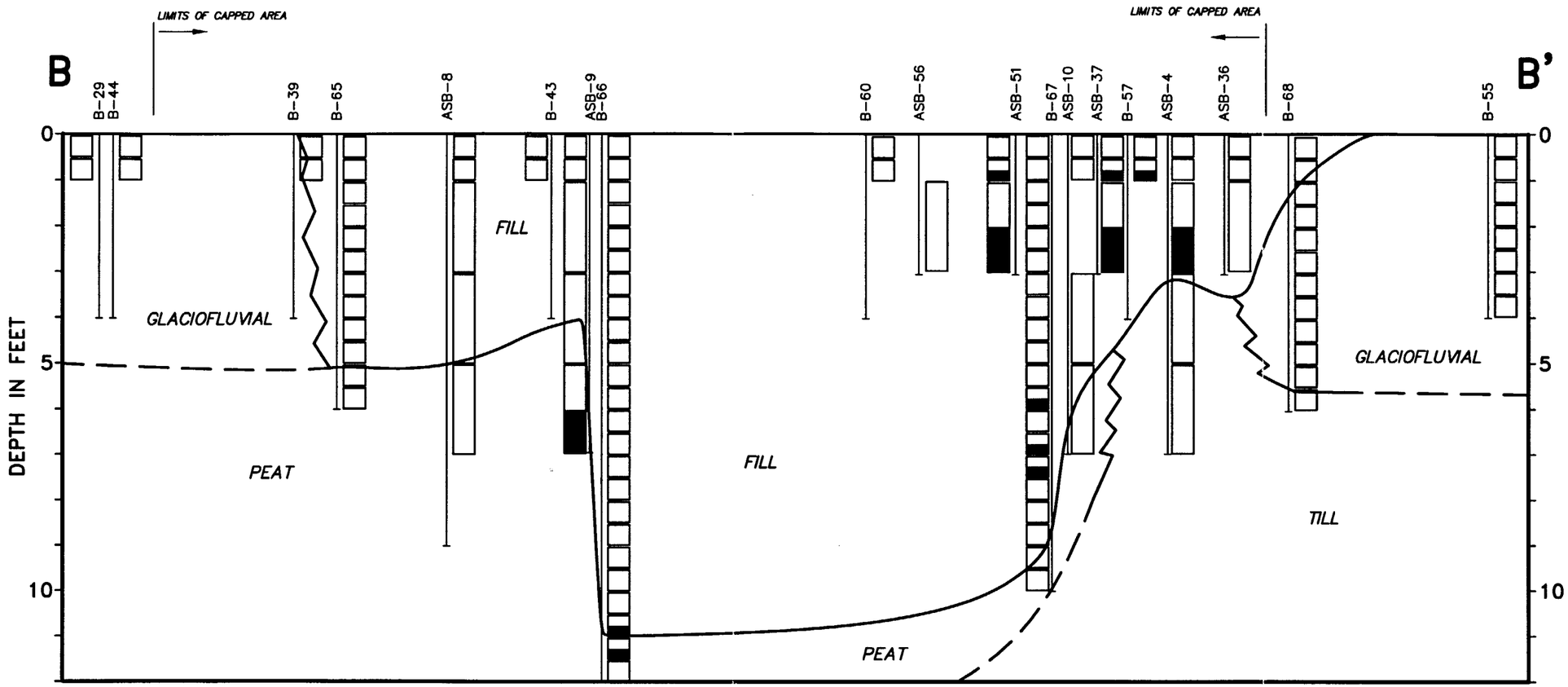
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

CROSS SECTION A-A'

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

FIGURE **9**

P: STD-BL_PCP
5/20/98 SYR-54-DMW PGL RCB PGL LBR
10184400\10184C1B.DWG



LEGEND:

B-66 ← SOIL BORING NUMBER

← SOIL BORING

PCB CONCENTRATION:

3 INCH SAMPLE:
- ← LESS THAN 2.0 ppm
- ← 2.0 ppm TO LESS THAN 50.0 ppm

6 INCH SAMPLE:
- ← LESS THAN 2.0 ppm
- ← 2.0 ppm TO LESS THAN 50.0 ppm
- ← GREATER THAN OR EQUAL TO 50 ppm

18 INCH SAMPLE:
- ← LESS THAN 2.0 ppm

← BOTTOM OF BORING

50' 0 50'

HORIZONTAL SCALE: 1" = 50' (APPROX.)

NOTES:

1. TRANSECT B-B' EXTENDS ACROSS SECTIONS OF BOTH THE 1951 EXISTING CONTOURS AND THE 1951 FINISH GRADING LIMITS. THE ORIGINAL GRADE LINE BETWEEN BORINGS B-65 AND B-57 DEPICTS THE ORIGINAL GRADE BENEATH THE 1951 FINISH GRADING.
2. SUBSURFACE INFORMATION NOT AVAILABLE FOR ALL BORINGS. CROSS-SECTION DEVELOPED ON A DEPTH BELOW GRADE BASIS.
3. GENERALIZED STRATIGRAPHY:

   FILL: Brown fine-medium SAND, scattered silt and clay

   GLACIOFLUVIAL: Brown-red fine coarse SAND, trace-some silt and fine-medium gravel

   PEAT: Brown-black SILT and ORGANICS

   TILL: Gray-brown SILT, SAND, and CLAYEY SILT

   See Section 2.7 for complete description of stratigraphic units.

GENERAL ELECTRIC COMPANY, PITTSFIELD MASSACHUSETTS

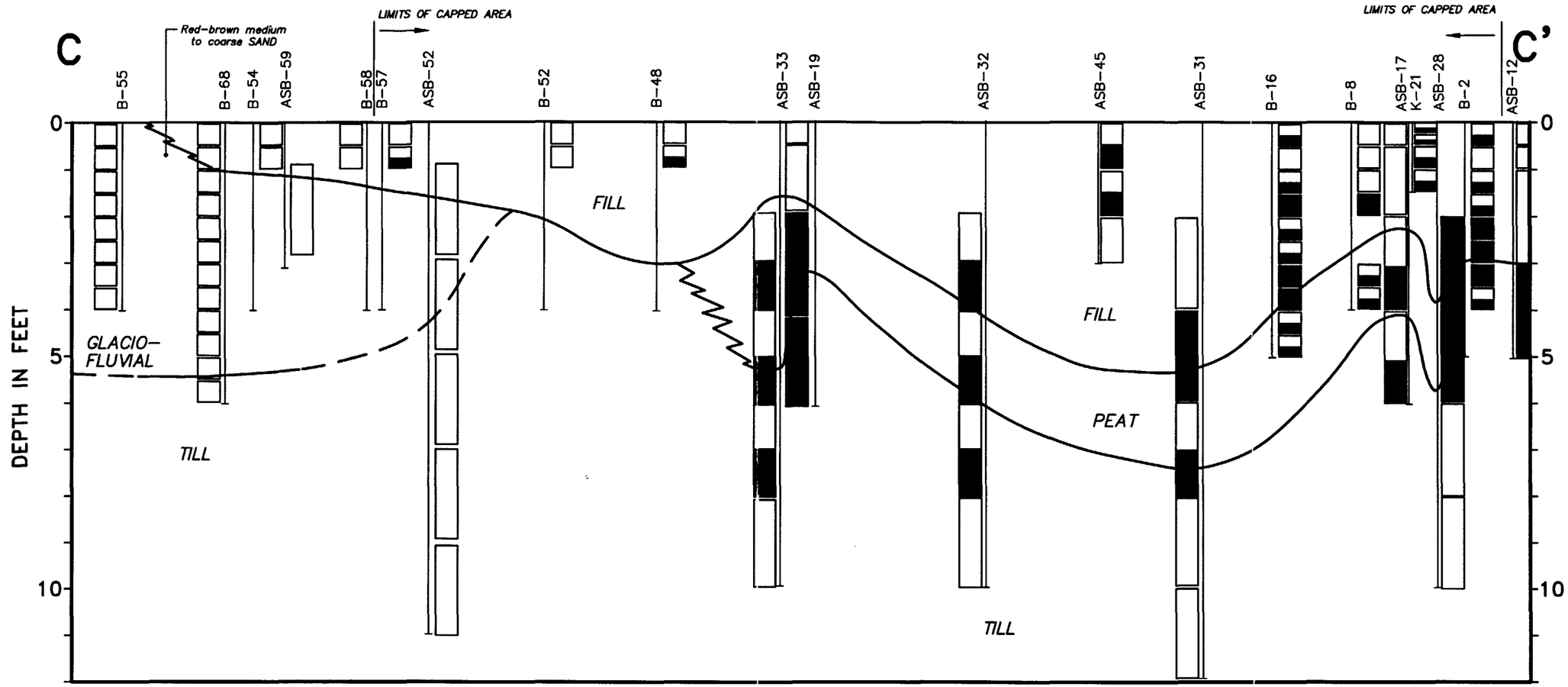
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

CROSS SECTION B-B'

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

FIGURE 10

P:STD-BL.PCP
5/20/98 SYR-54-DMW PGL RCB PGL LBR
10184400\10184C28.DWG



NOTES:

1. HORIZONTAL LIMITS OF FILL ARE BASED UPON HISTORICAL TOPOGRAPHIC MAPPING FOR THE ALLENDALE SCHOOL PROPERTY.
2. SUBSURFACE INFORMATION NOT AVAILABLE FOR ALL BORINGS. CROSS-SECTION DEVELOPED ON A DEPTH BELOW GRADE BASIS.
3. GENERALIZED STRATIGRAPHY:

   FILL: Brown fine-medium SAND, scattered silt and clay

   GLACIOFLUVIAL: Brown-red fine coarse SAND, trace-some silt and fine-medium gravel

   PEAT: Brown-black SILT and ORGANICS

   TILL: Gray-brown SILT, SAND, and CLAYEY SILT

   See Section 2.7 for complete description of stratigraphic units.

LEGEND:

B-16 ← SOIL BORING NUMBER

SOIL BORING

PCB CONCENTRATION:

3 INCH SAMPLE:
- LESS THAN 2.0 ppm
- 2.0 ppm TO LESS THAN 50.0 ppm

6 INCH SAMPLE:
- LESS THAN 2.0 ppm
- 2.0 ppm TO LESS THAN 50.0 ppm
- GREATER THAN OR EQUAL TO 50 ppm

18 INCH SAMPLE:
- LESS THAN 2.0 ppm

BOTTOM OF BORING

50' 0 50'

HORIZONTAL SCALE: 1" = 50' (APPROX.)

GENERAL ELECTRIC COMPANY, PITTSFIELD MASSACHUSSETTS

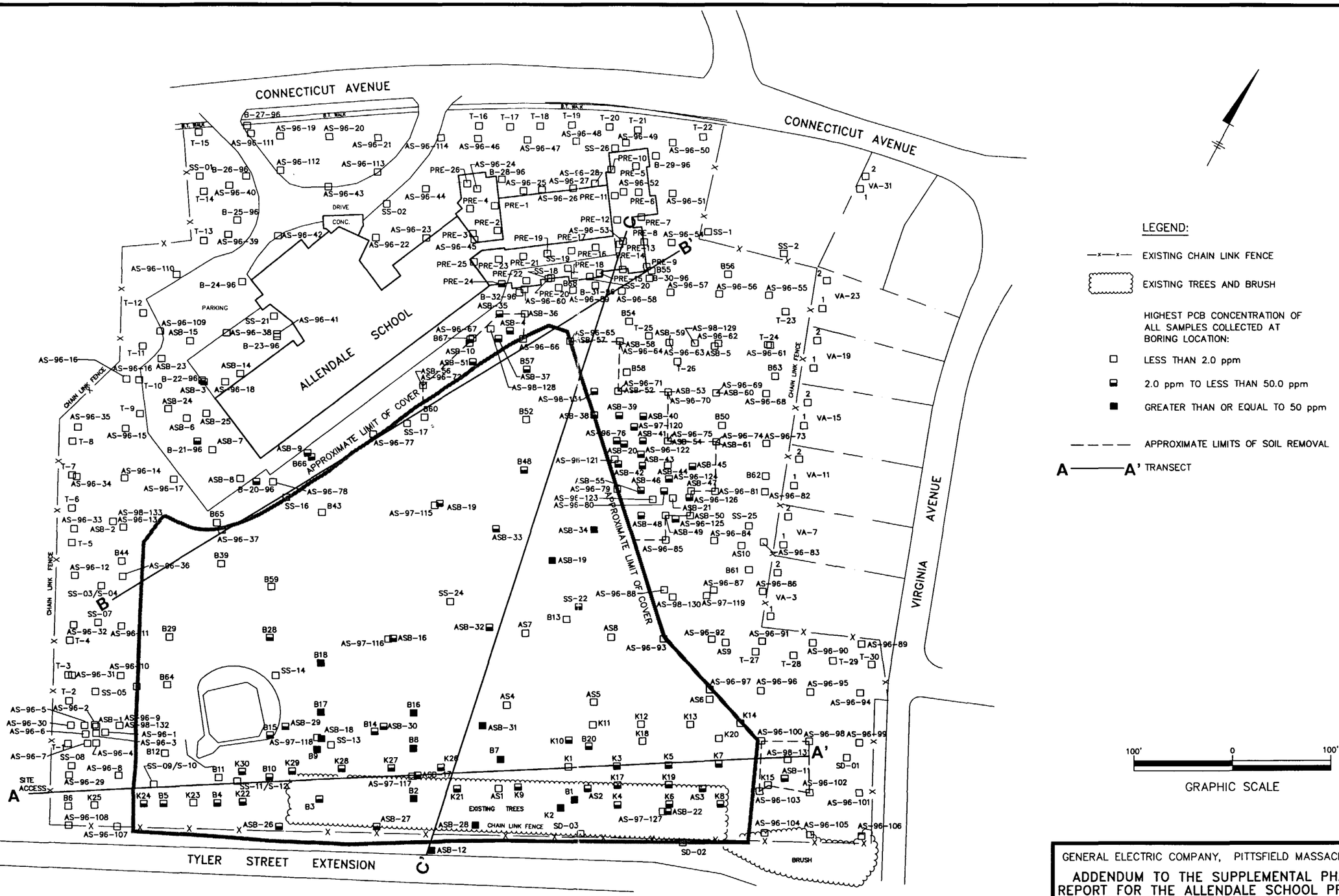
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

CROSS SECTION C-C'

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

FIGURE 11

P: STD-BL.PCP
5/20/98 SYR-54-DMW RCB JER LBR
10184400\10184C3B.DWG



GENERAL ELECTRIC COMPANY, PITTSFIELD MASSACHUSSETTS

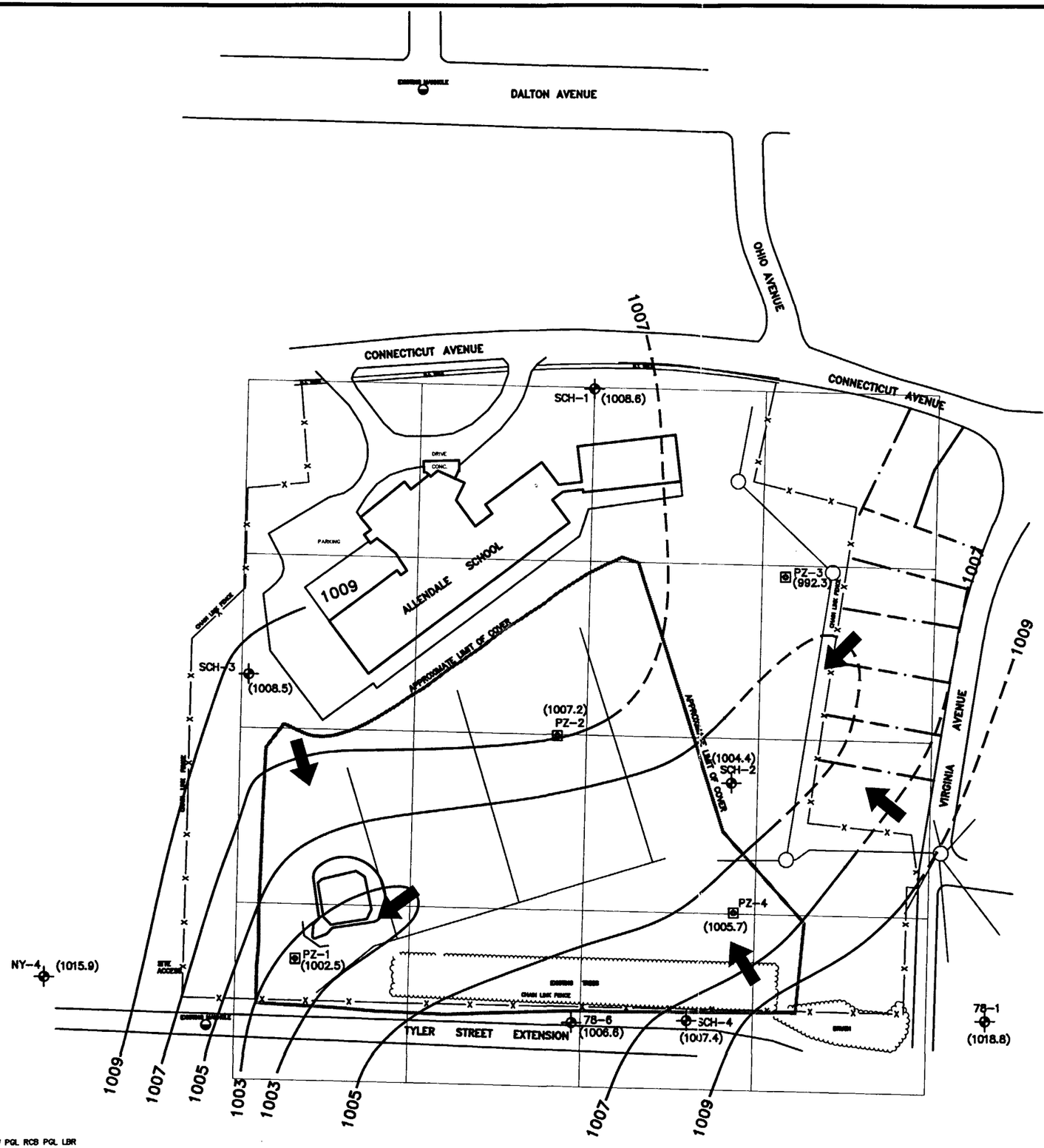
ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

SUMMARY OF HORIZONTAL EXTENT OF PCBs IN SOIL

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

FIGURE 12

P: STD-D2BL.PCP
6/11/98 SYR-54-RLP YCC GMS LBR
10184400/10184S17.DWG



LEGEND:

- EXISTING CHAIN LINK FENCE
- EXISTING TREES AND BRUSH
- EXISTING MONITORING WELL LOCATION
- EXISTING PIEZOMETER LOCATION
- EXISTING MANHOLE
- (1007.2) WATER TABLE ELEVATION ABOVE MEAN SEA LEVEL (NGVD 1929) (FEET)
- WATER TABLE ELEVATION CONTOUR LINE, DASHED WHERE INFERRED
- GROUND-WATER FLOW DIRECTION
- APPROXIMATE LOCATION OF DRAINAGE SYSTEM/ STORM DRAIN

NOTE: THE MARCH 3, 1998 MEASURED WATER TABLE ELEVATION AT PIEZOMETER PZ-3 WAS ANOMALOUSLY LOW; THEREFORE IT WAS NOT CONSIDERED AS PART OF CONTOUR DEVELOPMENT.

130' 0 130'

APPROXIMATE SCALE

GENERAL ELECTRIC COMPANY, PITTSFIELD MASSACHUSETTS

ADDENDUM TO THE SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

WATER TABLE ELEVATION CONTOUR MAP - MARCH 3, 1998

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

FIGURE 13

P: STD-PCP/D28L
5/21/98 SYR-54-RLP DMW PGL RCB PGL LBR
10184400/10184GW2.DWG

Attachments

Attachment A

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Subsurface Soil Boring Logs and Well Installation Reports

Date Start/Finish: 2/19/98 / 2/19/98
Drilling Company: Parratt-Wolff
Driller's Name: M. Marshall/J. Percy
Drilling Method: Geoprobe-Direct Push

Spoon Size: in.

Northing:
Easting:
Well Casing: feet

Borehole Depth: 7 ft.
Ground Surface: feet

Geologist: R.A. Wagner

Soil Boring No: ASB-23

Client:
General Electric Company

Location:
Allendale School - Pittsfield, MA
MA-MCP Phase II Investigation

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Soil Boring Construction
gs elevation ft.											
0										GROUND SURFACE	
		(0-0.5')		NA	NA	0.1	NA			GRAVEL sub-base fill for parking lot.	
		(0.5-1')		NA	NA	0.0	NA				
		(1-3')		NA	NA	0.5	0.0			Dark brown medium to coarse SAND and fine GRAVEL, some fine Sand, little Silt (wet).	Backfill with cement/bentonite grout 0.0' to 7.0' bgs
		(3-5')		NA	NA	2.0	1.1			Dark brown medium to coarse SAND and fine GRAVEL, little Silt and fine Sand.	
5	-5	(5-7')		NA	NA	2.0	2.0			Brown fine to coarse SAND, some Silt and fine Gravel.	
										Bottom of boring 7.0' bgs.	
10	-10										
15	-15										

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

Remarks:

NA=Not applicable. bgs-below ground surface. Sample (1-3'), (3-5') and (5-7') analyzed for PCBs. Samples (5-7') analyzed for Appendix IX+3. All Samples analyzed by Quanterra laboratories.

Saturated Zones

Date / Time	Elevation	Depth

Project: 101.84.200
Script: nbblwell
Date: 08/22/98

Date Start/Finish: 2/19/98 / 2/19/98
Drilling Company: Parratt-Wolff
Driller's Name: M. Marshall/J. Percy
Drilling Method: Geoprobe-Direct Push

Spoon Size: in.

Northing:
Easting:
Well Casing: feet

Borehole Depth: 7 ft.
Ground Surface: feet

Geologist: R.A. Wagner

Soil Boring No: ASB-24

Client:
General Electric Company

Location:
Allendale School - Pittsfield, MA
MCP Phase II Investigation

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Soil Boring Construction
gs elevation ft.											
0										GROUND SURFACE	
		(0-0.5')		NA	NA	0.5	0.2			Dark brown coarse SAND and fine GRAVEL, little Silt.	
		(0.5-1')		NA	NA	0.5	0.2			Brown fine SAND, trace Silt.	
		(1-3')		NA	NA	2.0	0.3			Brown fine SAND, trace Silt, moist.	Backfill with cement/bentonite grout 0.0' to 7.0' bgs
		(3-5')		NA	NA	1.5	0.2			Brown medium to coarse SAND and fine GRAVEL, little fine Sand and Silt.	
5	-5	(5-7')		NA	NA	2.0	3.5			Brown fine to coarse SAND and fine GRAVEL, little Silt.	
										Bottom of boring 7.0' bgs.	
10	-10										
15	-15										

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

Remarks:

NA=Not applicable. bgs-below ground surface. Sample (0-0.5'), 0.5-1'), (1-3'), (3-5') and (5-7') analyzed for PCBs. Samples (5-7') analyzed for Appendix IX+3. All Samples analyzed by Quanterra laboratories.

Saturated Zones

Date / Time	Elevation	Depth

Project: 101.84.200
Script: nbblwell
Date: 06/22/98

Date Start/Finish: 2/19/98 / 2/19/98
Drilling Company: Parratt-Wolff
Driller's Name: M. Marshall/J. Percy
Drilling Method: Geoprobe-Direct Push

Spoon Size: in.

Northing:
Easting:
Well Casing: feet

Borehole Depth: 7 ft.
Ground Surface: feet

Geologist: R.A. Wagner

Soil Boring No: ASB-25

Client:
General Electric Company

Location:
Allendale School - Pittsfield, MA
MCP Phase II Investigation

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Soil Boring Construction
gs elevation ft											
0										GROUND SURFACE	
		(0-0.5')		NA	NA	0.5	0.1			Brown SILT, some fine to coarse Sand and fine Gravel, moist.	
		(0.5-1')		NA	NA	0.5	0.0			Brown fine SAND, little Silt, moist	
		(1-3')		NA	NA	1.0	0.1				Backfill with cement/bentonite grout 0.0' to 7.0' bgs
		(3-5')		NA	NA	2.0	0.1			Brown fine SAND, little Silt and medium to coarse Sand, moist.	
5	-5	(5-7')		NA	NA	2.0	0.1			Brown fine SAND, some Silt, little medium to coarse Sand.	
										Bottom of boring 7.0' bgs.	
10	-10										
15	-15										

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

Remarks:
NA=Not applicable. bgs-below ground surface. Sample (0-0.5'), (0.5-1'), (1-3'), (3-5') and (5-7') analyzed for PCBs. Samples (5-7)' and ASB-DUP3 (5-7') analyzed for Appendix IX+3. ASB-DUP4 taken at (3-5') for PCBs Appendix IX+3 surficial sample collected (0-0.5').

Saturated Zones

Date / Time	Elevation	Depth

Project: 101.84.200
Script: nbblwell
Date: 06/22/98

Date Start/Finish: 2/17/98 / 2/17/98
Drilling Company: Parratt-Wolff
Driller's Name: M. Marshall/J. Percy
Drilling Method: Geoprobe-Direct Push

Spoon Size: in.

Northing:
Easting:
Well Casing: feet

Borehole Depth: 10 ft.
Ground Surface: feet

Geologist: R.A. Wagner

Soil Boring No: ASB-26

Client:
General Electric Company

Location:
Allendale School - Pittsfield, MA
MCP Phase II Investigation

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Soil Boring Construction
gs elevation ft.											
0										**GROUND SURFACE**	
				NA	NA	NA	NA			Cap material 0-2'bgs. Brown fine to medium SAND, some Silt, trace fine Gravel, wet. Cobbles block macrocore.	
		(2-4')		NA	NA	1.8	25.0			Grey-brown fine SAND and SILT, trace fine Gravel and black wood fibers, moist.	Backfill with cement/bentonite grout 0.0' to 10.0' bgs
5	-5	(4-6')		NA	NA	1.5	61.0				
		(6-8')		NA	NA	1.2	37.1				
		(8-10')		NA	NA	0.7	43.8			**Fill/Native Boundary** Grey-brown fine SAND, trace Silt, saturated.	
10	-10									Bottom of boring 10.0' bgs.	
										Comment: Offset 2-4' sample f and resampled due to poor recovery.	
15	-15										

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Remarks:

NA=Not applicable. bgs-below ground surface. Sample (2-4'), (4-6'), (6-8'), and (8-10') analyzed for PCBs. Sample (2-4'), (6-8') and (8-10') analyzed for VOCs. Sample (4-6') analyzed for Appendix IX+3

Saturated Zones

Date / Time	Elevation	Depth

Project: 101.84.200
Script: nbblwell
Date: 06/22/98

Date Start/Finish: 2/17/98 / 2/17/98
Drilling Company: Parratt-Wolff
Driller's Name: M. Marshall/J. Percy
Drilling Method: Geoprobe-Direct Push

Spoon Size: in.

Northing:
Easting:
Well Casing: feet

Borehole Depth: 10 ft.
Ground Surface: feet

Geologist: R.A. Wagner

Soil Boring No: ASB-27

Client:
General Electric Company

Location:
Allendale School - Pittsfield, MA
MCP Phase II Investigation

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Soil Boring Construction
gs elevation ft.											
0										GROUND SURFACE	
		NA		NA	NA	NA	NA			Cap material 0-2'bgs. Brown SILT.	
		(2-4')		NA	NA	1.5	20.8			Brown SILT, little fine to medium Sand, moist.	Backfill with cement/bentonite grout 0.0' to 10.0' bgs
5	-5	(4-6')		NA	NA	1.8	88.3			Grey-brown fine to medium SAND, trace coarse Sand, black wood fibers.	
		(6-8')		NA	NA	1.5	45.6			Grey/Black fine SAND and SILT with black wood fibers.	
		(8-10')		NA	NA	2.0	17.6			Fill/Native Boundary Grey-brown fine SAND, trace Silt and coarse Sand, wet. Water at 8'bgs.	
10	-10									Bottom of boring 10.0' bgs.	
15	-15										

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Remarks:

NA=Not applicable. bgs=below ground surface. Sample (2-4'), (4-6'), (6-8'), and (8-10') analyzed for PCBs. Sample (4-6') analyzed for Appendix IX+3. ASB-DUP1 and MS/MSD taken at (8-10').

Saturated Zones

Date / Time	Elevation	Depth

Project: 101.84.200
Script: nbblwell
Date: 06/22/98

Date Start/Finish: 2/17/98 / 2/17/98
Drilling Company: Parratt-Wolff
Driller's Name: M. Marshall/J. Percy
Drilling Method: Geoprobe-Direct Push

Spoon Size: in.

Northing:
Easting:
Well Casing: feet

Borehole Depth: 10 ft.
Ground Surface: feet

Geologist: R.A. Wagner

Soil Boring No: ASB-28

Client:
General Electric Company

Location:
Allendale School - Pittsfield, MA
MCP Phase II Investigation

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Soil Boring Construction
gs elevation ft.											
0										GROUND SURFACE	
		NA		NA	NA	NA	NA			Cap material 0-2'bgs. Brown SILT, some fine Sand.	
		(2-4')		NA	NA	2.0	0.0			Brown fine SAND, some Silt, little coarse Sand and fine Gravel, damp.	Backfill with cement/bentonite grout 0.0' to 10.0' bgs
5	-5	(4-6')		NA	NA	1.5	0.0			Brown/grey fine SAND, little medium to coarse Sand and Silt (wet).	
		(6-8')		NA	NA	1.5	6.8			Grey fine SAND, some black Peat and Silt (wet).	
		(8-10')		NA	NA	2.0	12.6			Fill/Native Boundary Grey fine SAND, little medium Sand and Silt, saturated.	
10	-10									Bottom of boring 10.0' bgs.	
15	-15										

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Remarks:

NA=Not applicable. bgs=below ground surface. Sample (2-4'), (4-6'), (6-8') and (8-10') analyzed for PCBs. Sample (8-10') analyzed for Appendix IX+3. All Samples analyzed by Quanterra laboratories.

Saturated Zones

Date / Time	Elevation	Depth

Project: 101.84.200
Script: nbblwell
Date: 06/22/98

Date Start/Finish: 2/18/98 / 2/18/98
Drilling Company: Parratt-Wolff
Driller's Name: M. Marshall/J. Percy
Drilling Method: Geoprobe-Direct Push

Spoon Size: in.

Northing:
Easting:
Well Casing: feet

Borehole Depth: 14 ft.
Ground Surface: feet

Geologist: R.A. Wagner

Soil Boring No: ASB-29

Client:
General Electric Company

Location:
Allendale School - Pittsfield, MA
MCP Phase II Investigation

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Soil Boring Construction
gs elevation ft											
0										GROUND SURFACE	
		NA		NA	NA	NA	NA			Cap material 0-2'bgs. Brown fine SAND, some medium to coarse Sand, trace Silt, moist.	
		(2-4')		NA	NA	2.0	21.8			Brown fine SAND, some Silt, little medium to coarse Sand and Silt, moist.	Backfill with cement/bentonite grout 0.0' to 14.0' bgs
5	-5	(4-6')		NA	NA	2.0	29.5			Grey fine SAND, some medium to coarse Sand, trace Silt and fine Gravel, moist.	
		(6-8')		NA	NA	2.0	0.0			Brown fine SAND, some Silt and brown Peat material, little medium to coarse Sand, moist/wet.	
		(8-10')		NA	NA	2.0	0.0			Fill/Native Boundary Brown-grey fine to coarse SAND, little Silt, wet.	
10	-10	(10-12')		NA	NA	2.0	8.2			Brown fine to medium SAND, some Silt, little fine Gravel, saturated.	
		(12-14')		NA	NA	2.0	NA				
15	-15									Bottom of boring 14.0' bgs.	

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Remarks:
NA=Not applicable. bgs=below ground surface. Sample (2-4'), (4-6'), (6-8'), (8-10') and (10-12') analyzed for PCBs. Sample (2-4') analyzed for VOCs. Sample (4-6') analyzed for Appendix IX+3.

Saturated Zones

Date / Time	Elevation	Depth

Project: 101.84.200
Script: nbblwell
Date: 06/22/98

Date Start/Finish: 2-18-98 / 2-18-98
Drilling Company: Parratt-Wolff
Driller's Name: M. Marshall/J. Percy
Drilling Method: Geoprobe-Direct Push

Spoon Size: in.

Northing:
Easting:
Well Casing: feet

Borehole Depth: 12 ft.
Ground Surface: feet

Geologist: R.A. Wagner

Soil Boring No: ASB-30

Client:
General Electric Company

Location:
Allendale School - Pittsfield, MA
MCP Phase II Investigation

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Soil Boring Construction
gs elevation ft											
0										GROUND SURFACE	
		NA		NA	NA	2.0	NA			Cap material 0-2'bgs. Brown fine to medium SAND, trace Silt.	
		(2-4')		NA	NA	1.5	168.0			Brown SILT and fine SAND, trace medium to coarse Sand and fine Gravel, moist.	Backfill with cement/bentonite grout 0.0' to 12.0' bgs
5	-5	(4-6')		NA	NA	1.2	0.0			Grey SILT, some coarse Sand and fine Gravel, little fine to medium Sand, moist.	
		(6-8')		NA	NA	1.5	0.0			Brown fine SAND and SILT, some dark brown Peat material, wet to saturated.	
		(8-10')		NA	NA	1.3	0.0			Fill/Native Boundary Brown fine SAND, little Silt and medium to coarse Sand, wet.	
10	-10	(10-12')		NA	NA	1.5	72.1			Brown SILT and fine SAND, little coarse Sand and fine Gravel, saturated.	
										Bottom of boring 12.0' bgs.	
15	-15										

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Remarks:

NA=Not applicable. bgs=below ground surface. Sample (2-4'), (4-6'), (6-8'), (8-10') and (10-12') analyzed for PCBs. Sample (10-12') analyzed for VOCs. Sample (2-4') analyzed for Appendix IX+3.

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 2/18/98 / 2/18/98
Drilling Company: Parratt-Wolff
Driller's Name: M. Marshall/J. Percy
Drilling Method: Geoprobe-Direct Push

Spoon Size: in.

Northing:
Easting:
Well Casing: feet

Borehole Depth: 12 ft.
Ground Surface: feet

Geologist: R.A. Wagner

Soil Boring No: ASB-31

Client:
General Electric Company

Location:
Allendale School - Pittsfield, MA
MCP Phase II Investigation

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Soil Boring Construction
gs elevation ft											
0										GROUND SURFACE	
		NA		NA	NA	2.0	NA			Cap material to 2.4'bgs. Brown SILT, little fine to medium Sand, trace coarse Sand.	
		(2-4')		NA	NA	2.0	30.3			Grey SILT and fine SAND, some coarse Sand, little fine Gravel, moist.	
5	-5	(4-6')		NA	NA	2.0	127.0			Grey fine to medium SAND, some coarse Sand, little Silt, moist.	
		(6-8')		NA	NA	1.5	37.1			Grey SILT, some fine to medium Sand, little coarse Sand and fine Gravel, moist.	
		(8-10')		NA	NA	1.5	44.2			**Fill/Native Boundary** Grey SILT, some fine to medium Sand and dark brown Peat material, moist/wet.	
10	-10	(10-12')		NA	NA	2.0	18.0			Brown SILT and fine SAND, some medium to coarse Sand, little fine Gravel, saturated.	
										Bottom of boring 12.0' bgs.	
15	-15										

Backfill with cement/bentonite grout 0.0' to 12.0' bgs

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Remarks:

NA=Not applicable. bgs-below ground surface. Samples (2-4'), (4-6'), (6-8'), (8-10') and (10-12') analyzed for. PCBs. Sample (4-6') analyzed for Appendix IX+3. Samples (2-4'), (6-8'), (8-10') and (10-12') analyzed for VOCs.

Saturated Zones

Date / Time	Elevation	Depth

Project: 101.84.200
Script: nbblwell
Date: 06/22/98

Date Start/Finish: 2/18/98 / 2/18/98
Drilling Company: Parratt-Wolff
Driller's Name: M. Marshall/J. Percy
Drilling Method: Geoprobe-Direct Push

Spoon Size: in.

Northing:
Easting:
Well Casing: feet

Borehole Depth: 10 ft.
Ground Surface: feet

Geologist: R.A. Wagner

Soil Boring No: ASB-32

Client:
General Electric Company

Location:
Allendale School - Pittsfield, MA
MCP Phase II Investigation

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Soil Boring Construction
gs elevation ft.											
0										GROUND SURFACE	
		NA		NA	NA	1.5	NA			Cap material to 2.0'bgs.	
		(2-4')		NA	NA	1.6	0.1*			Grey fine to medium SAND, some Silt, little coarse Sand, moist.	Backfill with cement/bentonite grout 0.0' to 10.0' bgs
5	-5	(4-6')		NA	NA	1.6	0.2			Grey fine SAND, some Silt and medium to coarse Sand, moist.	
		(6-8')		NA	NA	1.7	0.2			**Fill/Native Boundary** Grey SILT, some dark brown Peat material, little medium to coarse Sand and fine Gravel, wet.	
		(8-10')		NA	NA	2.0	0.1			Brown fine to medium SAND, little coarse Sand and fine Gravel, wet/saturated at 8'bgs.	
10	-10									Bottom of boring 10.0' bgs.	
15	-15									**Comment:** *Used PID from Pittsfield office.	

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Remarks:
NA=Not applicable. bgs=below ground surface. Samples (2-4'), (4-6'), (6-8'), and (8-10') analyzed for PCBs. Sample (8-10') analyzed for Appendix IX+3. All Samples analyzed by Quanterra laboratories.

Saturated Zones

Date / Time	Elevation	Depth

Project: 10184.200 Script: nbblwell Date: 06/22/98

Date Start/Finish: 2/18/98 / 2/18/98 **Drilling Company:** Parratt-Wolff **Driller's Name:** M. Marshall/J. Percy **Drilling Method:** Geoprobe-Direct Push **Spoon Size:** in.	**Northing:** **Easting:** **Well Casing:** feet **Borehole Depth:** 10 ft. **Ground Surface:** feet **Geologist:** R.A. Wagner	**Soil Boring No: ASB-33** **Client:** General Electric Company **Location:** Allendale School - Pittsfield, MA MCP Phase II Investigation

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Soil Boring Construction
gs elevation ft.											
0										**GROUND SURFACE**	
		NA		NA	NA	2.0	NA			Cap material to 2.5'bgs. Brown fine SAND and SILT, trace coarse Sand and fine Gravel.	Backfill with cement/bentonite grout 0.0' to 10.0' bgs
		(2-4')		NA	NA	1.5	200.0*			Brown/Grey fine SAND and SILT, little medium to coarse Sand and fine Gravel, wet.	
5	-5	(4-6')		NA	NA	1.5	0.0			Grey SILT, some fine Sand, little dark brown Peat material and coarse Sand, wet.	
		(6-8')		NA	NA	1.5	0.0			**Fill/Native Boundary** Grey SILT, some fine Sand, dark brown Peat material coarse Sand, wet.	
		(8-10')		NA	NA	1.5	0.0			Brown fine SAND and SILT, some medium to coarse Sand, trace fine Gravel, saturated.	
10	-10									Bottom of boring 10.0' bgs.	
										Comment: *Initial response from PID. Then PID malcfunctioned - possible moisture problem.	
15	-15										

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Remarks:

NA=Not applicable. bgs=below ground surface. Samples (2-4'), (4-6'), (6-8'), and (8-10') analyzed for PCBs. Sample (2-4') analyzed for Appendix IX+3. All Samples analyzed by Quanterra laboratories.

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 2/18/98 / 2/18/98
Drilling Company: Parratt-Wolff
Driller's Name: M. Marshall/J. Percy
Drilling Method: Geoprobe-Direct Push

Spoon Size: in.

Northing:
Easting:
Well Casing: feet

Borehole Depth: 12 ft.
Ground Surface: feet

Geologist: R.A. Wagner

Soil Boring No: ASB-34

Client:
General Electric Company

Location:
Allendale School - Pittsfield, MA
MCP Phase II Investigation

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Soil Boring Construction
gs elevation ft											
0										GROUND SURFACE	
		NA		NA	NA	2.0	NA			Cap material to 2.3'bgs. Brown SILT, little fine to medium Sand, moist.	Backfill with cement/bentonite grout 0.0' to 12.0' bgs
		(2-4')		NA	NA	2.0	7.1			Grey-brown SILT, some fine to medium Sand, little fine Gravel, moist.	
5	-5	(4-6')		NA	NA	1.5	10.1			Grey SILT, some fine to coarse Sand, little dark brown Peat material, wet.	
		(6-8')		NA	NA	2.0	10.7			Grey SILT, some fine to coarse Sand, some dark brown Peat material, wet.	
		(8-10')		NA	NA	1.5	9.6			Fill/Native Boundary Brown fine SAND, some Silt and medium to coarse Sand, little fine Gravel, wet.	
10	-10	(10-12')		NA	NA	2.0	9.2			Brown fine to medium SAND, some Silt, little coarse Sand, saturated.	
										Bottom of boring 12.0' bgs.	
15	-15										

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Remarks:

NA=Not applicable. bgs=below ground surface. Samples (2-4'), (4-6'), (6-8'), (8-10') and (10-12') analyzed for PCBs. Sample (4-6') analyzed for VOCs. Sample (6-8') analyzed for Appendix IX+3. All Samples analyzed by Quanterra laboratories.

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 2/19/98 / 2/19/98
Drilling Company: Parratt-Wolff
Driller's Name: M. Marshall/J. Percy
Drilling Method: Ingersoll-Rand

Spoon Size: in.

Northing:
Easting:
Well Casing: feet

Borehole Depth: 18 ft.
Ground Surface: feet

Geologist: R.A. Wagner

Piezometer No: PZ-1

Client:
General Electric Company

Location:
4Allendale School - Pittsfield, MA
MCP Phase II Investigation

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description
gs elevation ft										
0										**GROUND SURFACE**
		NA		NA	NA	NA	NA			Brown fine SAND, some Silt, little medium to coarse Sand and fine Gravel, moist.
5	-5									
		NA		NA	NA	NA	NA			Brown SILT and fine SAND, little Clay and medium to coarse Sand, moist-wet.
10	-10									
		NA		NA	NA	NA	NA			Brown SILT, some fine Sand, little Clay and medium to coarse Sand, wet.
15	-15									

Piezometer Construction

- 8-in flush mounted curb box
- Locking pressure fit well cap
- Concrete pad
- Type I Portland/ 5% bentonite grout 1.0' to 3.5' bgs
- Hydrated bentonite chip seal 3.5' to 6.2' bgs
- 2-in diameter schedule 40 PVC well casing to 8.0'bgs
- Washed silica sand pack (Grade #1) 6.2' to 17.8'bgs
- 2-in diameter, 0.010-in slotted schedule 40 PVC well screen 8.0' to 18.0' bgs

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Remarks:
NA=Not applicable. bgs=below ground surface.

Saturated Zones

Date / Time	Elevation	Depth

Project: 101.84.200
Script: nbblwell
Date: 06/22/98

Client:
General Electric Company

Location:
4Allendale School – Pittsfield, MA
MCP Phase II Investigation

Piezometer No: PZ-1

Total Depth = 18 ft.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Piezometer Construction
0	-5	NA		NA	NA	NA	NA			Brown SILT, some fine SAND, little Clay and medium to coarse Sand, saturated.	2-in diameter, 0.010-in slotted schedule 40 PVC well screen 8.0' to 17.8' bgs
											Schedule 40 PVC sump 17.8' to 18.0' bgs
										Bottom of boring 18.0' bgs.	
20	-20										
25	-25										
30	-30										
35	-35										

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Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 2/19/98 / 2/19/98
Drilling Company: Parratt-Wolff
Driller's Name: M. Marshall/J. Percy
Drilling Method: Ingersoll-Rand

Spoon Size: in.

Northing:
Easting:
Well Casing: feet

Borehole Depth: 18 ft.
Ground Surface: feet

Geologist: R.A. Wagner

Piezometer No: PZ-2

Client:
General Electric Company

Location:
Allendale School
Pittsfield, MA-MCP Phase II Investigation

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description
gs elevation ft										GROUND SURFACE
0										Cap material to 2.5'bgs. Brown fine SAND and SILT, trace coarse Sand and fine Gravel.
		NA		NA	NA	NA	NA			Brown/Grey fine SAND and SILT, little medium to coarse Sand and fine Gravel, wet.
5	-5									Grey SILT, some fine Sand, little dark brown Peat material and coarse, Sand, wet.
		NA		NA	NA	NA	NA			Grey SILT, some fine Sand, dark brown Peat material coarse Sand, wet.
10	-10									**Fill/Native Boundary**
		NA		NA	NA	NA	NA			Brown fine SAND and SILT, some medium to coarse Sand, trace fine Gravel, saturated.
15	-15									End of soil descriptions at 10.0' bgs.

Piezometer Construction

- 8-in flush-mounted curb box
- Locking pressure fit well cap
- Concrete pad
- Type I Portland/5% bentonite grout 1.0' to 3.7' bgs
- Hydrated bentonite clip seal 3.7' to 6.0' bgs
- 2-in diameter schedule 40 PVC well casing to 8.0' bgs
- Washed silica sand pack (Grade #1) 6.0' to 18.0' bgs
- 2-in diameter, 0.010-in slotted schedule 40 PVC well screen 8.0' to 17.8' bgs

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Remarks:
NA=Not applicable. bgs=below ground surface.

Saturated Zones

Date / Time	Elevation	Depth

Client:
General Electric Company

Location:
Allendale School
Pittsfield, MA–MCP Phase II Investigation

Piezometer No: PZ–2

Total Depth = 18 ft.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Piezometer Construction
0	0	NA		NA	NA	NA	NA				2–in diameter, 0.010–in slotted schedule 40 PVC well screen 8.0' to 17.8 bgs Schedule 40 PVC sump 17.8' to 18.0' bgs
										Bottom of boring 18.0' bgs.	
20	-20										
25	-25										
30	-30										
35	-35										

Comment:
Soil descriptions from ASB–33 used from 0.0' to 10.0' bgs.

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Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Project: 101.84.200
Script: nbblwell
Date: 06/22/98

Date Start/Finish: 2/18/98 / 2/18/98
Drilling Company: Parratt-Wolff
Driller's Name: M. Marshall/J. Percy
Drilling Method: Ingersoll-Rand

Spoon Size: in.

Northing:
Easting:
Well Casing: feet

Borehole Depth: 18 ft.
Ground Surface: feet

Geologist: R.A. Wagner

Piezometer No: PZ-3

Client:
General Electric Company

Location:
Allendale School - Pittsfield, MA
MCP Phase II Investigation

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description
gs elevation ft.										
0										GROUND SURFACE
		NA		NA	NA	NA	NA			Brown fine SAND and SILT, some medium to coarse Sand and fine Gravel.
5	-5	NA		NA	NA	NA	NA			Brown-grey SILT and fine SAND, little medium to coarse Sand and fine Gravel.
10	-10	NA		NA	NA	NA	NA			Brown fine to medium SAND and SILT, some coarse Sand and fine Gravel.
		NA		NA	NA	NA	NA			Moist at 12'bgs.
15	-15									

Piezometer Construction:
- 8-in flush mounted curb box
- Locking pressure fit well cap
- Concrete pad
- Type I Portland/5% bentonite grout 1.0' to 4.0' bgs
- Hydrated bentonite chip seal 4.0' to 6.0' bgs
- 2-in diameter schedule 40 PVC well casing to 8.0'bgs
- Washed silica sand pack (Grade #1) 6.0' to 18.0'bgs
- 2-in diameter, 0.010-in slotted schedule 40 PVC well screen 8.0' to 17.8' bgs

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Remarks:
NA=Not applicable. bgs=below ground surface.

Saturated Zones

Date / Time	Elevation	Depth

Client:
General Electric Company

Location:
Allendale School – Pittsfield, MA
MCP Phase II Investigation

Piezometer No: PZ-3

Total Depth = 18 ft.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Piezometer Construction
0	-5	NA		NA	NA	NA	NA				
		NA		NA	NA	NA	NA			Brown fine SAND, some Silt, little fine Gravel.	2-in diameter, 0.010-in slotted schedule 40 PVC well screen 8.0' to 17.8' bgs
										Bottom of boring 18.0' bgs.	Schedule 40 PVC sump 17.8' to 18.0' bgs
20	-20										
25	-25										
30	-30										
35	-35										

BBL
BLASLAND, BOUCK & LEE, INC.
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Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 2/19/98 / 2/19/98
Drilling Company: Parratt-Wolff
Driller's Name: M. Marshall/J. Percy
Drilling Method: Ingersoll-Rand

Spoon Size: in.

Northing:
Easting:
Well Casing: feet

Borehole Depth: 18 ft.
Ground Surface: feet

Geologist: R.A. Wagner

Piezometer No: PZ-4

Client:
General Electric Company

Location:
Allendale School – Pittsfield, MA
MCP Phase II Investigation

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Piezometer Construction
gs elevation ft											
0										GROUND SURFACE	8-in flush mounted curb box
		NA		NA	NA	NA	NA			Brown-grey SILT, some fine to medium SAND, trace fine Gravel.	Locking pressure fit well cap; Concrete pad; Type I Portland/5% bentonite grout 1.0' to 3.8' bgs
5	-5	NA		NA	NA	NA	NA			Brown SILT, some fine Sand, little coarse Sand and fine Gravel, moist/wet.	Hydrated bentonite chip seal 3.8' to 6.0' bgs; 2-in diameter schedule 40 PVC well casing to 8.0'bgs; Washed silica sand pack (Grade #1) 6.0' to 18.0'bgs
10	-10	NA		NA	NA	NA	NA			Brown SILT and fine SAND, little coarse Sand and fine Gravel, saturated.	2-in diameter, 0.010-in slotted schedule 40 PVC well screen 8.0' to 17.8' bgs
15	-15										

BBL
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Remarks:
NA=Not applicable. bgs=below ground surface.

Saturated Zones

Date / Time	Elevation	Depth

Project: 101.84.200
Script: nbblwell
Date: 08/22/98

Client:
General Electric Company

Location:
Allendale School – Pittsfield, MA
MCP Phase II Investigation

Piezometer No: PZ-4

Total Depth = 18 ft.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Piezometer Construction
0	-5	NA		NA	NA	NA	NA			Brown/grey SILT, some Clay, little medium to coarse Sand and fine Gravel, saturated.	2-in diameter, 0.010-in slotted schedule 40 PVC well screen 8.0' to 17.8' bgs
										Bottom of boring 18.0' bgs.	Schedule 40 PVC sump 17.8' to 18.0' bgs
20	-20										
25	-25										
30	-30										
35	-35										

BBL
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Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Attachment B

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Analytical Data Validation Summary

ATTACHMENT B

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

ADDENDUM TO THE MCP SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

ANALYTICAL DATA VALIDATION SUMMARY

1. Introduction

This Attachment addresses analytical data quality for samples collected during implementation of investigations conducted at the Allendale School Property in Pittsfield, Massachusetts pursuant to or following the conditional approval issued by the Massachusetts Department of Environmental Protection (MDEP) on December 24, 1997 for GE's *MCP Supplemental Phase II Report for the Allendale School Property* (Dated August 1997). Sample collection activities performed as part of those investigations were conducted by Blasland, Bouck & Lee, Inc. (BBL) from February 17, 1998 to March 16, 1998. These investigations included the collection of soil and groundwater samples for the analysis of various constituents listed in 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (hereafter referred to as Appendix IX+3). These constituents include polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, herbicides, polychlorinated dibenzo-p-dioxins (PCDDs), polychlorinated dibenzofurans (PCDFs), and inorganic parameters. Sample analyses for PCBs, VOCs, SVOCs, pesticides, herbicides, and inorganic parameters were provided by Quanterra Environmental Services of Pittsburgh, Pennsylvania. PCDD/PCDF analyses were provided by Quanterra Environmental Services of West Sacramento, California.

This attachment is presented in five sections. The remainder of Section 1 presents the data evaluation procedures and reference documents used during the data review and the analytical methodologies employed for sample analysis. Section 2 describes the data validation procedures used for the Tier I and Tier II evaluations. Section 3 summarizes the results from the Tier I data validation procedures. Section 4 presents a summary of the quality assurance/quality control (QA/QC) parameter deviations and data qualifications that resulted from the Tier II data validation procedures. Finally, Section 5 discusses the overall data quality determined through the analysis of the precision, accuracy, representativeness, completeness, and comparability (PARCC) parameters. The associated analytical summary data sheets are provided in Appendix A.

1.1 Data Evaluation Procedures

The data evaluation process is utilized to determine the capacity of an analytical system to provide useful analytical data. Data evaluation focuses on the analytical methodology performed by the laboratory, but also utilizes elements of the sampling protocol and field procedures to evaluate overall data quality. Accordingly, this report outlines deviations from the applicable quality control criteria specified in the following documents:

- *Sampling and Analysis Plan/Data Collection and Analysis Quality Assurance Plan*, General Electric Company, Pittsfield, Massachusetts, Blasland, Bouck & Lee, Inc., May 1994 (and several subsequent revisions) (referred to herein as "SAP/DCAQAP").

- *Region I Tiered Organic and Inorganic Data Validation Guidelines*, USEPA Region I, July 1, 1993.
- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses*, USEPA Region I, June 13, 1988 (Modified February 1989).
- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, USEPA Region I, February 1, 1988 (Modified November 1, 1988).
- *Evaluation of Metals Data for the Contract Laboratory Program*, USEPA SOP HW-2, Revision 11, January 1992.
- *CLP Organics Data Review and Preliminary Review*, USEPA SOP HW-6, Revision 10, October 1995.
- *National Functional Guidelines for Dioxin/Furan Data Validation*, USEPA, January 1996, and
- *The Analysis of Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans by High Resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS)*, USEPA Method 8290.

The SAP/DCAQAP provides (in Section 5.7.3) that all analytical data will be validated to a Tier I level following the procedures presented in the *Region I Tiered Organic and Inorganic Data Validation Guidelines* (USEPA guidelines), and that approximately 25 percent of the collected data will be validated at the Tier II level following the procedures in those guidelines. Accordingly, 100 percent of the analytical data for these investigations were subjected to Tier I review. The Tier I review consisted of a completeness evidence audit to ensure that all laboratory data and documentation were present.

In addition, in accordance with the SAP/DCAQAP, approximately 25 percent of the data were randomly chosen to be subjected to a Tier II review that consisted of the completeness evidence audit described above plus a review of all data package summary forms for identification of QA/QC parameter deviations. Additionally, all field duplicates were examined for relative percent difference (RPD) compliance with the criteria specified in the SAP/DCAQAP. The Tier II review resulted in the qualification of data for several samples and also required limited review of the instrument output ("raw data") to evaluate the presence of matrix interferences that were observed for several of the samples analyzed for PCDDs/PCDFs.

A tabulated summary of the Tier I and Tier II data evaluations is presented in Table B-1. This table identifies each sample that was subjected to Tier I and Tier II evaluations by Sample Delivery Group number (SDG#), Field Sample ID (Sample ID), and Date Collected, to aid sample identification and tracking. Each sample subjected to evaluation is listed in Table B-1 at least once to document that data review was performed and which level of data evaluation (Tier I or Tier II) was applied. Samples that required data qualification are listed separately for each parameter (compound or analyte) that required qualification. Samples that are listed multiple times exhibited QA/QC deviations for more than one parameter or were subject to multiple QA/QC deviations for the same parameter. For QA/QC parameter deviations, Table B-1 presents the QA/QC parameter that was exceeded, the value of the exceedence, the control limit(s) that were exceeded, and the qualified sample results. A notes column is also included to present additional sample information that may be required to fully document the data review procedures.

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

U The compound or analyte was analyzed for, but was not detected. The sample quantitation limit is presented and adjusted for dilution and (for solid samples only) percent moisture.

J The compound or analyte was positively identified, but the associated numerical value is an estimated concentration. This qualifier is used when the data evaluation procedure identifies a deficiency in the data generation process. This qualifier is also used when a compound or analyte is detected at estimated concentrations less than the contract-required detection limit (CRDL) for inorganic analyses or the contract-required quantitation limit (CRQL) for organic analyses.

UJ The compound or analyte was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual level of quantitation.

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

1.2 Analytical Methods

Sample analyses for PCBs, VOCs, SVOCs, pesticides, herbicides, and inorganic parameters were provided by Quanterra Environmental Services of Pittsburgh, Pennsylvania. PCDD/PCDF analyses were provided by Quanterra Environmental Services of West Sacramento, California. Samples were subject to the following analytical procedures:

Parameter	Analytical Method	Reference
Volatile Organics	8260	1
Semivolatile Organics	8270B	1
PCBs/Pesticides	8081/8082	1
Herbicides	8151	1
PCDDs/PCDFs	8290	1
Inorganics	6010A	1
Mercury	7471A	1
Cyanide	9012	1
Sulfide	9030A	1
Percent Solids	160.3	2

Analytical Method References

1. *Test Methods for Evaluating Solid Waste*: Physical/Chemical Methods, SW-846, 3rd Edition, USEPA, November 1986 and subsequent revisions.

2. *Methods for Chemical Analysis of Water and Wastes*, USEPA, EPA 600/4-79-020, March 1979 and subsequent revisions.

2. Data Validation Procedures

2.1 Tier I Data Validation Procedures

The Tier I evaluation of the data followed the procedures outlined in the *USEPA Region I CSF Completeness Evidence Audit Program* (USEPA Region I, 7/3/91). The Tier I evaluation consists of ensuring that all laboratory data and documentation are present. In accordance with the Tier I completeness evidence audit, the presence of the following data package information was verified:

1. Case Narrative
2. Chain-of-Custody forms
3. Traffic reports
4. QA Sample summary forms
5. Instrument calibration summary forms
6. Instrument run logs
7. Sample preparation logs
8. Instrument/Method detection limits
9. Standards preparation logs
10. Supporting (raw) data

2.2 Tier II Data Validation Procedures

Evaluation of data under the Tier II data validation procedure followed the requirements presented in the SAP/DCAQAP and the tiered validation procedures outlined in the USEPA data validation guidelines. The data packages were reviewed in accordance with USEPA Region I procedures or with validation guidance presented in Section 1. Following these procedures, summary forms related to the following parameters were reviewed for compliance with established QA/QC criteria.

2.2.1 Inorganics Analyses

Metals Analyses

1. Result Summary Forms
2. Technical Holding Times
3. Calibration
4. Blank Analysis
5. Inductively Coupled Plasma (ICP) Interference Check Sample (ICS)
6. Laboratory Control Sample (LCS)
7. Duplicate Sample
8. Matrix Spike Sample Analysis
9. ICP Serial Dilution
10. Field Blanks

Cyanide and Sulfide Analyses

1. Result Summary Forms
2. Technical Holding Times
3. Calibration
4. Blank Analysis
5. Laboratory Control Sample (LCS)
6. Duplicate Sample

7. Matrix Spike Sample Analysis
8. Field Blanks

2.2.2 Organics Analyses

Volatile and Semivolatile Analyses

1. Result Summary Forms
2. Technical Holding Times
3. Gas Chromatography/Mass Spectrometry (GC/MS) Instrument Performance Check
4. Initial Calibration
5. Continuing Calibration
6. Blank Analysis
7. System Monitoring Compounds (Surrogate Spikes)
8. Matrix Spike/Matrix Spike Duplicates
9. Internal Standards
10. Field Blanks

PCBs and Pesticides Analyses

1. Result Summary Forms
2. Technical Holding Times
3. Instrument Performance
4. Retention Time Windows
5. Decachlorobiphenyl (DCBP) Retention Time Shift
6. Endrin/DDT Degradation (Pesticides only)
7. Chromatographic Resolution
8. Initial Calibration
9. Analytical Sequence
10. Continuing Calibration
11. Blank Analysis
12. System Monitoring Compounds (Surrogate Spikes)
13. Matrix Spike/Matrix Spike Duplicates
14. Field Blanks

Herbicides Analyses

1. Result Summary Forms
2. Technical Holding Times
3. Instrument Performance
4. Retention Time Windows
5. Decachlorobiphenyl (DCBP) Retention Time Shift
6. Chromatographic Resolution
7. Initial Calibration
8. Analytical Sequence
9. Continuing Calibration
10. Blank Analysis
11. System Monitoring Compounds (Surrogate Spikes)
12. Matrix Spike/Matrix Spike Duplicates
13. Field Blanks

PCDD/PCDF Analyses

1. Result Summary Forms
2. Technical Holding Times
3. GC/MS Instrument Performance Check
4. Initial Calibration
5. Continuing Calibration
6. Blank Analysis
7. System Monitoring Compounds (Surrogate Spikes)
8. Matrix Spike/Matrix Spike Duplicates
9. Internal Standards
10. Ion Abundance Ratios
11. Signal to Noise Ratios
12. Field Blanks

3. Tier I Data Validation Summary

This section summarizes the results from the Tier I data validation procedures outlined in Section 2.1 of this Attachment. A total of 447 samples (including field duplicates, rinse blanks, and trip blanks) were collected and analyzed for various constituents, including 164 for PCBs, 49 for VOCs, 39 for SVOCs, 39 for pesticides, 39 for herbicides, 39 for PCDDs/PCDFs, 39 for metals, and 39 for cyanide/sulfide. A tabulated summary of the samples subjected to Tier I and Tier II data evaluations is presented below, and a detailed tabulation of the data validation results is presented in Table B-1.

Summary of samples subjected to Tier I and Tier II data validation.

	Tier I Only			Tier II			
Parameter	Samples	Duplicates	Blanks	Samples	Duplicates	Blanks	Total
PCBs	103	7	2	47	5	0	164
VOCs	22	1	4	20	2	0	49
SVOCs	22	1	1	13	2	0	39
Pesticides	22	1	1	13	2	0	39
Herbicides	22	1	1	13	2	0	39
PCDDs/PCDFs	22	1	1	13	2	0	39
Metals	22	1	1	13	2	0	39
Cyanide/Sulfide	22	1	1	13	2	0	39
Total	257	14	12	145	19	0	447

During the Tier I data validation procedures, missing reports and data packages were requested from the laboratory in order to procure complete documentation for each of the collected samples. Following receipt of the requested information, it was determined that the data packages were complete.

4. Tier II Data Validation Summary

This section summarizes deviations from established protocols for the QA QC parameters presented in Section 2.2 of this report. The data associated with a QA/QC parameter deviation were qualified in accordance with the procedures outlined in the USEPA Region I data validation guidance documents. When the data validation process identified several quality control deficiencies, the cumulative effect of the various deficiencies was employed in assigning the final data qualifier. A summary of the QA/QC parameter deviations that resulted in data qualification is presented below for each analytical method.

Approximately 25 percent of the data were randomly chosen to be subjected to a Tier II review that consisted of a review of all data package summary forms for identification of QA/QC deviations. The Tier II review resulted in the qualification of data for several samples and also required limited review of the instrument output ("raw data") to evaluate the presence of matrix interferences that were observed for several of the samples analyzed for PCDDs/PCDFs. Additionally, all field duplicates were examined for RPD compliance with the criteria specified in the SAP/DCAQAP.

4.1 Inorganics Analyses

The following QA/QC parameters were found to be within acceptable limits for all inorganics analyses: Technical Holding Times, Calibration, ICP Interference Check Sample, Duplicate Sample, Matrix Spike/ Matrix Spike Duplicate Samples, Field Duplicates, ICP Serial Dilution, and Field Blanks. Summaries of QA/QC parameter deviations and the Overall Data Assessment are presented below.

4.1.1 Method Blank

Blank action levels for inorganic analytes detected in the blanks were calculated at five times the blank concentrations, adjusted for moisture content in each of the soil samples associated with that blank sample. Detected sample results that were greater than the instrument detection limit (IDL) and less than the blank action level were qualified with a "U". The "U" qualifier indicates that the inorganic analyte was not detected above the reported quantitation limit. Only one such analyte (mercury) was detected in method blanks and this resulted in qualification of sample data, as shown below, along with the number of affected samples. The specific samples involved, the method blank criteria that were exceeded for the analyte listed below, and the qualification of the affected samples are presented in Table B-1.

Analyte for which sample results were qualified due to method blank deviations.

Analyte	Method Blank Concentration (ppm)	Number of Affected Samples	Qualification
Mercury	0.020	10	U

4.1.2 Laboratory Control Sample

Laboratory control samples were analyzed to evaluate the efficiency of the digestion procedure. The percent recovery (%R) of the analyte is required to be between 80 and 120 percent. Non-detected sample results with %R between 50 to 79 percent are qualified as non-detect with an approximated detection limit (UJ). Only one such analyte (antimony) was qualified due to laboratory control sample deviations, as shown below. The specific samples affected, the specific calibration criteria that were

exceeded for the analyte listed below, and the qualification of the affected samples are presented in Table B-1.

Samples qualified due to laboratory control sample deviations.

Analyte	Laboratory Control Sample %R	Number of Affected Samples	Qualification
Antimony	68	11	UJ

4.1.3 Overall Data Assessment

Overall, the inorganics analyses were performed in accordance with the requirements specified in the methods listed in Section 1.3. Based on USEPA Region I data validation guidelines, these data have been determined to be usable for qualitative and quantitative purposes. Minor deviations that resulted in the qualification of data were observed for method blanks and laboratory control samples.

4.2 Cyanide and Sulfide Analysis

The QA/QC parameters presented in Section 2.1 of this report were found to be within acceptable limits for all Cyanide and Sulfide analyses. Therefore, qualification of sample data was not required, and based on USEPA Region I data validation guidelines, these data have been determined to be usable for qualitative and quantitative purposes.

4.3 VOCs Analysis

The following QA/QC parameters were found to be within acceptable limits for all VOC analyses: Technical Holding Times, GC/MS Instrument Performance Checks, Blank Analysis, System Monitoring Compounds, Matrix Spike/Matrix Spike Duplicates, internal standards (surrogate recovery), Field Duplicates, and Field Blanks. Summaries of QA/QC parameter deviations and the Overall Data Assessment are presented below.

4.3.1 Initial Calibration Relative Response Factor

Volatile organics initial calibration criteria require that the average relative response factor (RRF) have a minimum value of 0.05. Non-detected sample results were qualified as rejected (R) for compounds that exceeded this criteria. Volatile compounds that exceeded initial calibration criteria and the number of samples qualified due to that exceedence are identified below. The samples affected, the calibration criteria that were exceeded for the compounds listed below, and the qualification of the affected samples are presented in Table B-1.

VOCs for which sample results were qualified due to initial calibration deviations.

Compound	RRF	Number of Affected Samples	Qualification
Isobutanol	0.011 0.001	18 4	R
Trans-1,4-dichloro-2-butene	0.027 0.019	18 4	R
1,4-Dioxane	0.001	22	R

VOCs for which sample results were qualified due to initial calibration deviations.

Compound	RRF	Number of Affected Samples	Qualification
Acrolein	0.033 0.035	18 4	R
Acetonitrile	0.024 0.022	18 4	R
Propionitrile	0.021 0.020	18 4	R

The rejection of sample data for select VOCs due to low calibration response factors is an inherent problem with the current analytical methodology. Several of the VOCs (including isobutanol, trans-1,4-dichloro-2-butene, 1,4-dioxane, acrolein, acetonitrile, and propionitrile) exhibit instrument response factors that are below the USEPA Region I minimum value of 0.05, but are within method criteria because the analytical method does not specify minimum response factors for these compounds. Additional sampling and reanalysis of these compounds is not recommended because these compounds are not constituents of concern for this investigation, and subsequent reanalyses would also be subject to the same analytical performance limitations.

4.3.2 Continuing Calibration Percent Difference

Continuing calibration criteria require that the percent difference (%D) between the initial calibration RRF and the daily RRF be less than 25 percent. Qualification of sample results when these criteria were exceeded included the approximation of data for detected volatile compounds with %D values greater than 25 percent and for non-detected compounds with %D values greater than 50 percent. Only one such compound was qualified due to continuing calibration deviations, as identified below. The specific samples affected, the specific calibration criteria that were exceeded for the compound listed below, and the qualification of the affected samples are presented in Table B-1.

Compound for which sample results were qualified due to continuing calibration deviations.

Compound	%D	Number of Affected Samples	Qualification
Dichlorodifluoromethane	59 57.2	5 13	UJ

4.3.3 Overall Data Assessment

Overall, the laboratory performed VOC analyses in accordance with the requirements specified in the methods listed in Section 1.3. Qualification of data included rejection of analyses for 1,4-dioxane, trans-1,4-dichloro-2-butene, acetonitrile, acrolein, isobutanol, and propionitrile due to initial calibration deviations. Based on USEPA Region I data validation guidelines, the remaining data have been determined to be usable for qualitative and quantitative purposes. Minor deviations that resulted in the qualification of data were observed for continuing calibration.

4.4 SVOCs Analysis

The following QA/QC parameters were found to be within acceptable limits for all SVOC analyses: Technical Holding Times, GC/MS Instrument Performance Check, Continuing Calibration, Blank Analysis, Matrix Spike/Matrix Spike Duplicates, system monitoring compounds, Field Duplicates, and Field Blanks. Summaries of QA/QC parameter deviations and the Overall Data Assessment are presented below.

4.4.1 Initial Calibration Percent Relative Standard Deviation

Semivolatile organics initial calibration criteria require that the percent relative standard deviation (%RSD) must be less than or equal to 30 percent. Sample results were qualified as estimated (J, UJ) when this criteria was exceeded. Only one semivolatile compound was qualified due to %RSD deviations, as shown below. The specific samples affected, the specific calibration criteria that were exceeded for the compound listed below, and the qualification of the affected samples are presented in Table B-1.

Compound for which sample results were qualified due to %RSD deviations.

Compound	% RSD	Number of Affected Samples	Qualification
4-Nitrophenol	58.8	4	UJ

4.4.2 Overall Data Assessment

Overall, the laboratory performed SVOC analyses in accordance with the requirements specified in the methods listed in Section 1.3. Minor deviations that resulted in the qualification of data were observed for initial calibration. These data have been determined to be usable for qualitative and quantitative purposes based on USEPA Region I data validation guidelines.

4.5 PCBs Analysis

The following QA/QC parameters were found to be within acceptable limits for all PCB analyses: Technical Holding Times, GC/MS Instrument Performance Check, DCBP Retention Time Shift, Endrin/DDT Degradation, Initial Calibration, Continuing Calibration, Blanks, Matrix Spike/Matrix Spike Duplicates, Surrogate Recoveries, and Field Blanks. Summaries of QA/QC parameter deviations and the Overall Data Assessment are presented below.

4.5.1 Field Duplicates

Field duplicates were analyzed to evaluate the overall precision of laboratory and field procedures. The relative percent difference (RPD) between duplicate samples in a soil matrix is required to be less than 50 percent for soil sample values greater than five times the contract-required detection limit (CRDL), and within two times the CRDL for soil sample values less than five times the CRDL. Detected sample results for analytes that exceed these limits are qualified as approximated (J). Non-detected sample results for analytes in which the duplicate value is greater than two times the CRDL are qualified as non-detected with an estimated detection limit (UJ). The specific samples affected, the specific criteria that was exceeded for the compounds listed below, and the qualification of the affected samples are presented in Table B-1.

Compounds for which sample results were qualified due to field duplicate deviations (RPD).

Compound	RPD	Number of Affected Samples	Qualification
Aroclor 1254	> 200	4	J, UJ
	71	2	J
Aroclor 1260	> 200	2	J, UJ
	193	2	J
	194	2	J
	135	2	J
	67	2	J

4.5.2 Overall Data Assessment

Overall, the laboratory performed PCB analyses in accordance with the requirements specified in the methods listed in Section 1.3. Minor deviations that resulted in the qualification of data were observed for field duplicates. These data have been determined to be usable for qualitative and quantitative purposes based on USEPA Region I data validation guidelines.

4.6 Pesticides Analysis

The following QA/QC parameters were found to be within acceptable limits for all pesticide analyses: Technical Holding Times, GC/MS Instrument Performance Check, DCBP Retention Time Shift, Endrin/DDT Degradation, Initial Calibration, Continuing Calibration, Blanks, Matrix Spike/Matrix Spike Duplicates, Surrogate Recoveries, and Field Blanks. Summaries of QA/QC parameter deviations and the Overall Data Assessment are presented below.

4.6.1 Field Duplicates

Field duplicates were analyzed to evaluate the overall precision of laboratory and field procedures. The relative percent difference (RPD) between duplicate samples in a soil matrix is required to be less than 50 percent for soil sample values greater than five times the CRDL, and within two times the CRDL for soil sample values less than five times the CRDL. Detected sample results for analytes that exceed these limits are qualified as approximated (J). Non-detected sample results for analytes in which the duplicate value is greater than two times the CRDL are qualified as non-detected with an estimated detection limit (UJ). The specific samples affected, the specific criteria that was exceeded for the compounds listed below, and the qualification of the affected samples are presented in Table B-1.

Compounds for which sample results were qualified due to field duplicate deviations (RPD).

Compound	RPD	Number of Affected Samples	Qualification
4,4'-DDE	146	2	J
Dieldrin	> 200	2	J, UJ

4.6.2 Overall Data Assessment

Overall, the laboratory performed pesticide analyses in accordance with the requirements specified in the methods listed in Section 1.3. Minor deviations that resulted in the qualification of data were observed for field duplicates. These data have been determined to be usable for qualitative and quantitative purposes based on USEPA Region I data validation guidelines.

4.7 Herbicides Analysis

The QA/QC parameters presented in Section 2.1 of this report were found to be within acceptable limits for all herbicide analyses. Deviations from established QA/QC requirements that resulted in qualification of sample data were not observed. Therefore, qualification of sample data was not required, and these data have been determined to be usable for qualitative and quantitative purposes based on USEPA Region I data validation guildelines.

4.8 PCDDs/PCDFs Analysis

The following QA/QC parameters were found to be within acceptable limits for all PCDD/PCDF analyses: Technical Holding Times, GC/MS Instrument Performance Check, Initial Calibration, Continuing Calibration, Blank Analysis, System Monitoring Compounds, Matrix Spike/Matrix Spike Duplicates, Internal Standards, Ion Abundance Ratios, Signal-to-noise Ratios, and Field Blanks. Summaries of QA/QC parameter deviations and the Overall Data Assessment are presented below.

4.8.1 Field Duplicates

Field duplicates were analyzed to evaluate the overall precision of laboratory and field procedures. The relative percent difference (RPD) between duplicate samples in a soil matrix is required to be less than 50 percent for soil sample values greater than five times the CRDL, and within two times the CRDL for soil sample values less than five times the CRDL. Detected sample results for analytes that exceed these limits are qualified as approximated (J). Non-detected sample results for analytes in which the duplicate value is greater than two times the CRDL are qualified as non-detected with an estimated detection limit (UJ). The specific samples affected, the specific criteria that was exceeded for the compounds listed below, and the qualification of the affected samples are presented in Table B-1.

Analytes for which sample results were qualified due to field duplicate deviations (RPD).

Compound	RPD	Number of Affected Samples	Qualification
Total Tetrachlorodibenzofuran	62.5	2	J, UJ
Total Pentachlorodibenzofuran	> 200	2	J, UJ
Total Hexachlorodibenzofuran	53 > 200	2 2	J J, UJ
1,2,3,4,7,8-Hexachlorodibenzofuran	> 200	2	J, UJ
1,2,3,6,7,8-Hexachlorodibenzofuran	> 200	2	J, UJ
Total Heptachlorodibenzofuran	> 200	2	J, UJ

Analytes for which sample results were qualified due to field duplicate deviations (RPD).

Compound	RPD	Number of Affected Samples	Qualification
1,2,3,4,6,7,8-Heptachlorodibenzofuran	> 200	2	J, UJ
Octachlorodibenzofuran	> 200	2	J, UJ
Total Hexachlorodibenzo-p-dioxin	78	2	J
Octachlorodibenzo-p-dioxin	> 200	2	J, UJ

4.8.2 Diphenyl Ether Interference

Five samples were identified by the laboratory as samples that exhibited matrix interferences caused by the presence of diphenyl ether. Diphenyl ether interferes with the analysis of polychlorinated dibenzofurans by causing an instrument response that is similar to certain congeners. Based on the similarity in instrument response it is possible to record a false detection of specific congeners of PCDDs or PCDFs when diphenyl ether compounds are present in the sample. Due to the presence of diphenyl ether interferences reported by the laboratory, five detected sample results for 2,3,7,8-tetrachlorodibenzofuran and two detected sample results for 1,2,3,6,7,8-hexachlorodibenzofuran were qualified as approximate (J). The specific samples qualified for diphenyl ether interference are presented in Table B-1.

4.8.3 Overall Data Assessment

Overall, the laboratory performed PCDD/PCDF analyses in accordance with the requirements specified in the methods listed in Section 1.3. Minor deviations that resulted in qualification of data were observed field duplicates. These data have been determined to be usable for qualitative and quantitative purposes based on USEPA Region I data validation guidelines.

5. Overall Data Quality Assessment

5.1 General

The QA/QC procedures implemented during sample collection activities were utilized to ensure that the analytical data were of sufficient quality to meet the data quality objectives (DQOs) specified in the SAP/DCAQAP. The DQOs were established at the onset of the investigation to define the precision and accuracy of the analytical data required to support its intended use. To achieve the designated DQOs, specific procedures for field sampling activities, analytical procedures, data reporting, and data validation were established in the SAP/DCAQAP. The SAP/DCAQAP also outlined procedures to evaluate overall data quality through the analysis of the precision, accuracy, representativeness, completeness, and comparability (PARCC) parameters.

The remainder of this section presents an evaluation of the PARCC parameters.

5.2 Data Usability

This section summarizes the analytical data in terms of its completeness and usability for site characterization purposes. Data completeness is defined as the percentage of sample results that have been determined to be usable during the data validation process. Data completeness with respect to usability was calculated separately for inorganic and each of the organic analyses. The percent usability calculation included analyses evaluated under both the Tier I and Tier II data validation reviews. The percent usability calculation did not include quality control samples collected to aid in the evaluation of data usability. Therefore, field/equipment blank, trip blank, and field duplicate data determined to be unusable as a result of the validation process are not represented in the percent usability value tabulated below

Data Usability

Parameter	Percent Usability	Rejected Data
Inorganics	100	None
Cyanide and Sulfide	100	None
Volatile Organics	94.9	Non-detected results for 6 compounds for 20 samples were rejected due to initial calibration deviations.
Semivolatile Organics	100	None
PCBs/Pesticides	100	None
Herbicides	100	None
PCDDs/PCDFs	100	None

5.3 PARCC Parameters

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 SAP/DCAQAP, the overall PARCC parameters determined from the Tier I and Tier II data reviews were utilized 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 DQOs specified in the SAP DCAQAP. Therefore, the following sections present summaries of the PARCC parameters assessment with regard to the Data Quality Assurance Goals specified in the SAP DCAQAP.

5.3.1 Precision

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, it is a quantitative measure of the variability of a group of measurements compared to their average value. For this investigation, precision was defined as the RPD between duplicate sample results. The duplicate samples utilized to evaluate precision included laboratory duplicates, field duplicates, and MS/MSD samples. For this analytical program, 0.315 percent of the data were qualified for field duplicate precision deviations. None of the data required qualification for laboratory duplicate deviations or MS/MSD deviations.

5.3.2 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 of interest. The QA/QC samples used to evaluate analytical accuracy included calibration standards, laboratory control samples, MS/MSD samples, and surrogate compound recoveries. For this analytical program, 0.325 percent were qualified for calibration deviations and laboratory control sample deviations, and none of the data required qualification for MS/MSD recovery deviations or surrogate recovery deviations.

5.3.3 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 following the procedures for sample collection and analyses that were described in the SAP/DCAQAP. Additionally, the analytical program utilized procedures that were consistent with USEPA approved analytical methodology. A QA/QC parameter that is an indicator of the representativeness of a sample is holding time. Holding time criteria are established to maintain the condition of samples before analysis.

5.3.4 Completeness

Completeness is defined as the percentage of measurements made that are judged to be valid or usable to meet the prescribed data quality objectives. 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 program was 98.8 percent.

The rejected sample data for these investigations include a total of 120 sample analysis results for 6 compounds due to initial calibration deviations. Low calibration response factors for these compounds are an inherent problem with the current analytical methodology. Therefore, additional sampling and reanalysis for these compounds is not recommended, since these compounds do not appear to be

constituents of concern for this site, and subsequent reanalyses would also be subject to the same analytical performance limitations.

5.3.5 Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. Sample data should be comparable with other measurement data for similar samples and sample conditions. This goal was achieved through the use of the standardized techniques for sample collection and analysis presented in the SAP/DCAQAP.

TABLE B-1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

ADDENDUM TO MCP SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

ANALYTICAL DATA VALIDATION SUMMARY (1998 DATA SET)
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID (depth interval)	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs											
BBL408	AS-96-80 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-128 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-129 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-130 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-131 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-132 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-133 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-DUP-1	02/17/98	Soil	Tier I	No						Duplicate of AS-98-131 (0-0.5)
BBL450	AS-98-134 (0-0.5)	03/16/98	Soil	Tier I	No						
BBL450	AS-98-134 (0.5-1)	03/16/98	Soil	Tier I	No						
BBL450	AS-98-134 (1-3)	03/16/98	Soil	Tier I	No						
BBL408	ASB-26 (2 - 4)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (4 - 6)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (6 - 8)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (2 - 4)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (4 - 6)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (6 - 8)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (8 - 10)	02/17/98	Soil	Tier I	Yes	Aroclor 1254	Field Duplicate RPD	> 200	< 50	7.0 J	
						Aroclor 1260	Field Duplicate RPD	> 200	< 50	0.80 UJ	
BBL408	ASB-27 DUP	02/17/98	Soil	Tier I	Yes	Aroclor 1254	Field Duplicate RPD	> 200	< 50	0.036 UJ	Duplicate of ASB-27 (8-10)
						Aroclor 1260	Field Duplicate RPD	> 200	< 50	0.21 J	
BBL408	ASB-28 (2 - 4)	02/17/98	Soil	Tier I	No						
BBL408	ASB-28 (4 - 6)	02/17/98	Soil	Tier I	No						
BBL408	ASB-28 (6 - 8)	02/17/98	Soil	Tier I	No						
BBL408	ASB-28 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL421	ASB-35 (0 - 0.5)	02/25/98	Soil	Tier I	No						
BBL421	ASB-35 (0.5 - 1)	02/25/98	Soil	Tier I	Yes	Aroclor 1260	Field Duplicate RPD	193	< 50	0.048 J	
BBL421	ASB-DUP-1	02/25/98	Soil	Tier I	Yes	Aroclor 1260	Field Duplicate RPD	193	< 50	2.8 J	Duplicate of ASB-35 (0.5-1)
BBL421	ASB-35 (1 - 3)	02/25/98	Soil	Tier I	No						
BBL421	ASB-36 (0 - 0.5)	02/25/98	Soil	Tier I	No						
BBL421	ASB-36 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL421	ASB-36 (1 - 3)	02/25/98	Soil	Tier I	No						
BBL421	ASB-37 (0 - 0.5)	02/25/98	Soil	Tier I	No						
BBL421	ASB-37 (0.5 - 1)	02/25/98	Soil	Tier I	Yes	Aroclor 1260	Field Duplicate RPD	194	< 50	4.1 J	
BBL421	ASB-DUP-2	02/25/98	Soil	Tier I	Yes	Aroclor 1260	Field Duplicate RPD	194	< 50	0.059 J	Duplicate of ASB-37 (0.5-1)

TABLE B-1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

ADDENDUM TO MCP SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

ANALYTICAL DATA VALIDATION SUMMARY (1998 DATA SET)
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID (depth interval)	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs (continued)											
BBL421	ASB-37 (1 - 3)	02/25/98	Soil	Tier I	No						
BBL421	ASB-38 (0 - 0.5)	02/25/98	Soil	Tier I	No						
BBL421	ASB-38 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL421	ASB-DUP-3	02/25/98	Soil	Tier I	No						Duplicate of ASB-38 (0.5-1)
BBL421	ASB-38 (1 - 3)	02/25/98	Soil	Tier I	No						
BBL421	ASB-39 (0 - 0.5)	02/25/98	Soil	Tier I	No						
BBL421	ASB-39 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL421	ASB-39 (1 - 3)	02/25/98	Soil	Tier I	No						
BBL421	ASB-40 (0 - 0.5)	02/25/98	Soil	Tier I	No						
BBL421	ASB-40 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL421	ASB-40 (1 - 3)	02/25/98	Soil	Tier I	No						
BBL421	ASB-41 (0 - 0.5)	02/25/98	Soil	Tier I	No						
BBL421	ASB-41 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL421	ASB-41 (1 - 3)	02/25/98	Soil	Tier I	No						
BBL421	ASB-42 (0 - 0.5)	02/25/98	Soil	Tier I	No						
BBL421	ASB-42 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL421	ASB-42 (1 - 3)	02/25/98	Soil	Tier I	No						
BBL421	ASB-43 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL421	ASB-43 (1 - 3)	02/25/98	Soil	Tier I	No						
BBL421	ASB-43 (0 - 0.5)	02/25/98	Soil	Tier I	No						
BBL421	ASB-44 (0 - 0.5)	02/25/98	Soil	Tier I	No						
BBL421	ASB-44 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL421	ASB-44 (1 - 3)	02/25/98	Soil	Tier I	No						
BBL421	ASB-45 (0 - 0.5)	02/25/98	Soil	Tier I	No						
BBL421	ASB-45 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL421	ASB-45 (1 - 3)	02/25/98	Soil	Tier I	No						
BBL421	ASB-46 (0 - 0.5)	02/25/98	Soil	Tier I	No						
BBL421	ASB-46 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL421	ASB-46 (1 - 3)	02/25/98	Soil	Tier I	No						
BBL421	ASB-47 (0 - 0.5)	02/25/98	Soil	Tier I	No						
BBL421	ASB-47 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL421	ASB-47 (1 - 3)	02/25/98	Soil	Tier I	No						
BBL421	ASB-48 (0 - 0.5)	02/25/98	Soil	Tier I	No						
BBL421	ASB-48 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL421	ASB-48 (1 - 3)	02/25/98	Soil	Tier I	No						
BBL421	ASB-49 (0 - 0.5)	02/25/98	Soil	Tier I	No						

TABLE B-1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

ADDENDUM TO MCP SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

ANALYTICAL DATA VALIDATION SUMMARY (1998 DATA SET)
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID (depth interval)	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs (continued)											
BBL421	ASB-49 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL421	ASB-49 (1 - 3)	02/25/98	Soil	Tier I	No						
BBL421	ASB-50 (0 - 0.5)	02/25/98	Soil	Tier I	No						
BBL421	ASB-50 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL421	ASB-50 (1 - 3)	02/25/98	Soil	Tier I	No						
BBL450	ASB-51 (0 - 0.5)	03/16/98	Soil	Tier I	No						
BBL450	ASB-51 (0.5 - 1)	03/16/98	Soil	Tier I	No						
BBL450	ASB-51 (1 - 3)	03/16/98	Soil	Tier I	Yes	Aroclor 1254	Field Duplicate RPD	71	< 50	5.7 J	
						Aroclor 1260	Field Duplicate RPD	67	< 50	14.0 J	
BBL450	ASB-DUP-1	03/16/98	Soil	Tier I	Yes	Aroclor 1254	Field Duplicate RPD	71	< 50	12.0 J	Duplicate of ASB-51 (1-3)
						Aroclor 1260	Field Duplicate RPD	67	< 50	28.0 J	Duplicate of ASB-51 (1-3)
BBL450	ASB-52 (1-3)	03/16/98	Soil	Tier I	No						
BBL450	ASB-52 (3-5)	03/16/98	Soil	Tier I	No						
BBL450	ASB-52 (5-7)	03/16/98	Soil	Tier I	No						
BBL450	ASB-52 (7-9)	03/16/98	Soil	Tier I	No						
BBL450	ASB-52 (9-11)	03/16/98	Soil	Tier I	No						
BBL450	ASB-53 (1-3)	03/16/98	Soil	Tier I	No						
BBL450	ASB-54 (1-3)	03/16/98	Soil	Tier I	No						
BBL450	ASB-55 (3-5)	03/16/98	Soil	Tier I	No						
BBL450	ASB-55 (5-7)	03/16/98	Soil	Tier I	No						
BBL450	ASB-55 (7-9)	03/16/98	Soil	Tier I	No						
BBL450	ASB-56 (1-3)	03/16/98	Soil	Tier I	No						
BBL450	ASB-57 (1-3)	03/16/98	Soil	Tier I	Yes	Aroclor 1254	Field Duplicate RPD	> 200	< 50	0.048 UJ	
BBL450	ASB-DUP-2	03/16/98	Soil	Tier I	Yes	Aroclor 1254	Field Duplicate RPD	> 200	< 50	0.110 J	Duplicate of ASB-57 (1-3)
BBL450	ASB-58 (1-3)	03/16/98	Soil	Tier I	No						
BBL450	ASB-59 (1-3)	03/16/98	Soil	Tier I	No						
BBL450	ASB-60 (1-3)	03/16/98	Soil	Tier I	No						
BBL450	ASB-61 (1-3)	03/16/98	Soil	Tier I	No						
BBL420	K11-7-28-SS-1 (0 - 0.5)	02/23/98	Soil	Tier I	No						
BBL420	K11-7-28-SS-1 (0.5 - 1)	02/23/98	Soil	Tier I	No						
BBL420	K11-7-28-SS-2 (0 - 0.5)	02/23/98	Soil	Tier I	No						
BBL420	K11-7-28-SS-2 (0.5 - 1)	02/23/98	Soil	Tier I	No						
BBL439	SCH-RB-1	03/05/98	Water	Tier I	No						
BBL439	SCH-1	03/05/98	Water	Tier I	No						
BBL439	SCH-2	03/05/98	Water	Tier I	No						
BBL437	PZ-2	03/04/98	Water	Tier I	No						
BBL437	PZ-3	03/04/98	Water	Tier I	No						
BBL437	PZ-4	03/04/98	Water	Tier I	No						

TABLE B-1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

ADDENDUM TO MCP SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

ANALYTICAL DATA VALIDATION SUMMARY (1998 DATA SET)
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID (depth interval)	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs (continued)											
BBL439	SCH-RB-1 Filtered	03/05/98	Water	Tier I	No						
BBL439	SCH-1 Filtered	03/05/98	Water	Tier I	No						
BBL439	SCH-2 Filtered	03/05/98	Water	Tier I	No						
BBL437	PZ-2 Filtered	03/04/98	Water	Tier I	No						
BBL437	PZ-3 Filtered	03/04/98	Water	Tier I	No						
BBL437	PZ-4 Filtered	03/04/98	Water	Tier I	No						
BBL412	ASB-23 (1 -3)	02/19/98	Soil	Tier II	No						
BBL412	ASB-23 (3 - 5)	02/19/98	Soil	Tier II	No						
BBL412	ASB-23 (5 - 7)	02/19/98	Soil	Tier II	No						
BBL412	ASB-24 (0 -0.5)	02/19/98	Soil	Tier II	No						
BBL412	ASB-24 (0.5 - 1)	02/19/98	Soil	Tier II	No						
BBL412	ASB-24 (1 -3)	02/19/98	Soil	Tier II	No						
BBL412	ASB-24 (3 - 5)	02/19/98	Soil	Tier II	No						
BBL412	ASB-24 (5 - 7)	02/19/98	Soil	Tier II	No						
BBL412	ASB-25 (0 -0.5)	02/19/98	Soil	Tier II	No						
BBL412	ASB-25 (0.5 - 1)	02/19/98	Soil	Tier II	No						
BBL412	ASB-25 (1 -3)	02/19/98	Soil	Tier II	No						
BBL412	ASB-25 (3 - 5)	02/19/98	Soil	Tier II	No						
BBL412	ASB-25 DUP	02/19/98	Soil	Tier II	No						Duplicate of ASB-25 (3-5)
BBL412	ASB-25 (5 - 7)	02/19/98	Soil	Tier II	No						
BBL412	ASB-25 DUP	02/19/98	Soil	Tier II	No						Duplicate of ASB-25 (5-7)
BBL410	ASB-29 (2 - 4)	02/18/98	Soil	Tier II	No						
BBL410	ASB-29 (4 - 6)	02/18/98	Soil	Tier II	No						
BBL410	ASB-29 (6 - 8)	02/18/98	Soil	Tier II	No						
BBL410	ASB-29 (8 - 10)	02/18/98	Soil	Tier II	No						
BBL410	ASB-29 (10 - 12)	02/18/98	Soil	Tier II	No						
BBL410	ASB-30 (2 - 4)	02/18/98	Soil	Tier II	No						
BBL410	ASB-30 (4 - 6)	02/18/98	Soil	Tier II	No						
BBL410	ASB-30 (6 - 8)	02/18/98	Soil	Tier II	No						
BBL410	ASB-30 (8 - 10)	02/18/98	Soil	Tier II	No						
BBL410	ASB-30 (10 - 12)	02/18/98	Soil	Tier II	Yes	Aroclor 1260	Field Duplicate RPD	135	< 50	0.066 J	
BBL410	ASB-30 DUP	02/18/98	Soil	Tier II	Yes	Aroclor 1260	Field Duplicate RPD	135	< 50	0.34 J	Duplicate of ASB-30 (10-12)
BBL410	ASB-31 (2 - 4)	02/18/98	Soil	Tier II	No						
BBL410	ASB-31 (4 - 6)	02/18/98	Soil	Tier II	No						
BBL410	ASB-31 (6 - 8)	02/18/98	Soil	Tier II	No						
BBL410	ASB-31 (8 - 10)	02/18/98	Soil	Tier II	No						

TABLE B-1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

ADDENDUM TO MCP SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

ANALYTICAL DATA VALIDATION SUMMARY (1998 DATA SET)
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID (depth interval)	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs (continued)											
BBL410	ASB-31 (10 - 12)	02/18/98	Soil	Tier II	No						
BBL410	ASB-32 (2 - 4)	02/18/98	Soil	Tier II	No						
BBL410	ASB-32 (4 - 6)	02/18/98	Soil	Tier II	No						
BBL410	ASB-32 (6 - 8)	02/18/98	Soil	Tier II	No						
BBL410	ASB-32 (8 - 10)	02/18/98	Soil	Tier II	No						
BBL410	ASB-33 (2 - 4)	02/18/98	Soil	Tier II	No						
BBL410	ASB-33 (4 - 6)	02/18/98	Soil	Tier II	No						
BBL410	ASB-33 (6 - 8)	02/18/98	Soil	Tier II	No						
BBL410	ASB-33 (8 - 10)	02/18/98	Soil	Tier II	No						
BBL410	ASB-34 (2 - 4)	02/18/98	Soil	Tier II	No						
BBL410	ASB-34 (4 - 6)	02/18/98	Soil	Tier II	No						
BBL410	ASB-34 (6 - 8)	02/18/98	Soil	Tier II	No						
BBL410	ASB-34 (8 - 10)	02/18/98	Soil	Tier II	No						
BBL410	ASB-34 (10 - 12)	02/18/98	Soil	Tier II	No						
BBL435	SCH-3	03/03/98	Water	Tier II	No						
BBL435	SCH-4	03/03/98	Water	Tier II	No						
BBL435	PZ-1	03/03/98	Water	Tier II	No						
BBL435	SCH-DUP-1	03/03/98	Water	Tier II	No						Duplicate of PZ-1
BBL435	SCH-3 Filtered	03/03/98	Water	Tier II	No						
BBL435	SCH-4 Filtered	03/03/98	Water	Tier II	No						
BBL435	PZ-1 Filtered	03/03/98	Water	Tier II	No						
BBL435	SCH-DUP-1 Filtered	03/03/98	Water	Tier II	No						Duplicate of PZ-1 Filtered

TABLE B-1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

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ANALYTICAL DATA VALIDATION SUMMARY (1998 DATA SET)
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID (depth interval)	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Volatile Organics											
BBL408	AS-96-80 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-128 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-129 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-130 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-131 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-132 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-133 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-DUP-1	02/17/98	Soil	Tier I	No						Duplicate of AS-98-131 (0-0.5)
BBL408	ASB-26 (2 - 4)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (4 - 6)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (6 - 8)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (2 - 4)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (4 - 6)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (6 - 8)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL408	ASB-28 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL421	ASB-43 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL439	SCH-1	03/05/98	Water	Tier I	No						
BBL439	SCH-2	03/05/98	Water	Tier I	No						
BBL437	PZ-2	03/04/98	Water	Tier I	No						
BBL437	PZ-3	03/04/98	Water	Tier I	No						
BBL437	PZ-4	03/04/98	Water	Tier I	No						
BBL439	SCH-RB-1	03/05/98	Water	Tier I	No						
BBL412	ASB-23 (5 - 7)	02/19/98	Soil	Tier II	Yes	Isobutanol	ICAL (RRF)	0.011	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.027	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.033	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.024	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.021	> 0.05	R	
						Dichlorodifluoromethane	CCAL (%D)	59.0	< 25	0.0057 UJ	
BBL412	ASB-24 (5 - 7)	02/19/98	Soil	Tier II	Yes	Isobutanol	ICAL (RRF)	0.011	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.027	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.033	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.024	> 0.05	R	

TABLE B-1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

ADDENDUM TO MCP SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

ANALYTICAL DATA VALIDATION SUMMARY (1998 DATA SET)
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID (depth interval)	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Volatile Organics (continued)											
						Propionitrile	ICAL (RRF)	0.021	> 0.05	R	
						Dichlorodifluoromethane	CCAL (%D)	59.0	< 25	0.0054 UJ	
BBL412	ASB-25 (0 -0.5)	02/19/98	Soil	Tier II	Yes	Isobutanol	ICAL (RRF)	0.011	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.027	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.033	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.024	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.021	> 0.05	R	
						Dichlorodifluoromethane	CCAL (%D)	59.0	< 25	0.0055 UJ	
BBL412	ASB-25 (5 - 7)	02/19/98	Soil	Tier II	Yes	Isobutanol	ICAL (RRF)	0.011	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.027	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.033	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.024	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.021	> 0.05	R	
						Dichlorodifluoromethane	CCAL (%D)	59.0	< 25	0.0058 UJ	
BBL412	ASB-DUP-3	02/19/98	Soil	Tier II	Yes	Isobutanol	ICAL (RRF)	0.011	> 0.05	R	Duplicate of ASB-25 (5-7)
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.027	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.033	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.024	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.021	> 0.05	R	
						Dichlorodifluoromethane	CCAL (%D)	59.0	< 25	0.0064 UJ	
BBL410	ASB-29 (2 - 4)	02/18/98	Soil	Tier II	Yes	Isobutanol	ICAL (RRF)	0.011	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.027	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.033	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.024	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.021	> 0.05	R	
						Dichlorodifluoromethane	CCAL (%D)	57.2	< 25	0.0061 UJ	
BBL410	ASB-29 (4 - 6)	02/18/98	Soil	Tier II	Yes	Isobutanol	ICAL (RRF)	0.011	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.027	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.033	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.024	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.021	> 0.05	R	

TABLE B-1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

ADDENDUM TO MCP SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

ANALYTICAL DATA VALIDATION SUMMARY (1998 DATA SET)
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID (depth interval)	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Volatile Organics (continued)											
						Dichlorodifluoromethane	CCAL (%D)	57.2	< 25	0.0057 UJ	
BBL410	ASB-30 (2 - 4)	02/18/98	Soil	Tier II	Yes	Isobutanol	ICAL (RRF)	0.011	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.027	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.033	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.024	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.021	> 0.05	R	
						Dichlorodifluoromethane	CCAL (%D)	57.2	< 25	0.0058 UJ	
BBL410	ASB-30 (10 - 12)	02/18/98	Soil	Tier II	Yes	Isobutanol	ICAL (RRF)	0.011	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.027	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.033	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.024	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.021	> 0.05	R	
						Dichlorodifluoromethane	CCAL (%D)	57.2	< 25	0.0060 UJ	
BBL410	ASB-31 (2 - 4)	02/18/98	Soil	Tier II	Yes	Isobutanol	ICAL (RRF)	0.011	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.027	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.033	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.024	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.021	> 0.05	R	
						Dichlorodifluoromethane	CCAL (%D)	57.2	< 25	0.0059 UJ	
BBL410	ASB-31 (4 - 6)	02/18/98	Soil	Tier II	Yes	Isobutanol	ICAL (RRF)	0.011	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.027	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.033	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.024	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.021	> 0.05	R	
						Dichlorodifluoromethane	CCAL (%D)	57.2	< 25	0.0056 UJ	
BBL410	ASB-31 (6 - 8)	02/18/98	Soil	Tier II	Yes	Isobutanol	ICAL (RRF)	0.011	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.027	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.033	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.024	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.021	> 0.05	R	
						Dichlorodifluoromethane	CCAL (%D)	57.2	< 25	0.0060 UJ	

TABLE B-1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

ADDENDUM TO MCP SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

ANALYTICAL DATA VALIDATION SUMMARY (1998 DATA SET)
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID (depth interval)	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Volatile Organics (continued)											
BBL410	ASB-31 (8 - 10)	02/18/98	Soil	Tier II	Yes	Isobutanol	ICAL (RRF)	0.011	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.027	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.033	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.024	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.021	> 0.05	R	
						Dichlorodifluoromethane	CCAL (%D)	57.2	< 25	0.0060 UJ	
BBL410	ASB-31 (10 - 12)	02/18/98	Soil	Tier II	Yes	Isobutanol	ICAL (RRF)	0.011	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.027	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.033	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.024	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.021	> 0.05	R	
						Dichlorodifluoromethane	CCAL (%D)	57.2	< 25	0.0062 UJ	
BBL410	ASB-32 (8 - 10)	02/18/98	Soil	Tier II	Yes	Isobutanol	ICAL (RRF)	0.011	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.027	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.033	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.024	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.021	> 0.05	R	
						Dichlorodifluoromethane	CCAL (%D)	57.2	< 25	0.0062 UJ	
BBL410	ASB-33 (2 - 4)	02/18/98	Soil	Tier II	Yes	Isobutanol	ICAL (RRF)	0.011	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.027	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.033	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.024	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.021	> 0.05	R	
						Dichlorodifluoromethane	CCAL (%D)	57.2	< 25	0.0064 UJ	
BBL410	ASB-34 (4 - 6)	02/18/98	Soil	Tier II	Yes	Isobutanol	ICAL (RRF)	0.011	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.027	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.033	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.024	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.021	> 0.05	R	
						Dichlorodifluoromethane	CCAL (%D)	57.2	< 25	0.0078 UJ	
BBL410	ASB-34 (6 - 8)	02/18/98	Soil	Tier II	Yes	Isobutanol	ICAL (RRF)	0.011	> 0.05	R	

TABLE B-1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

ADDENDUM TO MCP SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

ANALYTICAL DATA VALIDATION SUMMARY (1998 DATA SET)
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID (depth interval)	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Volatile Organics (continued)											
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.027	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.033	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.024	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.021	> 0.05	R	
						Dichlorodifluoromethane	CCAL (%D)	57.2	< 25	0.0085 UJ	
BBL435	SCH-3	03/03/98	Water	Tier II	Yes	Isobutanol	ICAL (RRF)	0.001	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.019	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.035	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.022	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.020	> 0.05	R	
BBL435	SCH-4	03/03/98	Water	Tier II	Yes	Isobutanol	ICAL (RRF)	0.001	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.019	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.035	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.022	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.020	> 0.05	R	
BBL435	PZ-1	03/03/98	Water	Tier II	Yes	Isobutanol	ICAL (RRF)	0.001	> 0.05	R	
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.019	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.035	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.022	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.020	> 0.05	R	
BBL435	SCH-DUP-1	03/03/98	Water	Tier II	Yes	Isobutanol	ICAL (RRF)	0.001	> 0.05	R	Duplicate of PZ-1
						Trans-1,4-dichloro-2-butene	ICAL (RRF)	0.019	> 0.05	R	
						1,4-Dioxane	ICAL (RRF)	0.001	> 0.05	R	
						Acrolein	ICAL (RRF)	0.035	> 0.05	R	
						Acetonitrile	ICAL (RRF)	0.022	> 0.05	R	
						Propionitrile	ICAL (RRF)	0.020	> 0.05	R	

TABLE B-1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

ADDENDUM TO MCP SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

ANALYTICAL DATA VALIDATION SUMMARY (1998 DATA SET)
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID (depth interval)	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Semivolatile Organics											
BBL408	AS-96-80 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-128 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-129 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-130 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-131 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-132 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-133 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-DUP-1	02/17/98	Soil	Tier I	No						Duplicate of AS-98-131 (0-0.5)
BBL408	ASB-26 (2 - 4)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (4 - 6)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (6 - 8)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (2 - 4)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (4 - 6)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (6 - 8)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL408	ASB-28 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL421	ASB-43 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL439	SCH-1	03/05/98	Water	Tier I	No						
BBL439	SCH-2	03/05/98	Water	Tier I	No						
BBL437	PZ-2	03/04/98	Water	Tier I	No						
BBL437	PZ-3	03/04/98	Water	Tier I	No						
BBL437	PZ-4	03/04/98	Water	Tier I	No						
BBL439	SCH-RB-1	03/05/98	Water	Tier I	No						
BBL412	ASB-23 (5 - 7)	02/19/98	Soil	Tier II	No						
BBL412	ASB-24 (5 - 7)	02/19/98	Soil	Tier II	No						
BBL412	ASB-25 (0 -0.5)	02/19/98	Soil	Tier II	No						
BBL412	ASB-25 (5 - 7)	02/19/98	Soil	Tier II	No						
BBL412	ASB-DUP-3	02/19/98	Soil	Tier II	No						Duplicate of ASB-25 (5-7)
BBL410	ASB-29 (4 - 6)	02/18/98	Soil	Tier II	No						
BBL410	ASB-30 (2 - 4)	02/18/98	Soil	Tier II	No						
BBL410	ASB-31 (4 - 6)	02/18/98	Soil	Tier II	No						
BBL410	ASB-32 (8 - 10)	02/18/98	Soil	Tier II	No						
BBL410	ASB-33 (2 - 4)	02/18/98	Soil	Tier II	No						
BBL410	ASB-34 (6 - 8)	02/18/98	Soil	Tier II	No						
BBL435	SCH-3	03/03/98	Water	Tier II	Yes	4-Nitrophenol	ICAL (%RSD)	58.8	< 30	0.028 UJ	
BBL435	SCH-4	03/03/98	Water	Tier II	Yes	4-Nitrophenol	ICAL (%RSD)	58.8	< 30	0.026 UJ	
BBL435	PZ-1	03/03/98	Water	Tier II	Yes	4-Nitrophenol	ICAL (%RSD)	58.8	< 30	0.026 UJ	
BBL435	SCH-DUP-1	03/03/98	Water	Tier II	Yes	4-Nitrophenol	ICAL (%RSD)	58.8	< 30	0.026 UJ	Duplicate of PZ-1

TABLE B-1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

ADDENDUM TO MCP SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

ANALYTICAL DATA VALIDATION SUMMARY (1998 DATA SET)
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID (depth interval)	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Pesticides											
BBL408	AS-96-80 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-128 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-129 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-130 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-131 (0 - 0.5)	02/17/98	Soil	Tier I	Yes	4,4'-DDE	Field Duplicate RPD	146	< 50	0.018 J	
BBL408	AS-98-DUP-1	02/17/98	Soil	Tier I	Yes	4,4'-DDE	Field Duplicate RPD	146	< 50	0.0028 J	Duplicate of AS-98-131 (0-0.5)
BBL408	AS-98-132 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-133 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (2 - 4)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (4 - 6)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (6 - 8)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (2 - 4)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (4 - 6)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (6 - 8)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL408	ASB-28 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL421	ASB-43 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL439	SCH-1	03/05/98	Water	Tier I	No						
BBL439	SCH-2	03/05/98	Water	Tier I	No						
BBL437	PZ-2	03/04/98	Water	Tier I	No						
BBL437	PZ-3	03/04/98	Water	Tier I	No						
BBL437	PZ-4	03/04/98	Water	Tier I	No						
BBL439	SCH-RB-1	03/05/98	Water	Tier I	No						
BBL412	ASB-23 (5 - 7)	02/19/98	Soil	Tier II	No						
BBL412	ASB-24 (5 - 7)	02/19/98	Soil	Tier II	No						
BBL412	ASB-25 (0 -0.5)	02/19/98	Soil	Tier II	No						
BBL412	ASB-25 (5 - 7)	02/19/98	Soil	Tier II	Yes	Dieldrin	Field Duplicate RPD	> 100	< 50	0.0020 UJ	
BBL412	ASB-DUP-3	02/19/98	Soil	Tier II	Yes	Dieldrin	Field Duplicate RPD	> 100	< 50	0.0093 J	Duplicate of ASB-25 (5-7)
BBL410	ASB-29 (4 - 6)	02/18/98	Soil	Tier II	No						
BBL410	ASB-30 (2 - 4)	02/18/98	Soil	Tier II	No						
BBL410	ASB-31 (4 - 6)	02/18/98	Soil	Tier II	No						
BBL410	ASB-32 (8 - 10)	02/18/98	Soil	Tier II	No						
BBL410	ASB-33 (2 - 4)	02/18/98	Soil	Tier II	No						
BBL410	ASB-34 (6 - 8)	02/18/98	Soil	Tier II	No						
BBL435	SCH-3	03/03/98	Water	Tier II	No						
BBL435	SCH-4	03/03/98	Water	Tier II	No						
BBL435	PZ-1	03/03/98	Water	Tier II	No						
BBL435	SCH-DUP-1	03/03/98	Water	Tier II	No						Duplicate of PZ-1

TABLE B-1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

ADDENDUM TO MCP SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

ANALYTICAL DATA VALIDATION SUMMARY (1998 DATA SET)
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID (depth interval)	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Herbicides											
BBL408	AS-96-80 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-128 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-129 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-130 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-131 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-132 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-133 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-DUP-1	02/17/98	Soil	Tier I	No						Duplicate of AS-98-131 (0-0.5)
BBL408	ASB-26 (2 - 4)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (4 - 6)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (6 - 8)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (2 - 4)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (4 - 6)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (6 - 8)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL408	ASB-28 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL421	ASB-43 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL439	SCH-1	03/05/98	Water	Tier I	No						
BBL439	SCH-2	03/05/98	Water	Tier I	No						
BBL437	PZ-2	03/04/98	Water	Tier I	No						
BBL437	PZ-3	03/04/98	Water	Tier I	No						
BBL437	PZ-4	03/04/98	Water	Tier I	No						
BBL439	SCH-RB-1	03/05/98	Water	Tier I	No						
BBL412	ASB-23 (5 - 7)	02/19/98	Soil	Tier II	No						
BBL412	ASB-24 (5 - 7)	02/19/98	Soil	Tier II	No						
BBL412	ASB-25 (0 -0.5)	02/19/98	Soil	Tier II	No						
BBL412	ASB-25 (5 - 7)	02/19/98	Soil	Tier II	No						
BBL412	ASB-DUP-3	02/19/98	Soil	Tier II	No						Duplicate of ASB-25 (5-7)
BBL410	ASB-29 (4 - 6)	02/18/98	Soil	Tier II	No						
BBL410	ASB-30 (2 - 4)	02/18/98	Soil	Tier II	No						
BBL410	ASB-31 (4 - 6)	02/18/98	Soil	Tier II	No						
BBL410	ASB-32 (8 - 10)	02/18/98	Soil	Tier II	No						
BBL410	ASB-33 (2 - 4)	02/18/98	Soil	Tier II	No						
BBL410	ASB-34 (6 - 8)	02/18/98	Soil	Tier II	No						
BBL435	SCH-3	03/03/98	Water	Tier II	No						
BBL435	SCH-4	03/03/98	Water	Tier II	No						
BBL435	PZ-1	03/03/98	Water	Tier II	No						
BBL435	SCH-DUP-1	03/03/98	Water	Tier II	No						Duplicate of PZ-1

TABLE B-1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

ADDENDUM TO MCP SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

ANALYTICAL DATA VALIDATION SUMMARY (1998 DATA SET)
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID (depth interval)	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Metals											
BBL408	AS-96-80 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-128 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-129 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-130 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-131 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-132 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-133 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-DUP-1	02/17/98	Soil	Tier I	No						Duplicate of AS-98-131 (0-0.5)
BBL408	ASB-26 (2 - 4)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (4 - 6)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (6 - 8)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (2 - 4)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (4 - 6)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (6 - 8)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL408	ASB-28 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL421	ASB-43 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL439	SCH-1	03/05/98	Water	Tier I	No						
BBL439	SCH-2	03/05/98	Water	Tier I	No						
BBL437	PZ-2	03/04/98	Water	Tier I	No						
BBL437	PZ-3	03/04/98	Water	Tier I	No						
BBL437	PZ-4	03/04/98	Water	Tier I	No						
BBL439	SCH-RB-1	03/05/98	Water	Tier I	No						
BBL412	ASB-23 (5 - 7)	02/19/98	Soil	Tier II	Yes	Antimony	LCS %R	68	80 - 120	6.8 UJ	
						Mercury	Method Blank	0.020		0.033 U	
BBL412	ASB-24 (5 - 7)	02/19/98	Soil	Tier II	Yes	Antimony	LCS %R	68	80 - 120	6.5 UJ	
						Mercury	Method Blank	0.020		0.043 U	
BBL412	ASB-25 (0 -0.5)	02/19/98	Soil	Tier II	Yes	Antimony	LCS %R	68	80 - 120	6.6 UJ	
						Mercury	Method Blank	0.020		0.033 U	
BBL412	ASB-25 (5 - 7)	02/19/98	Soil	Tier II	Yes	Antimony	LCS %R	68	80 - 120	6.9 UJ	
						Mercury	Method Blank	0.020		0.036 U	
BBL412	ASB-DUP-3	02/19/98	Soil	Tier II	Yes	Antimony	LCS %R	68	80 - 120	7.7 UJ	Duplicate of ASB-25 (5-7)
						Mercury	Method Blank	0.020		0.052 U	
BBL410	ASB-29 (4 - 6)	02/18/98	Soil	Tier II	Yes	Antimony	LCS %R	68	80 - 120	6.8 UJ	
						Mercury	Method Blank	0.020		0.027 U	

TABLE B-1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

ADDENDUM TO MCP SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

ANALYTICAL DATA VALIDATION SUMMARY (1998 DATA SET)
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID (depth interval)	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Metals (continued)											
BBL410	ASB-30 (2 - 4)	02/18/98	Soil	Tier II	Yes	Antimony	LCS %R	68	80 - 120	7.0 UJ	
BBL410	ASB-31 (4 - 6)	02/18/98	Soil	Tier II	Yes	Antimony	LCS %R	68	80 - 120	6.7 UJ	
						Mercury	Method Blank	0.020		0.044 U	
BBL410	ASB-32 (8 - 10)	02/18/98	Soil	Tier II	Yes	Antimony	LCS %R	68	80 - 120	7.5 UJ	
						Mercury	Method Blank	0.020		0.030 U	
BBL410	ASB-33 (2 - 4)	02/18/98	Soil	Tier II	Yes	Antimony	LCS %R	68	80 - 120	7.6 UJ	
						Mercury	Method Blank	0.020		0.083 U	
BBL410	ASB-34 (6 - 8)	02/18/98	Soil	Tier II	Yes	Antimony	LCS %R	68	80 - 120	10.2 UJ	
						Mercury	Method Blank	0.020		0.044 U	
BBL435	SCH-3	03/03/98	Water	Tier II	No						
BBL435	SCH-4	03/03/98	Water	Tier II	No						
BBL435	PZ-1	03/03/98	Water	Tier II	No						
BBL435	SCH-DUP-1	03/03/98	Water	Tier II	No						Duplicate of PZ-1

TABLE B-1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

ADDENDUM TO MCP SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

ANALYTICAL DATA VALIDATION SUMMARY (1998 DATA SET)
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID (depth interval)	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCDDs/PCDFs											
BBL408	AS-96-80 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-128 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-129 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-130 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-131 (0 - 0.5)	02/17/98	Soil	Tier I	Yes	Total HxCDF	Field Duplicate RPD	53	< 50	0.000050 J	
						Total HxCDD	Field Duplicate RPD	78	< 50	0.000013 J	
BBL408	AS-98-DUP-1	02/17/98	Soil	Tier I	Yes	Total HxCDF	Field Duplicate RPD	53	< 50	0.000029 J	Duplicate of AS-98-131 (0-0.5)
						Total HxCDD	Field Duplicate RPD	78	< 50	0.0000057 J	
BBL408	AS-98-132 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-133 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (2 - 4)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (4 - 6)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (6 - 8)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (2 - 4)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (4 - 6)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (6 - 8)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL408	ASB-28 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL421	ASB-43 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL439	SCH-1	03/05/98	Water	Tier I	No						
BBL439	SCH-2	03/05/98	Water	Tier I	No						
BBL437	PZ-2	03/04/98	Water	Tier I	No						
BBL437	PZ-3	03/04/98	Water	Tier I	No						
BBL437	PZ-4	03/04/98	Water	Tier I	No						
BBL439	SCH-RB-1	03/05/98	Water	Tier I	No						
BBL412	ASB-23 (5 - 7)	02/19/98	Soil	Tier II	No						
BBL412	ASB-24 (5 - 7)	02/19/98	Soil	Tier II	No						
BBL412	ASB-25 (0 -0.5)	02/19/98	Soil	Tier II	No						
BBL412	ASB-25 (5 - 7)	02/19/98	Soil	Tier II	Yes	Total TCDF	Field Duplicate RPD	62.5	<50	0.000011 J	
						Total PeCDF	Field Duplicate RPD	> 200	<50	0.0000020 UJ	
						Total HxCDF	Field Duplicate RPD	> 200	<50	0.0000010 UJ	
						2,3,4,6,7,8-HxCDF	Field Duplicate RPD	> 200	<50	0.00000070 UJ	
						Total HpCDF	Field Duplicate RPD	> 200	<50	0.00000074 UJ	
						OCDD	Field Duplicate RPD	> 200	<50	0.0000043 UJ	

TABLE B-1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

ADDENDUM TO MCP SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

ANALYTICAL DATA VALIDATION SUMMARY (1998 DATA SET)
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID (depth interval)	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCDDs/PCDFs (continued)											
BBL412	ASB-DUP-3	02/19/98	Soil	Tier II	Yes	Total TCDF	Field Duplicate RPD	62.5	<50	0.000021 J	Duplicate of ASB-25 (5-7)
						Total PeCDF	Field Duplicate RPD	> 200	<50	0.000032 J	
						Total HxCDF	Field Duplicate RPD	> 200	<50	0.000067 J	
						2,3,4,6,7,8-HxCDF	Field Duplicate RPD	> 200	<50	0.0000027 J	
						Total HpCDF	Field Duplicate RPD	> 200	<50	0.000016 J	
						OCDD	Field Duplicate RPD	> 200	<50	0.000013 J	
BBL410	ASB-29 (4 - 6)	02/18/98	Soil	Tier II	Yes	2,3,7,8-TCDF	DB-225 confirmation			0.0000013 J	
BBL410	ASB-30 (2 - 4)	02/18/98	Soil	Tier II	Yes	2,3,7,8-TCDF	DB-225 confirmation			0.000012 J	
BBL410	ASB-31 (4 - 6)	02/18/98	Soil	Tier II	Yes	2,3,7,8-TCDF	DB-225 confirmation			0.000017 J	
						1,2,3,6,7,8-HxCDF				0.00925 J	
BBL410	ASB-32 (8 - 10)	02/18/98	Soil	Tier II	No	2,3,7,8-TCDF					
BBL410	ASB-33 (2 - 4)	02/18/98	Soil	Tier II	Yes	2,3,7,8-TCDF	DB-225 confirmation			0.00000063 J	
BBL410	ASB-34 (6 - 8)	02/18/98	Soil	Tier II	Yes	2,3,7,8-TCDF	DB-225 confirmation			0.0000058 J	
						1,2,3,6,7,8-HxCDF				0.0000093 J	
BBL435	SCH-3	03/03/98	Water	Tier II	No						
BBL435	SCH-4	03/03/98	Water	Tier II	No						
BBL435	PZ-1	03/03/98	Water	Tier II	No						
BBL435	SCH-DUP-1	03/03/98	Water	Tier II	No						Duplicate of PZ-1

TABLE B-1

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

ADDENDUM TO MCP SUPPLEMENTAL PHASE II REPORT FOR THE ALLENDALE SCHOOL PROPERTY

ANALYTICAL DATA VALIDATION SUMMARY (1998 DATA SET)
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID (depth interval)	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Sulfide, Cyanide											
BBL408	AS-96-80 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-128 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-129 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-130 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-131 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-132 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-133 (0 - 0.5)	02/17/98	Soil	Tier I	No						
BBL408	AS-98-DUP-1	02/17/98	Soil	Tier I	No						Duplicate of AS-98-131 (0-0.5)
BBL408	ASB-26 (2 - 4)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (4 - 6)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (6 - 8)	02/17/98	Soil	Tier I	No						
BBL408	ASB-26 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (2 - 4)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (4 - 6)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (6 - 8)	02/17/98	Soil	Tier I	No						
BBL408	ASB-27 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL408	ASB-28 (8 - 10)	02/17/98	Soil	Tier I	No						
BBL421	ASB-43 (0.5 - 1)	02/25/98	Soil	Tier I	No						
BBL439	SCH-1	03/05/98	Water	Tier I	No						
BBL439	SCH-2	03/05/98	Water	Tier I	No						
BBL437	PZ-2	03/04/98	Water	Tier I	No						
BBL437	PZ-3	03/04/98	Water	Tier I	No						
BBL437	PZ-4	03/04/98	Water	Tier I	No						
BBL439	SCH-RB-1	03/05/98	Water	Tier I	No						
BBL412	ASB-23 (5 - 7)	02/19/98	Soil	Tier II	No						
BBL412	ASB-24 (5 - 7)	02/19/98	Soil	Tier II	No						
BBL412	ASB-25 (0 -0.5)	02/19/98	Soil	Tier II	No						
BBL412	ASB-25 (5 - 7)	02/19/98	Soil	Tier II	No						
BBL412	ASB-DUP-3	02/19/98	Soil	Tier II	No						Duplicate of ASB-25 (5-7)
BBL410	ASB-29 (4 - 6)	02/18/98	Soil	Tier II	No						
BBL410	ASB-30 (2 - 4)	02/18/98	Soil	Tier II	No						
BBL410	ASB-31 (4 - 6)	02/18/98	Soil	Tier II	No						
BBL410	ASB-32 (8 - 10)	02/18/98	Soil	Tier II	No						
BBL410	ASB-33 (2 - 4)	02/18/98	Soil	Tier II	No						
BBL410	ASB-34 (6 - 8)	02/18/98	Soil	Tier II	No						
BBL435	SCH-3	03/03/98	Water	Tier II	No						
BBL435	SCH-4	03/03/98	Water	Tier II	No						
BBL435	PZ-1	03/03/98	Water	Tier II	No						
BBL435	SCH-DUP-1	03/03/98	Water	Tier II	No						Duplicate of PZ-1