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*Transmitted via Overnight Delivery*

May 13, 2008

Mr. Richard Hull  
USEPA - New England  
One Congress Street, Suite 1100  
Boston, Massachusetts 02114-2023

**Re: GE-Pittsfield/Housatonic River Site  
Former Oxbow Areas J and K (GECD420)  
Final Completion Report for Former Oxbow Areas J and K Removal Action**

Dear Mr. Hull:

Paragraph 88 of the Consent Decree (CD) for the GE-Pittsfield/Housatonic River Site provides for the submittal of a Final Completion Report and issuance of a Certification of Completion following the completion of a Removal Action which satisfies the Performance Standards provided in the CD. The enclosed *Final Completion Report for Former Oxbow Areas J and K Removal Action* (Final Completion Report) demonstrates that the Removal Action for this area required by the CD (excluding Post-Removal Site Control activities) has been completed in full satisfaction of the pertinent requirements of the CD and that the Performance Standards for that Removal Action have been achieved. Therefore, in accordance with Paragraph 88.a of the CD, the General Electric Company (GE) requests that EPA provide a Certification of Completion for the Former Oxbow Areas J and K Removal Action.

Please contact me with any questions or comments regarding the enclosed Final Completion Report.

Sincerely,

*Richard W. Gates /mrB*

Richard W. Gates  
GE Project Coordinator,  
Former Oxbow Areas J and K Removal Action

Enclosure

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Property Owner – Parcel K10-10-33\*\*  
Property Owner – Parcel K10-11-1\*\*  
Property Owner – Parcel K10-11-2\*\*  
Property Owner – Parcel K10-11-3\*\*  
Property Owner – Parcel K10-11-5\*\*  
Property Owner – Parcel K10-12-1\*\*  
Property Owner – Parcel K10-13-1\*\*  
Public Information Repositories  
GE Internal Repository

\* *with compact disk*

\*\* *without enclosure*



**General Electric Company  
Pittsfield, Massachusetts**

**Final Completion Report for  
Former Oxbow Areas J and K  
Removal Action**

May 2008

ARCADIS

**Final Completion Report for  
Former Oxbow Areas J and K  
Removal Action**

General Electric Company  
Pittsfield, Massachusetts

Prepared for:  
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Date:  
May 2008



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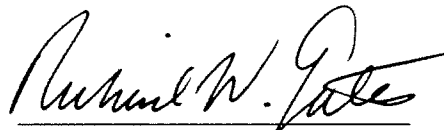
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**Statement and Certification by GE's Project Coordinator**

I am the General Electric Company's (GE's) Project Coordinator for certain activities conducted by GE pursuant to the Consent Decree for the GE-Pittsfield/Housatonic River Site, which was entered by the United States District Court for the District of Massachusetts on October 27, 2000. These activities include the Former Oxbow Areas A and C Removal Action.

As described in this *Final Completion Report for Former Oxbow Areas A and C Removal Action*, the Former Oxbow Areas A and C Removal Action required by the Consent Decree (excluding Post-Removal Site Control activities) has been completed in full satisfaction of the requirements of the Consent Decree relating to that Removal Action.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.




Richard W. Gates  
GE Project Coordinator,  
Former Oxbow Areas A and C  
Removal Action

Date: MAY 7, 2008

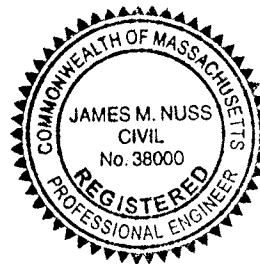
**Statement by Supervising Contractor**

I am a registered Professional Engineer and represent ARCADIS (formerly Blasland, Bouck & Lee, Inc.) as the Supervising Contractor for work conducted by the General Electric Company (GE) pursuant to the Consent Decree for the GE-Pittsfield/Housatonic River Site, which was entered by the United States District Court for the District of Massachusetts on October 27, 2000.

Based on my inquiry of those individuals responsible for preparing this *Final Completion Report for Former Oxbow Areas A and C Removal Action*, the information contained in this report is, to the best of my knowledge and belief, true, accurate, and complete. As summarized in this report, the Former Oxbow Areas A and C Removal Action required by the Consent Decree (excluding Post-Removal Site Control activities) has been completed in full satisfaction of the requirements of the Consent Decree relating to that Removal Action, and the applicable Performance Standards set forth in the Consent Decree have been attained for each of the properties comprising the Former Oxbow Areas A and C Removal Action Area.

  
\_\_\_\_\_  
James M. Nuss, P.E.  
Supervising Contractor  
ARCADIS

Date: May 7, 2008



## 1. Introduction

### 1.1 General

This *Final Completion Report for the Former Oxbow Areas J and K Removal Action* (Final Completion Report) is submitted by the General Electric Company (GE), pursuant to the requirements of Paragraph 88.a of the October 2000 Consent Decree (CD) for the GE-Pittsfield/Housatonic River Site (the Site), to request that the U.S. Environmental Protection Agency (EPA) issue a Certification of Completion for the Former Oxbow Areas J and K Removal Action at the Site. The submittal of this Final Completion Report represents the culmination of efforts by GE to investigate, evaluate, and remediate soils within the properties and areas comprising the Former Oxbow Areas J and K Removal Action Area (RAA). As documented in this Final Completion Report, the necessary response actions required by the CD and accompanying *Statement of Work for Removal Actions Outside the River* (SOW) to address soils at the properties/areas comprising this RAA have been completed, and the applicable soil-related Performance Standards set forth in the CD have been attained for each of those properties/areas. As a result, consistent with the requirements of Paragraph 88.a of the CD, GE and its Supervising Contractor, ARCADIS (formerly Blasland, Bouck & Lee, Inc. [BBL], then ARCADIS BBL), have prepared statements indicating that the Former Oxbow Areas J and K Removal Action has been completed in full satisfaction of the applicable requirements under the CD. Such statements are included in this Final Completion Report.

### 1.2 Site Description

The Former Oxbow Areas J and K RAA encompasses an area of approximately 8.5 acres generally located approximately 2,500 feet upstream of the Newell Street Bridge on the Housatonic River (Figure 1). Certain portions of this area originally consisted of land associated with oxbows and low-lying areas of the Housatonic River. Rechannelization and straightening of the Housatonic River in the early 1940s by the City of Pittsfield and the United States Army Corps of Engineers (USACE) separated several of these oxbows and low-lying areas from the active course of the river. These oxbows and low-lying areas were subsequently filled with various materials from a variety of sources, resulting in the current surface elevations and topography.

Former Oxbow Area J encompasses an area of approximately six acres generally located north of the Housatonic River, south of East Street, and between Fasce and Commercial Streets. This area is somewhat larger than the area originally designated as Former Oxbow Area J in the SOW, due to a modification to the CD and SOW in February 2002 which expanded the RAA to include an adjacent property (Parcel K10-11-5) to the east. This

modification was based on the detection of PCBs and fill material in soil at Parcel K10-11-5 as part of an additional investigation performed by others and unrelated to the CD and SOW (Scalise Associates, 2001).

Former Oxbow Area K encompasses an area of approximately 2.5 acres south of the Housatonic River across from Former Oxbow Area J and generally to the northeast of Ventura Avenue.

As shown on Figure 2, the Former Oxbow Areas J and K RAA is composed of the following 11 non-GE owned properties (along with undeveloped roads and/or road rights-of-way adjacent to some of these properties):

#### **Former Oxbow Area J**

- Parcel K10-13-1;
- Parcel K10-12-1;
- Parcel K10-11-1;
- Parcel K10-11-2;
- Parcel K10-11-3; and
- Parcel K10-11-5.

#### **Former Oxbow Area K**

- Parcel K10-10-3;
- Parcel K10-10-4;
- Parcel K10-10-5;
- Parcel K10-10-6; and
- A portion of Parcel K10-10-33.

Seven of these properties abut the Housatonic River (i.e., Parcels K10-12-1, K10-11-2, K10-11-3, K10-11-5, K10-10-3, K10-10-4, and K10-10-33). In addition, the undeveloped Longview Terrace, Parkside Avenue right-of-way, and Zeno Street right-of-way abut the river. The properties at Former Oxbow Area J are primarily commercial in nature, although certain discontinuous areas within Former Oxbow J are designated in the SOW as recreational areas. The properties at Former Oxbow Area K consist of a combination of residential properties (Parcels K10-10-5 and K10-10-6) and vacant properties considered to be in residential use (Parcels K10-10-3, K10-10-4, and portion of K10-10-33 within the RAA).

As discussed in a document titled *Preliminary Remedial Evaluations and Proposal for Supplemental Pre-Design Investigations* (Preliminary Remedial Evaluation, dated January 28, 2004), based on a detailed survey conducted by GE at Former Oxbow Areas J and K, certain property boundaries reflected in the legal title to certain properties within the RAA, particularly the properties in Former Oxbow Area K that border the Housatonic River, do not match the current property configurations and uses by the owners. As proposed by GE in the Preliminary Remedial Evaluation and approved by EPA in a letter to GE dated March 29, 2004, GE performed Removal Design/Removal Action (RD/RA) evaluations pursuant to the CD and SOW for this RAA based on the property configurations shown on Figure 2. Although these configurations and parcel numbers may not match the title information in some respects, they do reflect current usage by the owners (i.e., the configurations considered by the owners to constitute their properties) and thus were considered more appropriate for determining averaging areas for RD/RA evaluation purposes. In addition, as discussed in the Preliminary Remedial Evaluation and approved by EPA, the recreational areas at Former Oxbow Area J that were designated in the SOW were combined into four larger recreational areas (R1, R2, R3A, and R3B) for the purposes of RD/RA evaluations.

### 1.3 Overview of Response Actions

The activities completed by GE related to Former Oxbow Areas J and K have been consistent with the requirements of the CD and SOW. In summary, these activities included the following:

Sampling and analysis of soils throughout Former Oxbow Areas J and K were conducted to assess the presence of polychlorinated biphenyls (PCBs) and other hazardous constituents listed in Appendix IX of 40 CFR Part 264 (excluding pesticides and herbicides), plus three additional constituents – benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (Appendix IX+3). These activities included sampling conducted prior to the CD, pre-design investigations performed in accordance with the CD and SOW, and additional data collection following GE's initial RD/RA evaluations.



Based on the sampling results, GE performed RD/RA evaluations to determine the need for and scope of remediation to achieve the soil-related Performance Standards in the CD and SOW for each of the properties and other averaging areas within Former Oxbow Areas J and K. GE initially presented the results of the RD/RA evaluations in its *Conceptual Removal Design/Removal Action Work Plan for Former Oxbow Areas J and K* (Conceptual Work Plan; BBL, March 2005), which was conditionally approved by EPA on June 14, 2005. GE subsequently submitted a *Final Removal Design/Removal Action Work Plan for Former Oxbow Areas J and K* (Final Work Plan; BBL, September 2005), which was conditionally approved by EPA on February 23, 2006.

In the meantime, prior to EPA's approval of the Final Work Plan, GE performed an additional review of the available soils data and determined that six non-residential properties within this RAA could potentially achieve the Performance Standards that apply to residential properties with limited additional sampling and, if necessary, remediation. As a result, in November 2005, GE proposed to conduct additional sampling at those properties consistent with the sampling requirements specified in the SOW for residential properties. Following EPA approval, GE conducted such sampling. Based on the sampling results, GE submitted revised RD/RA evaluations for several properties and averaging areas at this RAA in an *Addendum to Final Removal Design/Removal Action Work Plan for Former Oxbow Areas J and K* (Final Work Plan Addendum; BBL, April 2006). In that Addendum, GE proposed to apply the residential Performance Standards to five of the six non-residential properties that had been subject to the additional sampling (i.e., Parcels K10-12-1, K10-11-5, K10-10-3, K10-10-4, and the portion of K10-10-33 within this RAA). The Addendum also presented revised RD/RA evaluations for certain other properties and averaging areas based on the additional sampling data or based on revised configurations of the designated recreational areas resulting from the evaluation of some of the non-residential properties under the residential standards. EPA conditionally approved the Final Work Plan Addendum on June 23, 2006. The final averaging areas used for the RD/RA evaluations at Former Oxbow Areas J and K are shown on Figure 2.

In accordance with the Final Work Plan and Final Work Plan Addendum, remediation activities were conducted between July and November 2006, and included: (1) excavation of approximately 1,955 in-situ cubic yards (cy) of impacted soils; (2) disposal of excavated materials at the appropriate On-Plant Consolidation Areas (OPCAs) located at the GE Pittsfield facility; (3) backfilling of excavations with clean fill; and (4) general site restoration.

For the non-residential properties that did not achieve the residential Performance Standards (Parcels K10-11-1, K10-11-2, K10-11-3, and K10-13-1), none of the property owners had elected to execute Grants of Environmental Restrictions and Easements (EREs) on those properties. Accordingly, in accordance with the CD, GE implemented

Conditional Solutions at those properties. On June 21, 2007, GE provided notices to the owners of those properties that Conditional Solutions had been implemented at their properties. Copies of these notice letters are included in Appendix H. In addition, on July 17, 2007, GE provided notice of these Conditional Solutions to the holders of encumbrances on those properties. Copies of these notice letters are also included in Appendix H.

Finally, a formal Pre-Certification Inspection of Former Oxbow Areas J and K was conducted on April 16, 2008, in accordance with Paragraph 88.a of the CD, and was attended by representatives of EPA, the Massachusetts Department of Environmental Protection (MDEP), and GE. No issues were identified during that inspection of the completed response actions.

Additional information concerning each of the above activities is presented in subsequent sections of this Final Completion Report.

#### **1.4 Scope and Format of Final Completion Report**

The scope of soil investigations, investigation results, RD/RA evaluations, and proposed remediation activities for Former Oxbow Areas J and K have been summarized in various documents submitted to EPA. EPA has provided approval or conditional approval of each such GE submittal. This Final Completion Report provides a general overview of the above-referenced topics and includes references to more detailed reports and other correspondence submitted to EPA. In combination with the materials presented in previous documents submitted to EPA, this Final Completion Report (describing the completed response actions) serves as the basis for GE's conclusion that the applicable soil-related Performance Standards for Former Oxbow Areas J and K have been achieved.

Section 3.6 of the SOW specifies the information to be presented in Final Completion Reports. To satisfy these requirements, the remainder of this Final Completion Report is presented in six sections. The title and a brief overview of each of the subsequent sections are presented below.

**Section 2 – Summary of Completed Investigation Activities**, provides a summary of the pre-design and other soil investigations performed at Former Oxbow Areas J and K, the results of which were used to determine the need for and extent of remediation actions to address PCBs and other Appendix IX+3 constituents at each of the properties/areas comprising this RAA.

**Section 3 – Summary of Applicable Performance Standards and RD/RA Evaluations,** describes the Performance Standards for PCBs and other Appendix IX+3 constituents applicable to the properties/areas within Former Oxbow Areas J and K and provides a brief summary of the RD/RA evaluations performed for these properties/areas.

**Section 4 – Summary of Remediation Activities,** presents a summary of the remediation activities that were performed at Former Oxbow Areas J and K.

**Section 5 – Achievement of Performance Standards,** demonstrates that current (post-remediation) site conditions satisfy the applicable soil-related Performance Standards at each property or other averaging areas comprising Former Oxbow Areas J and K.

**Section 6 – Post RD/RA Activities,** provides a summary of the post-remediation, pre-certification activities performed at the RAA, including property owner notifications relating to Conditional Solutions and the formal Pre-Certification Inspection under the CD.

**Section 7 – Post-Removal Site Control Activities,** sets forth GE's Post-Removal Site Control Plan for these properties, including a discussion of the required periodic inspections and maintenance of restored areas, as well as a discussion of future inspections of properties at which Conditional Solutions have been implemented.

Several appendices are included herein to supplement the contents of this report and related documents previously submitted to EPA. These appendices are primarily related to the implementation of the soil-related response actions and related construction activities.

Finally, it should be noted that this Final Completion Report describes the response actions performed to achieve the soil-related Performance Standards set forth in the CD and SOW. Groundwater at Former Oxbow Areas J and K is being addressed separately as part of GE's groundwater-related activities for the Former Oxbow Areas J and K Groundwater Management Area (GMA 2) pursuant to the CD and SOW.

## 2. Summary of Soil Investigations

GE performed a number of sampling and analysis activities at Former Oxbow Areas J and K as part of pre-design and supplemental soil investigations pursuant to the CD and SOW. In addition, GE considered sampling data from investigations conducted by EPA prior to or not associated with the pre-design investigations, as well as usable data from historical investigations conducted by GE. The data from these investigations were used to characterize existing conditions with respect to PCBs and other Appendix IX+3 constituents and to support the performance of RD/RA evaluations to assess the need for and scope of soil-related remediation actions to achieve the applicable Performance Standards.

As part of the pre-design and RD/RA-related activities under the CD, documents were prepared between June 2002 and July 2006 to: (1) describe the scope of pre-design soil investigations for Former Oxbow Areas J and K; (2) report on the results of those investigations; (3) present evaluations of the need for and scope of remediation actions to satisfy the applicable Performance Standards; and (4) propose remediation actions where necessary and demonstrate that such remediation would achieve applicable Performance Standards under the CD. These documents, along with the corresponding EPA conditional approval letters, are cited below.

- *Pre-Design Investigation Work Plan for the Former Oxbow Areas J and K Removal Action* (PDI Work Plan; BBL, June 2002), conditionally approved by EPA in a letter to GE dated November 19, 2002.
- *Addendum to Pre-Design Investigation Work Plan* (PDI Work Plan Addendum; letter from GE dated January 2, 2003), conditionally approved by EPA in a letter to GE dated January 13, 2003.
- *Pre-Design Investigation Report for the Former Oxbow Areas J and K Removal Action* (PDI Report; BBL, July 2003), conditionally approved by EPA in a letter to GE dated September 29, 2003.
- Preliminary Remedial Evaluation (cited in Section 1 above), conditionally approved by EPA in a letter to GE dated March 29, 2004.
- *Supplemental Pre-Design Investigation Report and Additional Sampling Proposal* (Supplemental PDI Report; letter from GE dated June 28, 2004), conditionally approved by EPA in a letter to GE dated August 26, 2004.

- *Additional Supplemental Pre-Design Investigation Report* (Additional PDI Report; letter from GE dated November 24, 2004), conditionally approved by EPA in a letter to GE dated January 10, 2005.
- Conceptual Work Plan (cited in Section 1 above), conditionally approved by EPA in a letter to GE dated June 14, 2005.
- Final Work Plan (cited in Section 1 above), conditionally approved by EPA in a letter to GE dated February 23, 2006.
- *Supplemental Sampling Plan* (letter from GE dated November 2, 2005), conditionally approved by EPA in a letter to GE dated January 17, 2006.
- *Additional Supplemental Sampling Proposal* (letter from GE dated March 27, 2006), conditionally approved by EPA in a letter to GE dated April 4, 2006.
- Final Work Plan Addendum (cited in Section 1 above), conditionally approved by EPA in a letter to GE dated June 23, 2006.
- *Revision to Addendum to Final Removal Design/Removal Action Work Plan* (letter from GE dated July 6, 2006).

All soil sampling data considered in the RD/RA evaluations for this RAA – including the pre-design and supplemental sampling data collected by GE, the relevant EPA sampling data, and the usable historical GE sampling data – are included in tables in Appendix A, along with a figure showing the soil sampling locations.

### 3. Summary of Applicable Performance Standards and RD/RA Evaluations

#### 3.1 General

This section provides an overview of the applicable Performance Standards established in the CD and SOW for PCBs and non-PCB Appendix IX+3 constituents in soil for Former Oxbow Areas J and K. The Performance Standards for this RAA, which is considered one of the Former Oxbow Areas under the CD and SOW, are set forth in Paragraph 26 of the CD and Section 2.3.2 of the SOW. This section also summarizes the outcome of the RD/RA evaluations conducted by GE to demonstrate and/or achieve compliance with the applicable Performance Standards.

#### 3.2 Performance Standards for PCBs

For Former Oxbow Areas J and K, the applicable Performance Standards related to the presence of PCBs in soil vary depending on the use of the property or area – i.e., whether it is considered residential, commercial/industrial, or recreational – and, for properties that do not meet the residential Performance Standards, on whether an ERE is obtained. Those Performance Standards are summarized as follows:

- For residential properties (or properties evaluated as residential), GE must calculate spatial average PCB concentrations for the 0- to 1-foot and 1- to X-foot depth increments, where X equals the depth to which PCBs were detected (up to a maximum of 15 feet). If the spatial average PCB concentration in the 0- to 1-foot or 1- to X-foot depth increment exceeds 2 ppm, GE must remove and replace soils as necessary to achieve a spatial average PCB concentration at or below 2 ppm in each of those depth increments. In addition, for any averaging area that exceeds 0.25 acre in size, GE must remove all soils in the top foot in unpaved portions that contain PCB concentrations greater than 10 ppm – the “not to exceed” (NTE) level for residential properties.
- For non-GE-owned properties/areas that do not meet the above residential standards, GE must make “best efforts” (as defined in the CD) to obtain EREs; and if an ERE cannot be obtained, GE must implement a Conditional Solution. (At this RAA, as noted above, Conditional Solutions were implemented at all such properties, and hence the Performance Standards described below are those applicable to properties/areas subject to Conditional Solutions.)

- For commercial properties/averaging areas subject to Conditional Solutions, GE must remove/replace soils as necessary to achieve spatial average PCB concentrations of 25 ppm in both the top foot of soil and the top 3 feet of soil and 200 ppm in the 1- to 6-foot depth increment. Further, GE must install an engineered barrier if the remaining spatial average PCB concentration in the 0- to 15-foot depth increment exceeds 100 ppm. Additionally, for any evaluation area that exceeds 0.5 acre in size, GE must remove all soils in the top foot of unpaved areas containing PCB concentrations greater than an NTE level of 125 ppm.
- For recreational properties/averaging areas subject to Conditional Solutions, GE must remove/replace soils as necessary to achieve a spatial average PCB concentration of 10 ppm in both the top foot and top three feet of soil. Further, GE must install an engineered barrier if the remaining spatial average PCB concentration in the 0- to 15-foot depth increment exceeds 100 ppm. Additionally, for any evaluation area that exceeds 0.5 acre in size, GE must remove all soils in the top foot of unpaved areas containing PCB concentrations greater than an NTE level of 50 ppm.
- Further, at all areas where subgrade utilities potentially subject to emergency repair requirements are present, if the spatial average PCB concentration in the utility corridor exceeds 200 ppm, GE must evaluate whether any additional response actions are necessary. Further, if subgrade utilities are installed, repaired, or replaced in the future, GE must ensure that the spatial average PCB concentration in the backfill material is less than 25 ppm at commercial areas and less than 10 ppm in the top 3 feet and 25 ppm at greater depths for recreational areas.
- Finally, for properties/areas where a Conditional Solution is implemented, GE must comply with the requirements of Paragraphs 34.d and 35-38 of the CD with respect to future uses.

### 3.3 Performance Standards for Non-PCB Appendix IX+3 Constituents

The applicable Performance Standards for non-PCB Appendix IX+3 constituents in soil at Former Oxbow Areas J and K apply to the same averaging areas and depth increments as the PCB Performance Standards. They consist of the following:

- For dioxins and furans, total Toxicity Equivalency Quotient (TEQ) concentrations must be calculated using the Toxicity Equivalency Factors (TEFs) published by the World Health Organization (WHO) in 1998 (van den Berg *et al.*, *Environ. Health Perspectives*, Vol. 106, No. 12, Dec. 1998). Either the maximum TEQ concentration or the 95% upper confidence limit on the mean (95% UCL) of the TEQ data must be below certain



Preliminary Remediation Goals (PRGs) developed or approved by EPA for dioxin/furan TEQs. These PRGs are: for residential areas, 1 part per billion (ppb) in both the top foot and 1- to X-foot depth increments; for commercial areas, 5 ppb in the top foot of soil and 20 ppb in subsurface soil; and for recreational areas, 1 ppb in the top foot and 1.5 ppb in the 1- to 3-foot depth interval. In addition, at EPA's request, GE compared the maximum or 95% UCL TEQ concentrations to the following TEQ criteria (although these are not Performance Standards specified in the CD or SOW): 5 ppb for the 0- to 3-foot depth increment at commercial areas subject to a Conditional Solution; 1 ppb for the 0- to 3-foot depth increment at recreational areas subject to a Conditional Solution; and 20 ppb for soils below 3 feet at all recreational areas. (For convenience, these additional criteria are considered PRGs in this report.)

- For other non-PCB Appendix IX+3 constituents, the following steps must be followed:
  - As a screening step, the maximum concentrations of all detected constituents must be compared to the EPA Region 9 PRGs specified in Exhibit F-1 to Attachment F to the SOW or surrogate PRGs approved by EPA (jointly referred to as Screening PRGs), using residential PRGs for residential and recreational areas and industrial PRGs for commercial areas. Constituents whose maximum concentration exceeds the Screening PRG must be retained for further evaluation
  - For all constituents that are retained after this screening, their average concentrations for each relevant depth increment must either: (1) not exceed the pertinent Method 1 soil standards specified in the Massachusetts Contingency Plan (MCP) (or Method 2 standards if developed); or (2) be shown through an area-specific risk evaluation to have cumulative risk levels that do not exceed (after rounding) an Excess Lifetime Cancer Risk (ELCR) of  $1 \times 10^{-5}$  and a non-cancer Hazard Index (HI) of 1. In addition, EPA agreed to the following for the area-specific risk-evaluations at this RAA: (a) for the 0- to 15-foot depth increment, since the CD does not contain any specific exposure scenario, the average concentrations were to be compared to the Upper Concentration Limits (UCLs) set forth in the MCP; and (b) since EPA has not established any toxicity values for lead, the average lead concentrations were to be evaluated through comparison to certain criteria approved by EPA. These lead criteria are: for commercial areas, a Risk-Based Concentration (RBC) of 2,008 ppm for the 0- to 1-foot and 0- to 3-foot depth increments and a default concentration of 6,000 ppm (equivalent to the then-applicable MCP UCL for lead) for the 1- to 6-foot depth increment; and for recreational areas, an RBC of 1,313 ppm for the 0- to 1-foot and 0- to 3-foot depth increments.



### 3.4 Summary of RD/RA Evaluations

Based on the results of the soil investigations summarized in Section 2, GE conducted RD/RA evaluations for each averaging area to assess the need for remediation activities to achieve the applicable soil-related Performance Standards. The procedures used for those evaluations and the results of the evaluations were initially presented to EPA in the Conceptual Work Plan. Those evaluations applied the applicable Performance Standards to the averaging areas at this RAA based on the current use of those areas. Specifically, those evaluations: (a) applied the residential Performance Standards to the residential parcels (i.e., Parcels K10-10-5 and K10-10-6, which were evaluated, with EPA approval, as a single averaging area since they are under common ownership and are treated by the owner as one property); (b) applied the recreational Performance Standards to the vacant properties at Former Oxbow Area K (i.e., Parcels K10-10-3, K10-10-4, and the portion of K10-10-33 within the RAA) and to the designated recreational areas at Former Oxbow Area J; and (c) applied the commercial Performance Standards to the remaining portions of the properties at Former Oxbow Area J (i.e., Parcels K10-13-1, K10-12-1, K10-11-1, K10-11-2, K10-11-3, and K10-11-5). For the assessment of non-PCB Appendix IX+3 constituents, these evaluations utilized the MCP Method 1 soil standards that were in effect at that time, and they included area-specific risk evaluations for several areas.

Subsequently, as noted above, GE determined that certain of the non-residential properties within Former Oxbow Areas J and K could potentially be shown to achieve the soil-related Performance Standards for residential properties through the performance of limited additional investigations, evaluation, and (if necessary) remediation. Accordingly, GE proposed to conduct additional soil sampling at six such properties – Parcels K10-13-1, K10-12-1, K10-11-5, K10-10-3, K10-10-4, and the portion of K10-10-33 within the RAA (including, where applicable, the adjacent portions of the roads or road right-of-way) – in accordance with the sampling requirements specified in the SOW for residential properties. In addition, for purposes of evaluating whether these properties would meet the residential Performance Standards, GE proposed to evaluate each of these properties as a single averaging area (rather than dividing them into commercial and recreational areas, as was done in the Conceptual Work Plan).

Following EPA approval of that proposal, GE conducted the additional sampling at the six properties listed above. Based on the sampling results, GE elected to apply the residential Performance Standards to five of those properties (Parcels K10-12-1, K10-11-5, K10-10-3, K10-10-4, and the portion of K10-10-33 within the RAA) and to continue to apply the pertinent non-residential standards to Parcel K10-13-1. In these circumstances, GE conducted revised RD/RA evaluations for several properties and averaging areas. These included: (1) evaluations based on the residential Performance Standards for the five non-

residential properties where GE proposed to apply those standards; (2) a revised evaluation for the commercial portion of Parcel K10-13-1 based on the commercial Performance Standards and incorporating the supplemental sampling data; and (3) due to the reconfiguration of three of the designated recreational areas (R1, R2, and R3B) resulting from the evaluation of Parcels K10-12-1 and K10-11-5 as single overall residential properties, revised evaluations of those three recreational areas. The procedures used for those revised evaluations were the same as those used in the Conceptual Work Plan, with certain modifications (i.e., use of residential-area PRGs for screening and for the evaluation of dioxin/furan TEQs at the properties evaluated as residential, and application of the new "Wave 2" MCP Method 1 soil standards that became effective in April 2006). These modifications and the results of the revised RD/RA evaluations were presented in the Final Work Plan Addendum. (That Addendum also noted that, for the properties and areas that were previously evaluated in the Conceptual Work Plan and were not subject to revised evaluations, the new "Wave 2" MCP Method 1 soil standards would not change the outcome of those prior evaluations.)

Considering both (a) the evaluations presented in the Conceptual Work Plan and not revised and (b) the revised evaluations presented in the Final Work Plan Addendum, RD/RA evaluations were performed for a total of 14 averaging areas, shown on Figure 2. The results of these evaluations indicated that remediation consisting of soil removal/replacement would be necessary at nine of the 14 averaging areas to achieve the applicable Performance Standards for PCBs and/or certain non-PCB Appendix IX+3 constituents. Based on those evaluations, GE proposed to conduct such soil removal/replacement activities. The revised soil removal limits were shown in the Final Work Plan Addendum, and detailed design and implementation plans and specifications were provided in the Final Work Plan, with certain supplemental design information presented in the Final Work Plan Addendum. GE also demonstrated (in the Conceptual Work Plan or Final Work Plan Addendum, as pertinent) that, following the performance of the proposed soil remediation, the concentrations of both PCBs and other Appendix IX+3 constituents at each of the averaging areas at this RAA would meet the applicable soil-related Performance Standards set forth in the CD and SOW. Those conclusions are summarized in Section 5 of this Final Completion Report.

## 4. Summary of Remediation Activities

### 4.1 General

This section of the Final Completion Report describes the activities performed by GE and its contractors related to the implementation of remediation activities at Former Oxbow Areas J and K. As further described in this section, remediation activities performed by GE at Former Oxbow Areas J and K were implemented between July and November 2006, and generally included site preparation, soil removal/replacement, and property restoration. These activities were conducted on behalf of GE by Maxymillian Technologies, Inc. (Maxymillian). In addition, other contractors performed certain roles in connection with the remediation activities. Specifically, ARCADIS assisted with daily on-site observation and documentation of the remediation activities; Hill Engineers, Architects, Planners (Hill) performed pre- and post-excavation survey control as a subcontractor to Maxymillian; Berkshire Environmental Consultants, Inc. (BEC) performed ambient air monitoring during the performance of excavation activities; White Engineering, Inc. (White) provided assistance related to certain site restoration features; and Hyatt Tree Company (Hyatt) installed new landscape plantings and performed other miscellaneous site restoration activities. A description of the key components of the remediation activities conducted at Former Oxbow Areas J and K is presented in the remainder of this section. Representative site photographs taken during and after completion of remediation activities are provided in Appendix B.

### 4.2 Pre-Construction Activities

Several pre-construction activities were performed by GE and its subcontractors in preparation for the remediation activities at Former Oxbow Areas J and K. Such activities generally included the following:

- Pre-mobilization submittals: Prior to initiating the remediation activities, Maxymillian prepared several required submittals including a Health & Safety Plan, a Contingency Plan, and an Operations Plan. These documents were provided to EPA in the *Supplemental Information Package for Former Oxbow Areas A and C, Former Oxbow Areas J and K, and Lyman Street Area - Properties West of Lyman Street* (SIP; BBL, June 2006), which was conditionally approved by EPA in a letter to GE dated July 7, 2006. Maxymillian also provided information regarding the identification and testing of backfill materials for use following the performance of removal activities. The sources of backfill materials used within Former Oxbow Areas J and K were as follows:

- General fill – Pittsfield Sand and Gravel (Hurley's Gravel Pit), Pittsfield, Massachusetts; and
- Topsoil – Maxymillian stockpile, Pittsfield, Massachusetts.

These sources of backfill and topsoil were sampled for PCBs and Appendix IX+3 volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals prior to their use. Analytical results associated with the sampling activities were provided to EPA in a letter from GE dated July 10, 2006.

- Pre-construction meeting: GE conducted a pre-construction meeting with Maxymillian prior to the initiation of remediation activities at Former Oxbow Areas J and K.
- Pre-construction survey: Hill performed a pre-construction survey to document existing conditions at the properties/areas subject to remediation activities at Former Oxbow Areas J and K and to demarcate the soil removal areas, as well as other components of the project.
- Utility markings: Maxymillian contacted DIGSAFE to demarcate utilities within the project area.
- Tree/shrub inventory: Prior to the start of vegetation clearing activities (described below), White performed an inventory of trees and shrubs in the vegetated areas subject to remediation. The results of this inventory were used to develop a tree/shrub planting plan to replace (or enhance the density of) the trees and shrubs removed during remediation activities, subject to discussions with the property owners and EPA.
- Site controls: Site controls and access control measures were established by Maxymillian prior to the start of remediation activities to prevent access to the work areas by unauthorized personnel or vehicles.
- Erosion controls: Erosion control measures were installed, including silt fencing and hay bales.
- Clearing of vegetation: The above-grade portions of all trees, shrubs, or other vegetation, which would have interfered with soil excavation were cleared prior to the initiation of remediation activities.

- Ambient air monitoring plan and baseline air monitoring: BEC developed an air monitoring plan for use at Former Oxbow Areas J and K that included the performance of baseline PCB air monitoring activities prior to the initiation of remediation activities, to be followed by performance of PCB and particulate air monitoring during active remediation. As part of these activities, BEC installed six air monitoring stations within or around the perimeter of Former Oxbow Areas J and K to measure airborne concentrations of PCBs and particulates during construction activities. An additional air monitoring station was established on GE-owned property at 15 Longfellow Avenue to measure background conditions. Prior to remediation activities, baseline air monitoring was performed for PCBs at three on-site locations and the background location. The air monitoring program is discussed in Section 4.5 below.
- Mobilization of contractor equipment: The final pre-construction activity involved the mobilization of the contractor equipment necessary to perform the remediation activities to the project area.

Following performance of each of the pre-mobilization activities described above, the remedial contractor initiated performance of the remediation activities at Former Oxbow Areas J and K. Those activities are described below.

### 4.3 Monitoring Well Decommissioning

In the Final Work Plan, GE proposed to decommission one of the 13 monitoring wells (i.e., well J-1) located within Former Oxbow Areas J and K prior to the performance of remediation activities. However, this well could not be located and was therefore not decommissioned. Of the remaining 12 monitoring wells, 11 are or were part of the ongoing groundwater monitoring program at GMA 2, and the other well (OJ-MW-1) was not installed by GE. All 12 of these monitoring wells were protected during the performance of remediation activities, as summarized in the following table:

Averaging Area	Protected Wells
K10-12-1	J-1R*
K10-11-1 (commercial portion)	GMA2-3
K10-11-2 (commercial portion)	GMA2-1
K10-11-5	GMA2-7
	OJ-MW-1
	OJ-MW-2
Recreational Area R2	GMA2-6
Recreational Area R3A	GMA2-2

Averaging Area	Protected Wells
K10-10-3	GMA2-9
K10-10-4	GMA2-4
K10-10-5/-6	GMA2-5
K10-10-33	GMA2-8

Note:

- \* - J-1R was previously installed as a replacement for J-1. GE proposed to decommission J-1 prior to the start of remediation activities, but this well could not be located.

In addition, one monitoring well (GMA2-10) was installed on Parcel K10-11-2 subsequent to the completion of remediation activities on November 27, 2007. The location of this monitoring well is shown on the as-built survey drawing in Appendix C.

**4.4 Soil Removal and Disposition Activities**

Soil removal activities were performed at the areas subject to remediation using tracked excavators. These soil removal actions were conducted to the horizontal and vertical limits approved by EPA. This approval included an agreement with EPA (documented in an electronic mail message sent by ARCADIS to EPA on July 20, 2006) regarding two one-foot excavations on Parcel K10-11-5, where the removal limits were revised slightly due to differences in the location of the edge of water. In accordance with that agreement, GE conducted removal actions to the current edge of water. Specifically, for those areas where the proposed removal area extended past the current edge of water, GE removed soil up to the current edge of water; and for the area where the removal area fell short of the current edge of water, GE extended soil removal to the current edge of water.

As-Built survey drawings for the remediation activities, showing the soil removal limits that were achieved during the remediation, are provided in Appendix C. The as-built survey drawing numbered C-101 depicts the vertical extent of excavation as it was determined during remediation actions. For excavation areas greater than 1 foot below ground surface, except the 3-foot excavation area on Parcel K10-11-2 and 6-foot excavation area on Parcel K10-11-3, excavations extended to the specified elevations. Due to the steep topography of the 3-foot excavation area on Parcel K10-11-2 and 6-foot excavation area on Parcel K10-11-3, soil removal was conducted to depths of 3 feet and 6 feet below ground surface, respectively, rather than to a specified elevation.

In accordance with provisions outlined in the Final Work Plan, excavated soils were loaded directly into trucks for transportation to and consolidation at the appropriate OPCA located at GE’s Pittsfield facility. As specified on the EPA-approved technical drawings included in

the Final Work Plan and modified in the Final Work Plan Addendum, soils removed from certain excavation areas identified on those drawings were consolidated at the Building 71 OPCA, which is authorized to receive material subject to regulation under the Toxic Substances Control Act (TSCA) and/or the Resource Conservation and Recovery Act (RCRA). The remaining soils were loaded directly into trucks for transportation to and consolidation at the Hill 78 OPCA.

Prior to loading, the bed of each transport vehicle was lined with either polyethylene sheeting or another appropriate bed liner. After each vehicle was loaded, a tarpaulin was secured over the top of the bed, and the wheels and undercarriage of each transport vehicle were inspected to identify (and remove, if necessary) any accumulated soil prior to off-site transportation of the excavated soils. Before any soils were transported from the work site, a bill of lading was prepared for each vehicle transporting soils to the appropriate OPCA. Bills of lading were signed by GE or GE’s representative.

The final limits of soil removal for Former Oxbow Areas J and K were surveyed by Hill to document that the excavations had been completed to the limits shown on the EPA-approved technical drawings included in the Final Work Plan, as modified in the Final Work Plan Addendum. The resultant survey information is presented in Appendix C. It should be noted that all excavations were performed to the EPA-approved limits (and beyond in certain instances).

Based on the final survey measurements, approximately 1,955 in-situ cy of soil were excavated by GE and placed in the OPCAs. The following table lists the averaging areas subject to remediation and the approximate soil volume removed from each.

<b>Averaging Area</b>	<b>Approximate Soil Removal Volume (cy)</b>
K10-13-1	70
K10-12-1	50
K10-11-1 (commercial portion)	25
K10-11-2 (commercial portion)	270
K10-11-3 (commercial portion)	120
K10-11-5	175
Recreational Area R2	375
Recreational Area R3B	55
K10-10-5/-6	815
<b>TOTAL</b>	<b>1955</b>



A total of 1,290 cy of soil were transported to and consolidated at the Building 71 OPCA, while the remaining 665 cy were transported to and consolidated at the Hill 78 OPCA. A summary of the excavated soil loads from Former Oxbow Areas J and K, as well as copies of the bills of lading, are provided in Appendix D.

#### 4.5 Ambient Air Monitoring Activities

BEC conducted ambient air monitoring for PCBs prior to and during the course of soil remediation activities at Former Oxbow Areas J and K. Such monitoring was performed for 24-hour periods. Prior to remediation activities, ambient air monitoring for PCBs was performed at three on-site locations and at the background location at 15 Longfellow Avenue on July 6-7 and July 8-9, 2006. During remediation activities, sampling was conducted at three on-site locations and the background location on July 13-14, 2006.

In addition, BEC conducted particulate matter monitoring during the course of active soil removal from July 12 through July 28, 2006. This monitoring was conducted at one to four of the six on-site locations, depending on the extent of site work. These locations varied depending on the progression of site activities. Particulate matter monitoring was typically conducted from approximately 7 a.m. to 5 p.m. each day for the duration of soil removal activities unless adverse weather conditions or equipment failures occurred.

Details regarding air monitoring locations, equipment used, and monitoring results are provided in a report titled *Ambient Air Monitoring for Polychlorinated Biphenyls and Particulate Matter – Former Oxbow Areas J and K* (Ambient Air Monitoring Report; BEC, November 2006), a copy of which is provided as Appendix E. As noted in that report, the airborne PCB notification level of  $0.05 \mu\text{g}/\text{m}^3$  was not reached during sampling activities at any of the monitored sites, and the notification level for particulate matter ( $0.120 \text{mg}/\text{m}^3$ ) was likewise not reached during the particulate monitoring period at any of the monitored sites.

Data validation for all air monitoring data was performed in accordance with the procedures specified in GE's approved *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP; submitted March 30, 2007, and approved June 13, 2007). The data validation report for the air monitoring data is provided in Appendix F. As indicated in that report, 100% of the air monitoring data collected by BEC are considered to be usable, which is greater than the minimum required usability of 90% specified in the FSP/QAPP. Thus the overall air monitoring data meet the data quality objectives set forth in the FSP/QAPP.



## 4.6 Site Restoration and Demobilization

Following completion of the required soil removal activities, site restoration activities were performed as necessary. Upon completion of the site restoration activities, all debris was collected and disposed of at an appropriate disposal facility and all contractor equipment was demobilized from the work site. Additional details regarding each of these activities are provided below.

### 4.6.1 Restoration of Disturbed Vegetation

As indicated in Section 4.2, White performed an inventory of all existing trees and shrubs (i.e., type, quantity, size, etc.) located within the limits of the removal actions prior to the initiation of remediation activities. In accordance with the Final Work Plan, excavation areas that originally contained vegetated surfaces (lawns, vegetated areas, etc.) were restored to within 6 inches of the original grade utilizing compacted soil fill materials. In areas requiring the placement of grass seed, a 6-inch layer of topsoil was placed to restore pre-excavation grades, followed by placement of grass seed and mulch. New trees and shrubs were installed in accordance with the Vegetative Restoration Plan prepared by White and included in the SIP, as revised in an *Addendum to Supplemental Information Package for Former Oxbow Areas A and C, Former Oxbow Areas J and K, and Lyman Street Area - Properties West of Lyman Street* (SIP Addendum; letter from GE dated October 5, 2006), and approved by EPA in a letter to GE dated October 18, 2006. Figure 4 shows the trees and shrubs planted as part of vegetative restoration activities.

### 4.6.2 Asphalt/Concrete/Gravel Areas

Portions of certain properties were restored with asphalt, gravel, or concrete to match pre-remediation conditions, as modified through discussions with the property owners. Specifically, driveways were restored with asphalt or gravel, and sidewalks and various pads were restored with concrete. Restoration of the asphalt/concrete areas began with the placement and compaction of backfill. The backfill was placed to within 10 to 12 inches of final grade. A total of approximately 4 to 6 inches of gravel sub-base material was then placed on top of the backfill and compacted. In areas requiring the placement of asphalt, the final 4 to 6 inches of the excavation were restored with layers of binder and top/wearing course asphalt. The asphalt material was placed and compacted to generally match the surrounding surface contours and to promote positive drainage. In areas requiring the restoration of concrete, the final 4 to 6 inches of the excavation were restored with a layer of concrete and steel reinforcing mesh, which was poured to match the surrounding surface contours and to promote positive drainage. Areas requiring the restoration of gravel materials were backfilled with soil to within 12 inches of final grade and then backfilled with

gravel material to surface grade. Similar to other restoration activities, the gravel material was placed to match the surrounding surface contours and to promote positive drainage.

#### **4.6.3 Contractor Demobilization**

At the completion of site restoration activities, contractor equipment, excess materials, and temporary erosion and sedimentation control measures were removed from the site. Following demobilization, all restored vegetation was watered until adequately established.

#### **4.7 Impacts on Flood Storage Capacity**

Since the entire area of Former Oxbow Areas J and K is located within the 100-year floodplain of the Housatonic River, potential impacts from the remediation activities on the flood storage capacity of the floodplain have been evaluated. As indicated above, the remediation activities conducted at this RAA were performed in such a manner as to re-establish the same general ground surface and topography of the affected areas. As a result, these activities resulted in no impact (either gain or loss) on the flood storage capacity of the floodplain.

## 5. Achievement of Performance Standards

### 5.1 General

This section demonstrates that, for those properties/averaging areas where remediation was conducted, implementation of the remediation activities described in Section 4 achieved the applicable Performance Standards for PCBs and non-PCB Appendix IX+3 constituents. It further demonstrates that, at the properties/areas where remediation was not required, pre-existing conditions meet applicable Performance Standards. The discussion in this section relies principally on the RD/RA evaluations presented in the Conceptual Work Plan or Final Work Plan Addendum, as relevant.

### 5.2 Properties/Areas Evaluated Based on Residential Performance Standards

As discussed above, there are two currently residential parcels at Former Oxbow Areas J and K – Parcels K10-10-5 and K10-10-6. Since these parcels are under common ownership and are treated by the owner as a single property, they were evaluated, with EPA approval, as one averaging area subject to the residential Performance Standards. In addition, as also noted above, GE elected to apply the residential Performance Standards to five currently non-residential properties – Parcels K10-12-1, K10-11-5, K10-10-3, K10-10-4, and the portion of K10-10-33 within this RAA.

The applicable PCB Performance Standards for residential properties require that the spatial average PCB concentrations not exceed 2 ppm in either the 0- to 1-foot or the 1- to X-foot depth increment, where X equals the depth to which PCBs were detected (up to a maximum of 15 feet). At all the above-listed properties, PCBs were detected to a depth of 15 feet, and thus the evaluations were conducted for the 0- to 1-foot and 1- to 15-foot depth increments. In addition, for any averaging area that exceeds 0.25 acre in size, there must be no PCB concentration in the top foot of soils in unpaved portions that exceeds the residential NTE criterion of 10 ppm. For non-PCB constituents, the pertinent Performance Standards require that: (a) for dioxin/furan TEQs, the maximum (or 95% UCL) concentration in the 0- to 1-foot and 1- to 15-foot depth increments not exceed the residential PRG of 1 ppb; and (b) for the other constituents retained after comparison to the Screening PRGs, the average concentrations in the 0- to 1-foot and 1- to 15-foot depth increments not exceed the applicable MCP Method 1 S-1 soil standards (or be shown through an area-specific risk evaluation to be below the risk benchmarks specified in the SOW).

The following table demonstrates that each of the above-listed properties evaluated as residential satisfies the Performance Standards for residential properties, either without the need for remediation or after the remediation performed. The information in this table is based on the Conceptual Work Plan for Parcels K10-10-5 & K10-10-6 and on the Final Work Plan Addendum for the other properties listed. The PCB concentrations listed represent post-remediation concentrations for the properties where remediation was conducted and pre-existing concentrations for the properties where remediation was not required. The non-PCB conditions represent pre-existing conditions because remediation was not required to address non-PCB constituents at any of these properties.

Property /Area	Remediation Conducted?	Current/Post-Remediation PCB Conditions			Current Non-PCB Conditions
		Depth Increment	Standard (ppm)	Concen. (ppm)	
K10-10-5 & K10-10-6	Yes (to address PCBs – 815 cy removal)	Max (top ft)	10	2.88	All dioxin/furan TEQs < PRG; all other retained constituents < Method 1 S-1 standards in both depth increments
		0-1 ft (avg)	2	0.41	
		1-15 ft (avg)	2	1.63	
K10-12-1	Yes (to address PCBs – 50 cy removal)	Max (top ft)	10	7.2	All dioxin/furan TEQs < PRG; all other retained constituents < Method 1 S-1 standards in both depth increments
		0-1 ft (avg)	2	0.52	
		1-15 ft (avg)	2	0.85	
K10-11-5	Yes (to address PCBs – 175 cy removal)	Max (top ft)	10	8.3	All dioxin/furan TEQs < PRG; all other retained constituents < Method 1 S-1 standards in both depth increments
		0-1 ft (avg)	2	0.65	
		1-15 ft (avg)	2	1.73	
K10-10-3	No (not required)	Max (top ft)	10	0.39	All dioxin/furan TEQs < PRG; all other retained constituents < Method 1 S-1 standards in both depth increments
		0-1 ft (avg)	2	0.18	
		1-15 ft (avg)	2	0.64	
K10-10-4	No (not required)	Max (top ft)	NA	NA	All dioxin/furan TEQs < PRG; all other retained constituents < Method 1 S-1 standards in both depth increments
		0-1 ft (avg)	2	0.15	
		1-15 ft (avg)	2	0.31	
K10-10-33 (portion in RAA)	No (not required)	Max (top ft)	10	2.5	All dioxin/furan TEQs < PRG; all other retained constituents < Method 1 S-1 standards in both depth increments
		0-1 ft (avg)	2	0.19	
		1-15 ft (avg)	2	0.38	

Notes:

1. Max (top ft) = maximum PCB concentration in top foot of soil in unpaved area of property.
2. NA = Not applicable since the evaluation area is less than 0.25 acre (so NTE criterion does not apply).

As shown in the above table, each property/area listed currently satisfies the applicable Performance Standards for residential properties under the CD and SOW and thus is suitable for unrestricted future use without the need for an ERE or a Conditional Solution.

### 5.3 Commercial Areas

Four averaging areas at Former Oxbow Areas J and K were evaluated as commercial areas. These were the commercial portions of Parcels K10-13-1, K10-11-1, K10-11-2, and K10-11-3, as shown on Figure 2. All four of these areas were subject to Conditional Solutions.

The applicable PCB Performance Standards for such commercial areas with Conditional Solutions require that the spatial average PCB concentrations not exceed 25 ppm in the 0- to 1-foot and 0- to 3-foot depth increments or 200 ppm in the 1- to 6-foot depth increment, and that an engineered barrier be installed if the remaining average PCB concentration in the 0- to 15-foot depth increment exceeds 100 ppm. In addition, for any averaging area that exceeds 0.5 acre in size, there must be no PCB concentration in the top foot of soils in unpaved portions that exceeds the commercial NTE criterion of 125 ppm. For non-PCB constituents, the pertinent Performance Standards (or other comparison criteria) require that: (a) for dioxin/furan TEQs, the maximum (or 95% UCL) concentrations not exceed PRGs of 5 ppb in the top 3 feet or 20 ppb in deeper soil; and (b) for the other constituents retained after comparison to the Screening PRGs, the average concentrations in the same depth increments used for the PCB evaluations not exceed the applicable MCP Method 1 soil standards (using the category S-2 standards for the 0- to 1-foot and 0- to 3-foot depth increments and the category S-3 standards for the 1- to 6-foot and 0- to 15-foot depth increments) or be shown through an area-specific risk evaluation to be below the risk benchmarks specified in the SOW (or, for lead, below the EPA-approved RBC/comparison criteria for commercial areas).

The following table demonstrates that each of the above-listed commercial areas currently satisfies the Performance Standards for such areas. The information in this table is based on the Final Work Plan Addendum for Parcel K10-13-1 and on the Conceptual Work Plan for the other areas listed. The PCB concentrations listed represent post-remediation concentrations for Parcels K10-13-1 and K10-11-2 and pre-existing concentrations for Parcels K10-11-1 and K10-11-3 (where remediation was not required to address PCBs). The non-PCB conditions for all areas listed represent post-remediation conditions and are based on area-specific risk evaluations conducted for those areas in their post-remediation condition.

Averaging Area	Remediation Conducted?	Current/Post-Remediation PCB Conditions			Current/Post-Remediation Non-PCB Conditions
		Depth Increment	Standard (ppm)	Concen. (ppm)	
K10-13-1 (commercial portion)	Yes (to address non-PCBs [antimony & lead] – 70 cy removal)	Max (top ft)	125	3.3	All dioxin/furan TEQs < PRGs; other retained constituents shown by area-specific post-remediation risk evaluation to have cancer and non-cancer risks < SOW benchmarks, with lead < applicable RBC/comparison criteria
		0-1 ft (avg)	25	0.37	
		0-3 ft (avg)	25	7.62	
		1-6 ft (avg)	200	8.05	
		0-15 ft (avg)	100	2.78	
K10-11-1 (commercial portion)	Yes (to address non-PCBs [PAHs] – 25 cy removal)	Max (top ft)	NA	NA	All dioxin/furan TEQs < PRGs; other retained constituents shown by area-specific post-remediation risk evaluation to have cancer and non-cancer risks < SOW benchmarks (lead not retained)
		0-1 ft (avg)	25	0.55	
		0-3 ft (avg)	25	3.74	
		1-6 ft (avg)	200	3.24	
		0-15 ft (avg)	100	1.21	
K10-11-2 (commercial portion)	Yes (to address PCBs and non-PCBs [PAHs] – 270 cy removal)	Max (top ft)	125	110	All dioxin/furan TEQs < PRGs; other retained constituents shown by area-specific post-remediation risk evaluation to have cancer and non-cancer risks < SOW benchmarks (lead not retained)
		0-1 ft (avg)	25	13.12	
		0-3 ft (avg)	25	15.69	
		1-6 ft (avg)	200	7.75	
		0-15 ft (avg)	100	7.47	
K10-11-3 (commercial portion)	Yes (to address non-PCBs [PAHs] – 120 cy removal)	Max (top ft)	NA	NA	All dioxin/furan TEQs < PRGs; other retained constituents shown by area-specific post-remediation risk evaluation to have cancer and non-cancer risks < SOW benchmarks (lead not retained)
		0-1 ft (avg)	25	14.28	
		0-3 ft (avg)	25	5.40	
		1-6 ft (avg)	200	0.40	
		0-15 ft (avg)	100	1.10	

Notes:

1. Max (top ft) = maximum PCB concentration in top foot of soil in unpaved areas.
2. NA = Not applicable since the evaluation area is less than 0.5 acre (so NTE criterion does not apply).

As shown in the above table, each of the listed commercial areas satisfies the Performance Standards in the CD and SOW for commercial areas. Conditional Solutions have been implemented for each of those areas, as discussed further in Section 6.2 below.

#### 5.4 Recreational Areas

The four separately designated recreational areas, shown on Figure 2 as areas R1, R2, R3A, and R3B, were evaluated based on the Performance Standards for recreational areas with Conditional Solutions. The Performance Standards for such areas require that the spatial average PCB concentrations not exceed 10 ppm in the 0- to 1-foot and 0- to 3-foot depth increments, and that an engineered barrier be installed if the remaining average PCB concentration in the 0- to 15-foot depth increment exceeds 100 ppm. In addition, for any averaging area that exceeds 0.5 acre in size, there must be no PCB concentration in the top foot of soils in unpaved portions that exceeds the recreational NTE criterion of 50 ppm. For non-PCB constituents, the pertinent Performance Standards (or other comparison criteria) require that: (a) for dioxin/furan TEQs, the maximum (or 95% UCL) concentrations not exceed PRGs of 1 ppb in the top 3 feet or 20 ppb in deeper soil; and (b) for the other constituents retained after comparison to the Screening PRGs, the average concentrations in the same depth increments used for the PCB evaluations not exceed the applicable MCP Method 1 soil standards (using the category S-1 standards for the 0- to 1-foot and 0- to 3-foot depth increments and the category S-2 standards for the 0- to 15-foot depth increment) or be shown through an area-specific risk evaluation to be below the risk benchmarks specified in the SOW (or, for lead, below the EPA-approved RBC/comparison criteria for recreational areas).

The following table demonstrates that each of the above-listed recreational areas satisfies the Performance Standards for such areas. The information in this table is based on the Conceptual Work Plan for Recreational Area R3A and on the Final Work Plan Addendum for Recreational Areas R1, R2, and R3B. The PCB concentrations listed represent post-remediation concentrations for areas R2 and R3B (where remediation was conducted) and pre-existing concentrations for areas R1 and R3A (where remediation was not required). The non-PCB conditions represent post-remediation conditions for area R2 (where remediation was conducted to address non-PCB constituents) and pre-existing conditions for the other recreational areas (where remediation was not required to address non-PCB constituents).

Averaging Area	Remediation Conducted?	Current/Post-Remediation PCB Conditions			Current/Post-Remediation Non-PCB Conditions
		Depth Increment	Standard (ppm)	Concen. (ppm)	
R1	No (not required)	Max (top ft)	NA	NA	All dioxin/furan TEQs < PRGs; all other retained constituents < Method 1 soil standards in all depth increments
		0-1 ft (avg)	10	0.68	
		0-3 ft (avg)	10	4.25	
		0-15 ft (avg)	100	1.70	
R2	Yes (to address PCBs and non-PCBs [PAHs] – 375 cy removal)	Max (top ft)	50	13.2	All dioxin/furan TEQs < PRGs; all other retained constituents < Method 1 soil standards in all depth increments
		0-1 ft (avg)	10	3.02	
		0-3 ft (avg)	10	7.83	
		0-15 ft (avg)	100	3.23	
R3A	No (not required)	Max (top ft)	NA	NA	All dioxin/furan TEQs < PRGs; other retained constituents shown by area-specific risk evaluation to have cancer and non-cancer risks < SOW benchmarks
		0-1 ft (avg)	10	3.27	
		0-3 ft (avg)	10	4.58	
		0-15 ft (avg)	100	4.06	
R3B	Yes (to address PCBs – 55 cy removal)	Max (top ft)	NA	NA	All dioxin/furan TEQs < PRGs; other retained constituents shown by area-specific risk evaluation to have cancer and non-cancer risks < SOW benchmarks
		0-1 ft (avg)	10	8.73	
		0-3 ft (avg)	10	6.15	
		0-15 ft (avg)	100	1.60	

Notes:

1. Max (top ft) = maximum PCB concentration in top foot of soil in unpaved areas.
2. NA = Not applicable since the evaluation area is less than 0.5 acre (so NTE criterion does not apply).

The above table demonstrates that each of these designated recreational areas meets the applicable Performance Standards for recreational areas. In addition, based on further review of the data, GE has performed a supplemental evaluation of Recreational Area R1 to show that that area also meets the applicable Performance Standards for residential properties. During the supplemental sampling that GE conducted to determine whether particular properties could meet the residential Performance Standards, Recreational Area R1 was sampled in accordance with the SOW's sampling requirements for residential properties, as shown in the Final Work Plan Addendum. The PCB and non-PCB sampling data from that area in its existing condition (which were presented in the Final Work Plan Addendum) have been evaluated against the Performance Standards for residential properties. The results of this evaluation are presented in tables in Appendix G. As shown in Tables G-1 and G-2 in that appendix (which reference the polygons shown in Appendix C



to the Final Work Plan Addendum), the spatial average PCB concentrations at Recreational Area R1 are 0.68 ppm in the 0- to 1-foot depth increment and 1.77 ppm in the 1- to 15-foot depth increment, both of which are below the residential PCB Performance Standard of 2 ppm. (Since this area is less than 0.25 acre, the residential NTE criterion does not apply.) For non-PCB constituents, Table G-3 presents the screening evaluation, and Tables G-4 and G-5 demonstrate that all concentrations of dioxin/furan TEQs are less than the residential PRG of 1 ppb, and that the average concentrations of the other retained constituents in the 0- to 1-foot and 1- to 15-foot depth increments are below the MCP Method 1 S-1 soil standards for those constituents.

Thus, Recreational Area R1 meets the applicable Performance Standards for unrestricted use. Accordingly, there was no need to seek an ERE or implement a Conditional Solution for that area. For the other designated recreational areas, Conditional Solutions have been implemented as part of the overall properties of which they are a part, as discussed further in Section 6.2 below.

## 5.5 Utility Corridor Evaluation

In addition to the evaluations of the specific averaging areas shown on Figure 2, GE evaluated all of the PCB data at Former Oxbow Areas J and K located within utility corridors for areas where subgrade utilities potentially subject to emergency repair are present. As discussed in the Conceptual Work Plan, all discrete PCB sample results located within utility corridors were less than 200 ppm with one exception – the 0- to 1-foot sample at location RAA15-B20. However, the soils associated with that sample at location RAA15-B20 were removed in order to achieve the applicable Performance Standards at Parcel K10-11-5 and Recreational Area R3B. Therefore, it was concluded that since there are no discrete PCB sample results located within utility corridors with PCB concentrations greater than 200 ppm (following remediation activities), the associated spatial averages for each of these utility corridors are necessarily below 200 ppm. Thus, no further evaluation of the need for remedial actions within utility corridors was required.

## 6. Post RD/RA Activities

### 6.1 General

This section describes the activities performed, following completion of the RD/RA evaluations and the soil-related remediation and restoration actions at Former Oxbow Areas J and K, to complete the activities necessary to request a Certification of Completion from EPA. As further discussed below, these activities include the notifications to four property owners of the implementation of Conditional Solutions at their properties and the performance of a Pre-Certification Inspection under the CD.

### 6.2 Notifications Related to Conditional Solutions

The CD requires that, for non-GE-owned private properties that do not meet the Performance Standards for residential use, GE must make “best efforts” (as defined in the CD) to obtain an ERE from the property owners, and that where the owners do not agree to an ERE, GE must implement a Conditional Solution in accordance with the CD. At Former Oxbow Areas J and K, as discussed in Section 5, the properties that do not meet residential-use standards consist of: (a) Parcel K10-13-1 (including the adjacent portion of the Zeno Street right-of-way); (b) Parcel K10-11-1 (including the western portion of Recreational Area R2 and the adjacent portion of the Zeno Street right-of-way); (c) Parcel K10-11-2 (including Recreational Area R3A and the eastern portion of Recreational Area R2); and (d) Parcel K10-11-3 (including Recreational Area R3B). For each of these properties, GE offered the property owners the compensation required by the CD in exchange for an ERE. However, the property owners decided not to execute an ERE.

Accordingly, since these properties did not meet the Performance Standards for residential use, Conditional Solutions were implemented. On June 21, 2007, GE provided notices to each of the above-listed property owners that a Conditional Solution had been implemented at their properties. As required by the CD, each of these notices described the terms of the Conditional Solution, including the requirements applicable to GE and the owner regarding future remediation activities at the property, and the levels of PCBs and other constituents remaining at the property. Each such notice letter was accompanied by a Fact Sheet prepared by EPA relating to future uses and activities at the property. Copies of these notice letters are included in Appendix H. In addition, by letters dated July 17, 2007, GE provided notices of the Conditional Solution on each such property to the holders of encumbrances on that property. Copies of these notice letters are also included in Appendix H.

### **6.3 Pre-Certification Inspection**

Since performance of the remediation activities at Former Oxbow Areas J and K, GE has conducted periodic inspections of the remediated and restored properties therein. These inspections are described in Section 7.2 below under Post-Removal Site Control activities.

In addition, a formal Pre-Certification Inspection of the Former Oxbow Areas J and K RAA was conducted in accordance with Paragraph 88.a of the CD on April 16, 2008. That inspection was attended by representatives of EPA, MDEP, and GE. No issues were identified during that inspection regarding the completed response actions.

Based on the outcome of that inspection, GE has concluded that the Former Oxbow Areas J and K Removal Action is complete and that the applicable Performance Standards for that Removal Action have been achieved. Therefore, in accordance with Paragraph 88.a of the CD, GE has prepared this report requesting EPA to provide a Certification of Completion for the Former Oxbow Areas J and K Removal Action.

## 7. Post-Removal Site Control Activities

### 7.1 General

This section presents GE's Post-Removal Site Control Plan for Former Oxbow Areas J and K. Post-Removal Site Control activities include periodic inspections, maintenance, and repair (if required) of the backfilled, restored, and revegetated areas. As discussed in Section 7.2, GE has performed some periodic inspections, and will continue to inspect the backfilled, restored, and revegetated areas as described below. In addition, as required by the CD, GE has performed one annual review and inspection of the properties at which Conditional Solutions have been implemented and will continue to conduct review and inspection activities as described in Section 7.3. This Post-Removal Site Control Plan replaces and supersedes the Post-Removal Site Control Plan presented in the Final Work Plan and revised in the Final Work Plan Addendum.

GE will provide EPA with a minimum 14-day notification prior to conducting any inspections required under Section 7. In addition, following each inspection, GE will submit an inspection report to EPA within 30 days of the inspection. These reports will include the name and contact phone number for the person(s) conducting the inspections. Any deficiencies identified during the inspections described in Section 7.2 will be corrected within 90 days of the inspection date, unless otherwise agreed to by EPA.

### 7.2 Inspections, Monitoring, Maintenance, and Reporting Activities for the Removal Action Area

Attachment J to the SOW requires the performance of periodic inspections for the response actions implemented at Former Oxbow Areas J and K. In accordance with that attachment, GE developed an initial Post-Removal Site Control Plan, which was provided in Attachment E to the Final Work Plan and revised in Attachment G to the Final Work Plan Addendum. That plan required that backfilled/restored areas be inspected approximately one month after completion of construction and thereafter two times per year for a period of two years. These inspections were required to include visual observations of the following: (a) the effectiveness of erosion controls in areas where vegetation is not yet established; (b) any areas where excessive settlement has occurred relative to the surrounding areas; (c) any drainage or growth problems; and (d) other conditions that could jeopardize the performance of the completed remediation activities. In addition, the inspections were required to assess the condition of the planted vegetation to ensure that the vegetation was growing as anticipated and providing the desired degree of erosion control.

In accordance with these requirements, GE conducted the first three periodic inspections at Former Oxbow Areas J and K in November 2006, May 2007, and October 2007. The results of these inspections were presented to EPA in letters from GE dated January 3, 2007, July 11, 2007, and November 7, 2007, respectively. Those letters indicated that some of the inspected properties required certain maintenance activities. Specifically, these inspections identified the need to conduct the following maintenance activities (with the date of the inspection noted in parentheses):

- Completing the installation of trees and shrubs on Parcels K10-11-5 and K10-10-6 (November 2006);
- Repairing ruts and tracks resulting from recreational vehicle use on the undeveloped Longview Terrace and Parcels K10-11-3 and K10-11-5 (November 2006);
- Repairing and re-seeding the six-foot excavation area on Parcel K10-11-3 along East Street (May 2007);
- Repairing erosion observed along the riverbank on Parcels K10-11-3 and K10-11-5 (May 2007);
- Repairing beaver controls on Parcel K10-12-1 (May 2007);
- Installing six choke cherries in clusters on Parcel K10-11-5 (May 2007);
- Installing tree guards on saplings on Parcel K10-11-2 (October 2007); and
- Installing two elm trees on Parcel K10-10-6 and four cottonwood trees on Parcel K10-12-1 (October 2007).

All of these activities have been completed to date. As noted in GE's November 7, 2007 letter, GE installed riprap along the riverbank on Parcels K10-11-3 and K10-11-5 during the week of October 15, 2007. That letter also noted that, upon further evaluation, adequate vegetation had grown on Parcel K10-11-3, and therefore no seeding was necessary at that time.

Going forward, GE will conduct periodic inspections of the backfilled/restored areas at Former Oxbow Areas J and K in accordance with the requirements specified below. These areas will be inspected annually (unless and until EPA approves an alternate frequency), with the next such inspection scheduled to be performed in August or September 2008.

These inspections will include visual observations focusing on the following: (a) the effectiveness of erosion controls in areas where vegetation is not yet established; (b) any areas where excessive settlement has occurred relative to the surrounding areas; (c) any drainage or growth problems; and (d) other conditions that could jeopardize the performance of the completed remediation activities. These inspections will also include an evaluation of areas susceptible to erosion as a result of the remediation, including, but not limited to, the riverbank areas lined with riprap following remediation activities. The backfilled/restored areas, areas susceptible to erosion, and other areas subject to these inspection activities are shown on Figure 3.

In addition to these scheduled inspections, the backfilled/restored areas will be inspected following severe storm events to ensure that those areas have not sustained significant damage. For this purpose, a severe storm is defined as one in which a 15-minute instantaneous peak flow of 3,500 cubic feet per second (cfs) or greater measured on the Housatonic River at the United States Geological Survey (USGS) gauging station at Coltsville, Massachusetts.

Additionally, GE will inspect the plantings in all revegetated areas two times in 2008 and two times in 2009 to complete the required two-year monitoring period for the restored vegetation. These inspections will be conducted in May and in August or September. During these inspections, GE will inspect the grass/herbaceous covers to assess the condition of the vegetation, including any evidence of stressed or sparse cover, and to ensure that the vegetation is growing as anticipated and providing the desired degree of erosion control. If signs of stress or sparse cover are observed, GE, in consultation with EPA, will evaluate the need to and will reseed and/or fertilize those areas, as appropriate. GE will also inspect the trees and shrubs planted as part of the restoration activities (shown on Figure 4) to ensure that they are growing as anticipated. GE will measure and record the size of all trees and shrubs subject to inspection and record the information on the inspection checklist. If loss of trees and/or shrubs (less than 100% survivability) is observed, GE will replant the lost trees and/or shrubs. When trees or shrubs are replanted, GE will revise Figure 4 to include an inventory of the original plantings as well as the species, the installation date, and the size at the time of replanting of any replanted trees or shrubs. The revised Figure 4 will be submitted to EPA and serve as the basis for the next inspection. If tree or shrub replacement is required, the monitoring duration of two years will be re-set for the replanted trees and/or shrubs in each planting area. GE will equip replanted trees and shrubs with a tag identifying the species of tree or shrub, the installation date, and the size at the time of installation. Any replanted trees or shrubs will meet applicable requirements from the previously approved planting plan for species and type and be installed in accordance with approved planting plans. In addition, GE will inspect tree cages, tree guards, and tree stakes (where present) to ensure that these items are

functioning to protect the trees from damage. If GE determines that tree cages should be left in place longer than the two-year monitoring period, GE will inspect the tree cages in conjunction with future annual inspections until such time as the tree cages are removed.

In addition to the above inspections, GE will conduct annual inspections of the one area within this RAA that was evaluated as paved and that contains PCB concentrations in the top foot of soil under the pavement that would exceed the NTE levels for that particular type of property. That area is located on Parcel K10-11-5 and is identified in pink on Figure 3.

GE will conduct maintenance and repair of site conditions and features as necessary to address any problematic conditions noted during the above-described inspections (or otherwise observed by GE or by EPA or MDEP and communicated to GE). Examples of such maintenance/repair activities that may be identified and conducted include, but are not limited to, placement of additional topsoil in areas of erosion or settlement, additional planting or seeding (if needed) to replace dead or dying vegetation, removal of all vegetation that appears to be adversely affecting the survival of the vegetation planted (for example, removal of vines growing on and affecting the survival of replanted trees), removal of tree limbs growing through tree cages which would adversely affect growth of the tree, and repair or replacement of other components of the backfilled/restored areas exhibiting deficiencies or potential problems. For the paved area subject to inspection (identified in pink on Figure 3), GE will repair areas where, based on the visual inspection, pavement is clearly broken up and/or missing and soil is clearly visible. Typically, pavement repairs will be made at discrete areas where more than one square foot of soil is exposed.

These inspection activities will include review of Figures 3 and 4 of this Final Completion Report (as well as the as-built survey drawings provided in Appendix C) and will utilize the Inspection Summary and Checklist provided in Appendix I. After each inspection, a report will be prepared and submitted to EPA within 30 days of the completion of the inspection. These reports will include copies of completed inspection checklists and will document the inspection and maintenance activities performed since the submittal of the previous report and future inspection and maintenance activities. In the event that GE is denied access to perform the inspection or maintenance activities described herein at a specific property, GE will notify EPA within 14 days of the date on which access was denied.

### **7.3 Annual Conditional Solution Inspections**

In addition to the inspections for the remediation activities performed at Former Oxbow Areas J and K, additional inspection activities are required by the CD for the properties at which Conditional Solutions have been implemented – namely, Parcels K10-13-1, K10-11-1, K10-11-2, and K10-11-3, including the recreational areas within those properties.

To meet these requirements, GE will perform annual inspections of these properties using the procedures outlined in Paragraphs 36 and 38 and Appendix Q of the CD, with modifications on which GE and EPA have agreed in this report for such inspections. These activities will include a document review and a visual site inspection as described below.

Prior to the visual site inspection, GE will review the most recent property records at the Pittsfield Tax Assessor's Office and the property deeds at the Berkshire Middle District Registry of Deeds to determine if there has been a change in ownership of any of the parcels. If there has been a change in ownership, GE will provide notice to the new owner of the Conditional Solution implemented at the property. In addition, GE will review this Final Completion Report, including the as-built survey drawings included in Appendix C, which depict current site features and topography (and any alternative, more recent plan that GE proposes to use for evaluating surface grade changes), and any subsequent work plan(s) approved and implemented pursuant to Paragraph 35 of the CD.

GE will then conduct a visual site inspection of each property (to the extent possible given any access limitations) to evaluate whether there is any evidence that any of the following have occurred since the prior inspection:

- Any change in activities or uses of the property that would be potentially inconsistent with the land use for which the Conditional Solution was implemented (i.e., recreational use for Recreational Areas R2, R3A, and R3B and commercial use for the commercial portions of Parcels K10-13-1, K10-11-1, K10-11-2, and K10-11-3);
- Installation of a new utility or repair or replacement of an existing utility that involved disturbance of soil;
- Any excavations, construction, or other activities or conditions that resulted in the disturbance of 10 cy of soil or greater, regardless of depth; and
- If any of the activities identified in the two preceding bullets are noted, any alteration of the surface grade, compared to that shown in the as-built survey drawings included in Appendix C (or any more recent plan that GE proposes and EPA approves).

After all observations have been made, GE will complete, for each property, the Conditional Solution Annual Inspection Checklist provided in Appendix J, and will prepare and submit a written inspection report to EPA and MDEP, as described further below.

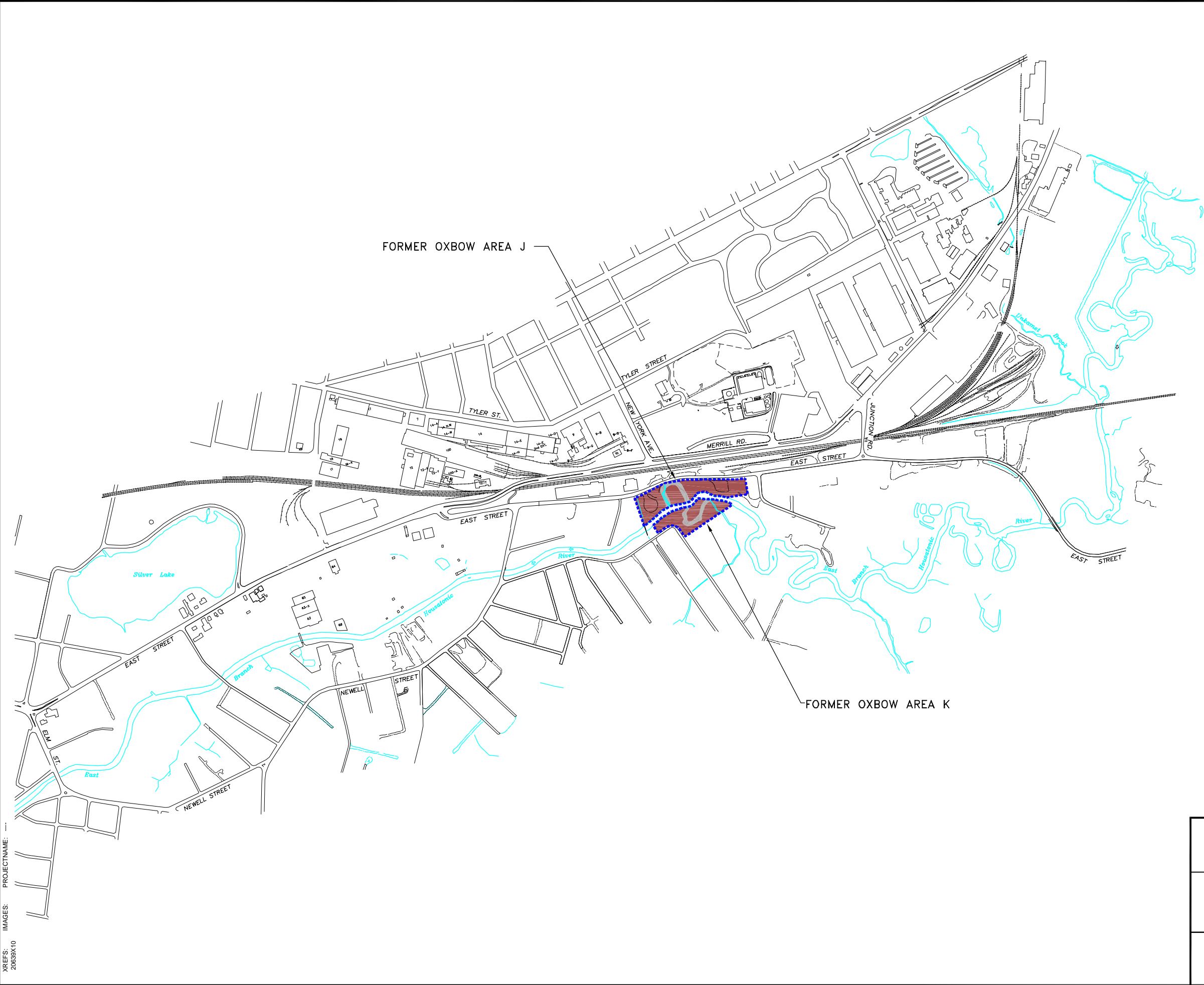


GE conducted the first Conditional Solution inspection of the applicable properties on November 29, 2007. For that inspection, since the as-built survey drawings included in this Final Completion Report were not available, GE reviewed the Final Work Plan, which described the Conditional Solutions, as well as the technical drawings from the Final Work Plan Addendum which depict anticipated post-remediation site features and topography. That inspection also included a visual inspection of each property subject to a Conditional Solution to evaluate whether any of the above-listed conditions had occurred since completion of the remediation activities and implementation of the Conditional Solutions. GE submitted a report on this first Conditional Solution inspection at Former Oxbow Areas J and K to EPA on December 21, 2007. As indicated therein, there was no change in ownership of any of the properties. Results of the November 2007 inspection indicated that a monitoring well was installed on Parcel K10-11-2. This well was installed by GE on November 27, 2007 with EPA approval. No evidence of changes to the surface grade was evident. No other activities or conditions listed above were observed at the properties subject to inspection since the implementation of the Conditional Solutions.

GE will continue to conduct annual inspections of the properties at which Conditional Solutions have been implemented. The next such inspection is anticipated to occur in November 2008. These inspection activities will be performed in accordance with the procedures specified above and will utilize the Conditional Solution Annual Inspection Checklist provided in Appendix J. A report will be prepared and submitted to EPA and MDEP within 30 days of completion of each such future inspection. That report will include a description of the current ownership of each property, a summary of the findings for each property (including a description and the basis for identification, based on visual inspection in conjunction with the document review, of any known or suspected changes in the activities or uses that would involve any of the activities or uses listed above), and copies of the completed Annual Inspection Checklists indicating that the inspections included all required criteria. Any determination of whether changes in activities and uses that have occurred at a property would in fact be inconsistent with the land uses for which the Conditional Solution was implemented or would involve unacceptable exposure conditions will be made by EPA and/or MDEP.

ARCADIS

**Figures**

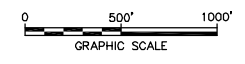


**LEGEND:**

- APPROXIMATE REMOVAL ACTION AREA BOUNDARY
- FORMER OXBOW AREAS J AND K REMOVAL ACTION AREA
- FORMER OXBOW/LOW-LYING AREA

**NOTES:**

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

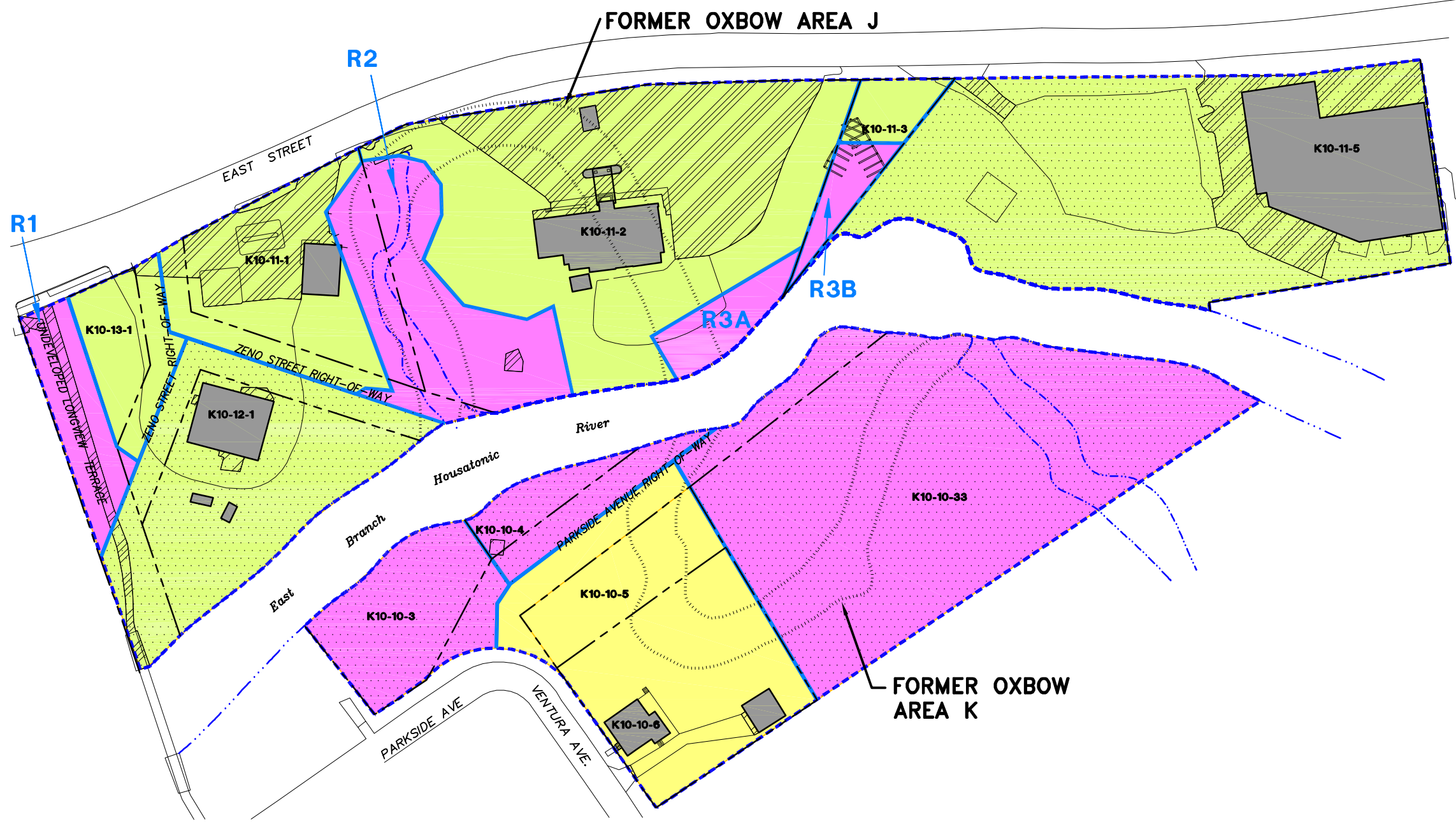


GENERAL ELECTRIC COMPANY  
 PITTSFIELD, MASSACHUSETTS  
**FINAL COMPLETION REPORT FOR FORMER  
 OXBOW AREAS J AND K REMOVAL ACTION**

**REMOVAL ACTION AREA**

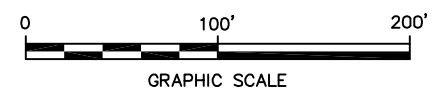


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**LEGEND:**

- APPROXIMATE REMOVAL ACTION AREA BOUNDARY (EXCLUDING ACTUAL RIVERBANK AREAS)
- PROPERTY ID
- PROPERTY BOUNDARY
- RECREATIONAL AVERAGING AREA ID
- AVERAGING AREA BOUNDARY
- EDGE OF WATER
- STREAMS WITH INTERMITTENT FLOW
- FORMER OXBOW/LOW-LYING AREA
- RECREATIONAL PROPERTY (NON-GE-OWNED)
- RECREATIONAL PROPERTY (NON-GE-OWNED) EVALUATED UNDER RESIDENTIAL SCENARIO
- COMMERCIAL/INDUSTRIAL PROPERTY (NON-GE-OWNED)
- COMMERCIAL/INDUSTRIAL PROPERTY (NON-GE-OWNED) EVALUATED UNDER RESIDENTIAL SCENARIO
- RESIDENTIAL PROPERTY
- BUILDING OR PERMANENT STRUCTURE
- PAVED AREA



- NOTES:**
1. BASE MAP MODIFIED FROM SURVEY DRAWINGS NOS. GE-1080-1 (6/25/04) AND GE-1080-3 (11/18/04) BY HILL ENGINEERS, ARCHITECTS AND PLANNERS, INC. AND FROM PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC. - FLOWN IN APRIL 1990.
  2. EASEMENTS AND PROPERTY LINES DIGITIZED FROM COPIES OF CITY OF PITTSFIELD TAX ASSESSORS MAPS AND ARE APPROXIMATE.
  3. FORMER RIVER CHANNEL AND OXBOW/LOW-LYING AREAS DELINEATED USING THE CITY OF PITTSFIELD'S RECHANNELIZATION MAPPING, 1940.

GENERAL ELECTRIC COMPANY  
 PITTSFIELD, MASSACHUSETTS  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**

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**SITE PLAN**

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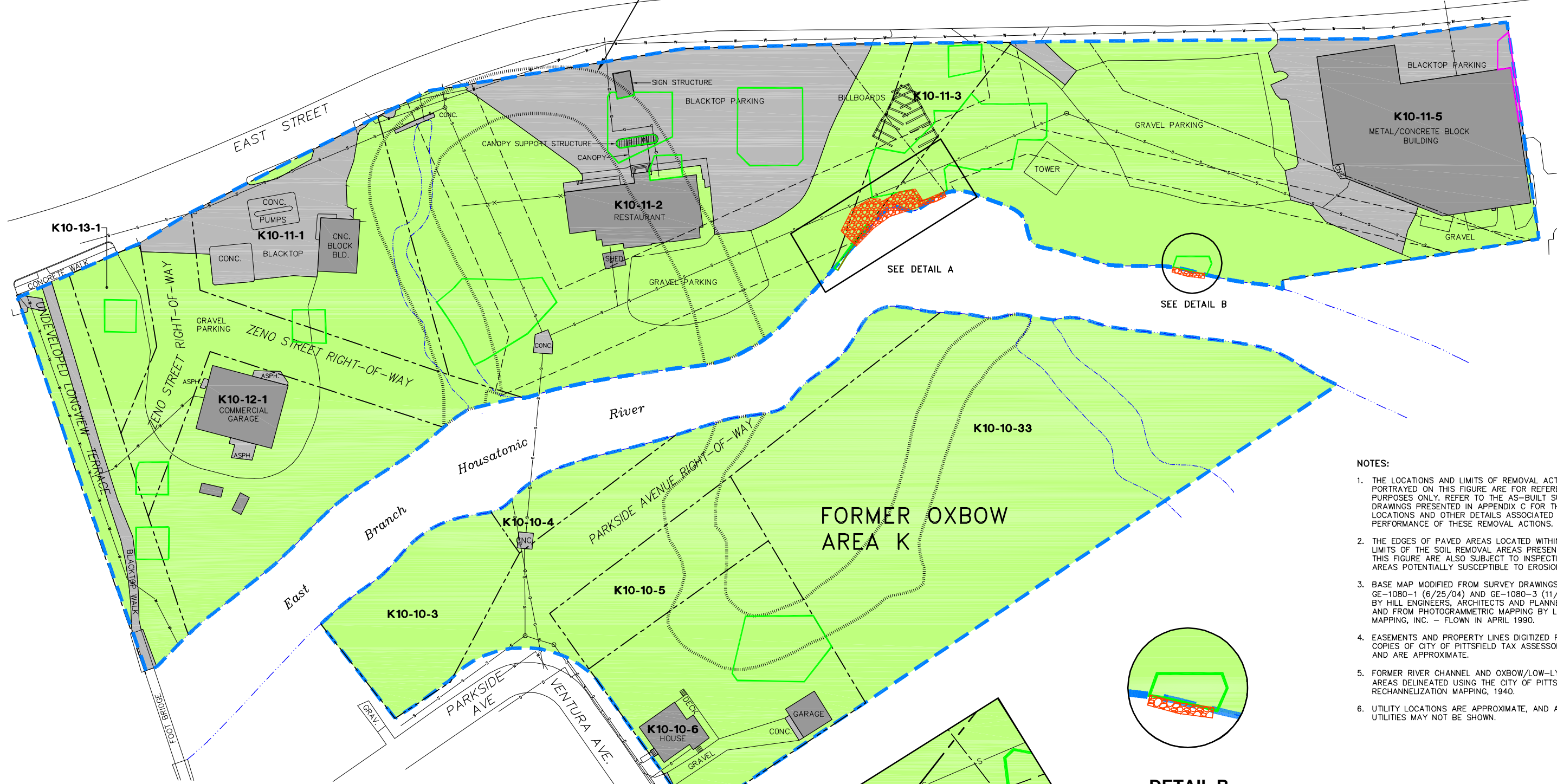
**ARCADIS**

FIGURE  
**2**

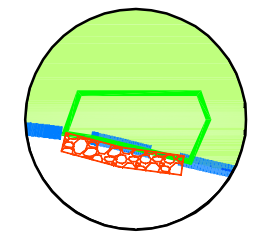


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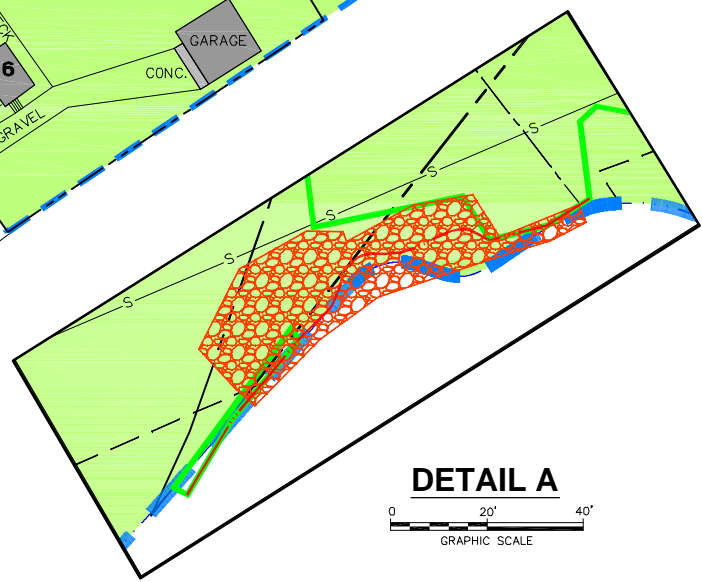
# FORMER OXBOW AREA J



- NOTES:**
1. THE LOCATIONS AND LIMITS OF REMOVAL ACTIONS PORTRAYED ON THIS FIGURE ARE FOR REFERENCE PURPOSES ONLY. REFER TO THE AS-BUILT SURVEY DRAWINGS PRESENTED IN APPENDIX C FOR THE LOCATIONS AND OTHER DETAILS ASSOCIATED WITH THE PERFORMANCE OF THESE REMOVAL ACTIONS.
  2. THE EDGES OF PAVED AREAS LOCATED WITHIN THE LIMITS OF THE SOIL REMOVAL AREAS PRESENTED ON THIS FIGURE ARE ALSO SUBJECT TO INSPECTION AS AREAS POTENTIALLY SUSCEPTIBLE TO EROSION.
  3. BASE MAP MODIFIED FROM SURVEY DRAWINGS Nos. GE-1080-1 (6/25/04) AND GE-1080-3 (11/18/04) BY HILL ENGINEERS, ARCHITECTS AND PLANNERS, INC. AND FROM PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC. - FLOWN IN APRIL 1990.
  4. EASEMENTS AND PROPERTY LINES DIGITIZED FROM COPIES OF CITY OF PITTSFIELD TAX ASSESSORS MAPS AND ARE APPROXIMATE.
  5. FORMER RIVER CHANNEL AND OXBOW/LOW-LYING AREAS DELINEATED USING THE CITY OF PITTSFIELD'S RECHANNELIZATION MAPPING, 1940.
  6. UTILITY LOCATIONS ARE APPROXIMATE, AND ALL UTILITIES MAY NOT BE SHOWN.



**DETAIL B**  
0 20' 40'  
GRAPHIC SCALE



**DETAIL A**  
0 20' 40'  
GRAPHIC SCALE

**LEGEND**

- |  |   |  |   |
|--|---|--|---|
|  | APPROXIMATE REMOVAL ACTION AREA BOUNDARY                            |  | FENCE   |
|  | PROPERTY LINE   |  | APPROXIMATE SEWER LOCATION  |
|  | PROPERTY ID   |  | APPROXIMATE STORM DRAIN LOCATION  |
|  | WESTERN MASS. ELECTRIC CO. EASEMENT                                 |  | APPROXIMATE WATER MAIN LOCATION   |
|  | SEWER EASEMENT  |  | APPROXIMATE GAS LINE LOCATION   |
|  | STREAMS WITH INTERMITTENT FLOW                                      |  | LIMITS OF SOIL REMOVAL TO ACHIEVE PERFORMANCE STANDARDS   |
|  | CURRENT EDGE OF WATER (HILL SURVEYS, 7/12/06, 7/14/06, AND 7/20/06) |  | AREA OF PAVEMENT SUBJECT TO INSPECTION DUE TO THE PRESENCE OF PCBs >10 PPM IN THE TOP FOOT OF UNDERLYING SOIL |
|  | APPROXIMATE FORMER OXBOW/LOW-LYING AREA                             |  | CANOPY SUPPORT STRUCTURE NOT SUBJECT TO INSPECTION  |
|  | BUILDING OR PERMANENT STRUCTURE                                     |  | RIPRAP  |
|  | PAVED AREA  |  |   |
|  | UNPAVED AREA  |  |   |

GENERAL ELECTRIC COMPANY  
 PITTSFIELD, MASSACHUSETTS  
**FINAL COMPLETION REPORT FOR FORMER  
 OXBOW AREAS J AND K REMOVAL ACTION**

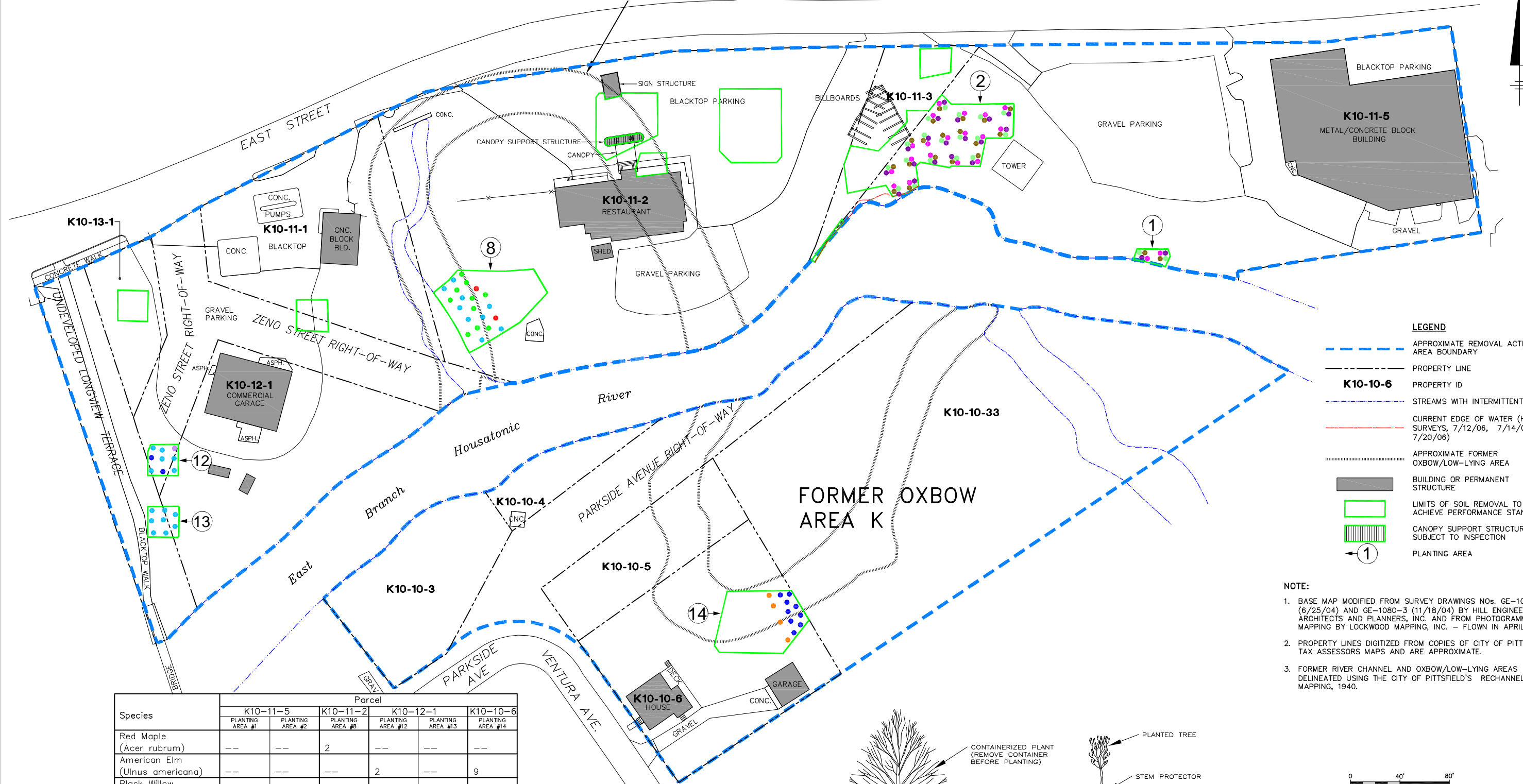
**AREAS/ITEMS SUBJECT TO INSPECTION**



FIGURE  
**3**

CITY:SYR DIV:GROUP:R5 DB:DMW:LAF:DMW LDD:MW PIC:(Opt) PM:(Rep) TM:(Opt) LY:(Opt)ON="OFF"-REF\*  
 G:\CAD\GE-CAD\N-ACT\B002639\00000001\DWG\PLANT\20639G02.DWG LAYOUT: 4. SAVED: 4/29/2008 3:58 PM ACADVER: 17.05 (LMS TECH) PAGES:SETUP: PLT:FULL:CTB PLOTTED: 4/30/2008 9:44 AM BY: WODARCZYK, DAVID  
 XREFS: IMAGES: PROJECTNAME: 20639X01 20639X00

# FORMER OXBOW AREA J



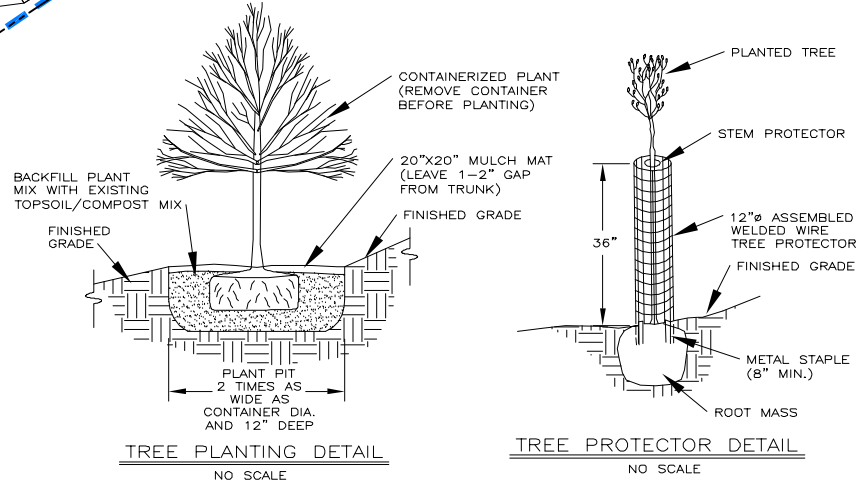
- LEGEND**
- - - - - APPROXIMATE REMOVAL ACTION AREA BOUNDARY
  - - - - - PROPERTY LINE
  - K10-10-6** PROPERTY ID
  - STREAMS WITH INTERMITTENT FLOW
  - CURRENT EDGE OF WATER (HILL SURVEYS, 7/12/06, 7/14/06, AND 7/20/06)
  - - - - - APPROXIMATE FORMER OXBOW/LOW-LYING AREA
  - BUILDING OR PERMANENT STRUCTURE
  - LIMITS OF SOIL REMOVAL TO ACHIEVE PERFORMANCE STANDARDS
  - CANOPY SUPPORT STRUCTURE NOT SUBJECT TO INSPECTION
  - 1 PLANTING AREA

- NOTE:**
1. BASE MAP MODIFIED FROM SURVEY DRAWINGS NOS. GE-1080-1 (6/25/04) AND GE-1080-3 (11/18/04) BY HILL ENGINEERS, ARCHITECTS AND PLANNERS, INC. AND FROM PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC. - FLOWN IN APRIL 1990.
  2. PROPERTY LINES DIGITIZED FROM COPIES OF CITY OF PITTSFIELD TAX ASSESSORS MAPS AND ARE APPROXIMATE.
  3. FORMER RIVER CHANNEL AND OXBOW/LOW-LYING AREAS DELINEATED USING THE CITY OF PITTSFIELD'S RECHANNELIZATION MAPPING, 1940.

Species	Parcel					
	K10-11-5 PLANTING AREA #1	K10-11-5 PLANTING AREA #2	K10-11-2 PLANTING AREA #8	K10-12-1 PLANTING AREA #12 PLANTING AREA #13		K10-10-6 PLANTING AREA #14
Red Maple (Acer rubrum)	---	---	2	---	---	---
American Elm (Ulmus americana)	---	---	---	2	---	9
Black Willow (Salix nigra)	---	---	10	---	---	---
Eastern Cottonwood (Populus deltoides)	---	---	9	6	8	---
White Ash (Fraxinus americana)	---	---	---	1	---	---
Eastern Hemlock (Tsuga canadensis)	---	---	---	---	---	4
Silky Dogwood* (Cornus amomum)	2	18	---	---	---	---
Choke Cherry* (Aronia melanocarpa)	2	18	---	---	---	---
Northern Arrowwood* (Viburnum dentatum)	2	18	---	---	---	---
Winterberry* (Ilex verticillata)	2	18	---	---	---	---

\* SHRUBS PLANTED IN CLUMPS OF 4 PLANTS

- SPECIES**
- RED MAPLE
  - AMERICAN ELM
  - BLACK WILLOW
  - EASTERN COTTONWOOD
  - WHITE ASH
  - EASTERN HEMLOCK
  - SILKY DOGWOOD
  - CHOKY CHERRY
  - NORTHERN ARROWWOOD
  - WINTERBERRY
- SYMBOL**
- - 
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GENERAL ELECTRIC COMPANY  
 PITTSFIELD, MASSACHUSETTS  
**FINAL COMPLETION REPORT FOR FORMER  
 OXBOW AREAS J AND K REMOVAL ACTION**

**SUMMARY OF TREE/SHRUB  
 RESTORATION ACTIVITIES**

**ARCADIS**

**FIGURE  
 4**

ARCADIS

**Appendices**

**Appendix A**

Summary of Analytical Data for  
Samples Used in RD/RA  
Evaluations and Associated  
Sample Location Figure



**TABLE A-1  
ADDITIONAL SUPPLEMENTAL SOIL SAMPLING RESULTS FOR PCBs**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
<b>Parcel K10-10-2</b>						
K10-10-2-SB-1	0-1	4/11/2006	ND(0.039)	ND(0.039)	0.22	0.22
	1-3	4/11/2006	ND(0.042)	ND(0.042)	0.49	0.49
K10-10-2-SB-2	0-1	4/11/2006	ND(0.044) [ND(0.044)]	ND(0.044) [ND(0.044)]	0.24 [0.24]	0.24 [0.24]
	1-3	4/11/2006	ND(0.040)	ND(0.040)	0.11	0.11
<b>Parcel K10-10-3</b>						
K10-10-3-ROW-1	6-10	4/11/2006	ND(0.036)	0.72	0.34	1.06
RAA15-I6.5	0-1	2/6/2006	ND(0.041)	ND(0.041)	0.16	0.16
RAA15-I7	0-1	2/6/2006	ND(0.043)	ND(0.043)	0.060	0.060
RAA15-I7.5	0-1	2/6/2006	ND(0.047)	ND(0.047)	0.068	0.068
RAA15-I8	0-1	2/6/2006	ND(0.040)	ND(0.040)	0.17	0.17
RAA15-J6.5	0-1	2/6/2006	ND(0.040)	ND(0.040)	0.18	0.18
RAA15-J7	1-3	2/6/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	3-6	2/6/2006	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)
	6-10	2/6/2006	ND(0.22)	ND(0.22)	3.6	3.6
	10-15	2/6/2006	ND(0.044)	ND(0.044)	1.0	1.0
RAA15-J7.5	0-1	2/6/2006	ND(0.045)	ND(0.045)	0.087	0.087
RAA15-K5.5	0-1	2/6/2006	ND(0.041)	ND(0.041)	0.22	0.22
RAA15-K6	0-1	2/6/2006	ND(0.045)	ND(0.045)	0.27	0.27
RAA15-K6.5	0-1	2/6/2006	ND(0.050)	ND(0.050)	0.26	0.26
RAA15-K7	0-1	2/6/2006	ND(0.061)	ND(0.061)	0.33	0.33
RAA15-K8	0-1	2/6/2006	ND(0.041)	ND(0.041)	0.13	0.13
RAA15-L5	1-3	2/6/2006	ND(0.23)	ND(0.23)	4.1	4.1
	3-6	2/6/2006	ND(0.051)	ND(0.051)	0.52	0.52
	6-10	2/6/2006	ND(0.042)	ND(0.042)	0.068	0.068
	10-15	2/6/2006	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA15-L6	1-3	2/6/2006	ND(0.044)	ND(0.044)	0.11	0.11
	3-6	2/6/2006	ND(0.056) [ND(0.048)]	ND(0.056) [ND(0.048)]	0.22 [0.12]	0.22 [0.12]
	6-10	2/6/2006	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	10-15	2/6/2006	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA15-L6.5	0-1	2/6/2006	ND(0.042)	ND(0.042)	0.12	0.12
RAA15-L7	1-3	2/6/2006	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]
	3-6	2/6/2006	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	6-10	2/6/2006	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	10-15	2/6/2006	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA15-L8	1-3	2/6/2006	ND(0.042)	0.90	0.40	1.3
	3-6	2/6/2006	ND(0.40)	3.2	1.5	4.7
	6-10	2/6/2006	ND(0.38)	4.2	2.2	6.4
	10-15	2/6/2006	ND(0.038)	0.27	0.14	0.41
RAA15-L8S	0-1	4/11/2006	ND(0.043)	ND(0.043)	0.21	0.21
	3-6	4/11/2006	ND(0.041)	0.95	0.37	1.32
	6-8	4/11/2006	ND(0.47)	3.4	1.8	5.2
RAA15-M6	0-1	2/6/2006	ND(0.042)	ND(0.042)	0.39	0.39
RAA15-M6.5	0-1	2/6/2006	ND(0.039)	ND(0.039)	0.074	0.074
RAA15-N7	1-3	2/6/2006	ND(0.038)	ND(0.038)	0.030 J	0.030 J
	3-6	2/6/2006	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	6-10	2/6/2006	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	10-15	2/6/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
<b>Parcel K10-10-4</b>						
RAA15-FG13	0-1	2/6/2006	ND(0.049)	ND(0.049)	0.16	0.16
RAA15-FG14	0-1	2/6/2006	ND(0.052)	ND(0.052)	0.13	0.13
RAA15-G10	0-1	2/6/2006	ND(0.045)	ND(0.045)	0.10	0.10
RAA15-G12	0-1	2/6/2006	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
RAA15-G13	1-3	2/6/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
	3-6	2/6/2006	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)
	6-10	2/6/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
	10-15	2/6/2006	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
RAA15-GH8.5	0-1	2/6/2006	ND(0.039)	0.18	0.28	0.46
RAA15-GH9	0-1	2/6/2006	ND(0.042)	ND(0.042)	0.096	0.096
RAA15-GH10	0-1	2/6/2006	ND(0.044)	ND(0.044)	0.18	0.18
RAA15-GH11	0-1	2/6/2006	ND(0.042)	ND(0.042)	0.12	0.12

**TABLE A-1  
ADDITIONAL SUPPLEMENTAL SOIL SAMPLING RESULTS FOR PCBs**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA15-H8	1-3	2/7/2006	ND(0.040) [ND(0.041)]	ND(0.040) [ND(0.041)]	0.029 J [0.037 J]	0.029 J [0.037 J]
	3-6	2/7/2006	ND(0.44)	ND(0.44)	8.9	8.9
	6-10	2/7/2006	ND(0.044)	ND(0.044)	0.14	0.14
	10-15	2/7/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA15-H8.5	0-1	2/6/2006	ND(0.039)	ND(0.039)	0.088	0.088
RAA15-H9	1-3	2/7/2006	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
	3-6	2/7/2006	ND(0.043) [ND(0.042)]	ND(0.043) [ND(0.042)]	ND(0.043) [ND(0.042)]	ND(0.043) [ND(0.042)]
	6-10	2/7/2006	ND(0.078)	ND(0.078)	ND(0.078)	ND(0.078)
	10-15	2/7/2006	ND(0.059)	ND(0.059)	ND(0.059)	ND(0.059)
RAA15-H10	0-1	2/6/2006	ND(0.041)	ND(0.041)	0.12	0.12
RAA15-I8.5	0-1	2/6/2006	ND(0.042)	ND(0.042)	0.052	0.052
RAA15-I9	0-1	2/6/2006	ND(0.041)	ND(0.041)	0.41	0.41
<b>Parcel K10-10-33</b>						
RAA15-E17.5	0-1	2/7/2006	ND(0.044)	ND(0.044)	0.064	0.064
RAA15-E18.5	0-1	2/7/2006	ND(0.039)	ND(0.039)	0.22	0.22
RAA15-E19	1-3	2/7/2006	ND(0.042)	ND(0.042)	0.20	0.20
	3-6	2/7/2006	ND(0.044)	ND(0.044)	0.20	0.20
	6-10	2/7/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
	10-15	2/7/2006	ND(0.043) [ND(0.044)]	ND(0.043) [ND(0.044)]	ND(0.043) [ND(0.044)]	ND(0.043) [ND(0.044)]
RAA15-E19.5	0-1	2/7/2006	ND(0.045)	ND(0.045)	0.39	0.39
RAA15-E20A	0-1	2/7/2006	ND(0.048)	ND(0.048)	0.23	0.23
RAA15-E20.5	0-1	2/8/2006	ND(0.043)	ND(0.043)	0.12	0.12
RAA15-E21	1-3	2/8/2006	ND(0.040)	ND(0.040)	0.11	0.11
	3-6	2/8/2006	ND(0.042)	ND(0.042)	0.093	0.093
	6-10	2/8/2006	ND(0.047)	ND(0.047)	0.52	0.52
	10-15	2/8/2006	ND(0.11) J	ND(0.11) J	ND(0.11) J	ND(0.11) J
RAA15-E21.5	0-1	2/8/2006	ND(0.040)	ND(0.040)	0.18	0.18
RAA15-EF17	0-1	2/7/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA15-EF17.5	0-1	2/7/2006	ND(0.042) [ND(0.042)]	ND(0.042) [ND(0.042)]	0.13 [0.11]	0.13 [0.11]
RAA15-EF18	0-1	2/7/2006	ND(0.044)	ND(0.044)	0.13	0.13
RAA15-EF18.5	0-1	2/7/2006	ND(0.048)	ND(0.048)	0.55	0.55
RAA15-EF19	0-1	2/7/2006	ND(0.043)	ND(0.043)	0.30	0.30
RAA15-EF19.5	0-1	2/7/2006	ND(0.044)	ND(0.044)	0.40	0.40
RAA15-EF21	0-1	2/8/2006	ND(0.045)	ND(0.045)	0.066	0.066
RAA15-EF21.5	0-1	2/8/2006	ND(0.045)	ND(0.045)	0.11	0.11
RAA15-EF22.5	0-1	2/8/2006	ND(0.045)	ND(0.045)	0.082	0.082
RAA15-EF23.5	0-1	2/8/2006	ND(0.039)	ND(0.039)	0.26	0.26
RAA15-EF24	0-1	2/8/2006	ND(0.044) [ND(0.045)]	ND(0.044) [ND(0.045)]	0.17 [0.17]	0.17 [0.17]
RAA15-F16	0-1	2/7/2006	ND(0.050)	0.094	0.15	0.244
RAA15-F17	1-3	2/7/2006	ND(0.050) J	ND(0.050) J	0.46 J	0.46 J
	3-6	2/7/2006	ND(0.047)	ND(0.047)	0.065	0.065
	6-10	2/7/2006	ND(0.043)	ND(0.043)	0.037 J	0.037 J
	10-15	2/7/2006	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
RAA15-F17.5	0-1	2/7/2006	ND(0.053)	ND(0.053)	0.46	0.46
RAA15-F18	1-3	2/7/2006	ND(0.044)	ND(0.044)	0.083	0.083
	3-6	2/7/2006	ND(0.040)	ND(0.040)	0.20	0.20
	6-10	2/7/2006	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)
	10-15	2/7/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
RAA15-F18.5	0-1	2/7/2006	ND(0.050)	ND(0.050)	0.49	0.49
RAA15-F19	1-3	2/8/2006	ND(4.8)	ND(4.8)	57	57
	3-6	2/8/2006	ND(0.44)	ND(0.44)	9.6	9.6
	6-10	2/8/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	10-15	2/8/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA15-F19.5	0-1	2/7/2006	ND(0.046)	0.089	0.19	0.279
RAA15-F20	1-3	2/8/2006	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
	3-6	2/8/2006	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
	6-10	2/8/2006	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)
	10-15	2/8/2006	ND(0.089) [ND(0.086)]	ND(0.089) [ND(0.086)]	ND(0.089) [ND(0.086)]	ND(0.089) [ND(0.086)]
RAA15-F20.5	0-1	2/7/2006	ND(0.054)	ND(0.054)	0.21	0.21

**TABLE A-1  
ADDITIONAL SUPPLEMENTAL SOIL SAMPLING RESULTS FOR PCBs**

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GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA15-F21	1-3	2/8/2006	ND(0.044)	ND(0.044)	0.023 J	0.023 J
	3-6	2/8/2006	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
	6-10	2/8/2006	ND(0.049)	ND(0.049)	0.062	0.062
	10-15	2/8/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
RAA15-F21.5	0-1	2/8/2006	ND(0.048)	ND(0.048)	0.20	0.20
RAA15-F22	1-3	2/8/2006	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
	3-6	2/8/2006	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)
	6-10	2/8/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
	10-15	2/8/2006	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
RAA15-F22.5	0-1	2/8/2006	ND(0.048)	ND(0.048)	0.20	0.20
RAA15-F23	1-3	2/8/2006	ND(0.045)	ND(0.045)	0.051	0.051
	3-6	2/8/2006	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)
	6-10	2/8/2006	ND(0.054)	ND(0.054)	ND(0.054)	ND(0.054)
	10-15	2/8/2006	ND(0.065)	ND(0.065)	ND(0.065)	ND(0.065)
RAA15-F23.5	0-1	2/8/2006	ND(0.048)	ND(0.048)	0.13	0.13
RAA15-F24	1-3	2/8/2006	ND(0.044)	ND(0.044)	0.079	0.079
	3-6	2/8/2006	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
	6-10	2/8/2006	ND(0.043) J [ND(0.043)]	ND(0.043) J [ND(0.043)]	ND(0.043) J [ND(0.043)]	ND(0.043) J [ND(0.043)]
	10-15	2/8/2006	ND(0.078)	ND(0.078)	ND(0.078)	ND(0.078)
RAA15-F24.5	0-1	2/8/2006	ND(0.048)	ND(0.048)	0.034 J	0.034 J
RAA15-FG15	0-1	2/7/2006	ND(0.039)	ND(0.039)	0.26	0.26
RAA15-FG16	0-1	2/7/2006	ND(0.044)	ND(0.044)	0.075	0.075
RAA15-FG17	0-1	2/7/2006	ND(0.041)	ND(0.041)	0.053	0.053
RAA15-FG17.5	0-1	2/7/2006	ND(0.038)	ND(0.038)	0.064	0.064
RAA15-FG18	0-1	2/7/2006	ND(0.040)	ND(0.040)	0.049	0.049
RAA15-FG18.5	0-1	2/7/2006	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
RAA15-FG19	0-1	2/7/2006	ND(0.043)	ND(0.043)	0.069	0.069
RAA15-FG19.5	0-1	2/7/2006	ND(0.046)	ND(0.046)	0.097	0.097
RAA15-FG20	0-1	2/7/2006	ND(0.047)	ND(0.047)	0.26	0.26
RAA15-FG20.5	0-1	2/7/2006	ND(0.046)	ND(0.046)	0.26	0.26
RAA15-FG21	0-1	2/7/2006	ND(0.049)	ND(0.049)	0.31	0.31
RAA15-FG21.5	0-1	2/7/2006	ND(0.069)	0.46	0.43	0.89
RAA15-FG22	0-1	2/8/2006	ND(0.050)	ND(0.050)	0.11	0.11
RAA15-FG22.5	0-1	2/8/2006	ND(0.050)	ND(0.050)	0.078	0.078
RAA15-FG23	0-1	2/8/2006	ND(0.049)	ND(0.049)	0.14	0.14
RAA15-FG23.5	0-1	2/8/2006	ND(0.048)	ND(0.048)	0.050	0.050
RAA15-FG24	0-1	2/8/2006	ND(0.050)	ND(0.050)	0.039 J	0.039 J
RAA15-FG24.5	0-1	2/8/2006	ND(0.048)	ND(0.048)	0.20	0.20
RAA15-G14	0-1	2/7/2006	ND(0.040)	ND(0.040)	0.059	0.059
RAA15-G16	0-1	2/7/2006	ND(0.045)	ND(0.045)	0.069	0.069
RAA15-G17	1-3	2/7/2006	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
	3-6	2/7/2006	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)
	6-10	2/7/2006	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)
	10-15	2/7/2006	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
RAA15-G17.5	0-1	2/7/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
RAA15-G18	0-1	2/7/2006	ND(0.041)	ND(0.041)	0.063	0.063
	1-3	2/7/2006	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
	3-6	2/7/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
	6-10	2/7/2006	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
RAA15-G18.5	0-1	2/7/2006	ND(0.043)	ND(0.043)	0.055	0.055
RAA15-G19	10-15	2/7/2006	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)
RAA15-G19.5	0-1	2/7/2006	ND(0.048)	ND(0.048)	0.082	0.082
RAA15-G20.5	0-1	2/7/2006	ND(0.047)	ND(0.047)	0.17	0.17
RAA15-G21	1-3	2/8/2006	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)
	3-6	2/8/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
	6-10	2/8/2006	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)
	10-15	2/8/2006	ND(0.066)	ND(0.066)	ND(0.066)	ND(0.066)
RAA15-G21.5	0-1	2/8/2006	ND(0.049)	0.61	0.56	1.17
RAA15-G22	0-1	2/8/2006	ND(0.050)	ND(0.050)	0.28	0.28
RAA15-G22.5	0-1	2/8/2006	ND(0.050)	ND(0.050)	0.21	0.21

**TABLE A-1  
ADDITIONAL SUPPLEMENTAL SOIL SAMPLING RESULTS FOR PCBs**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA15-G23	1-3	2/8/2006	ND(0.045) J [ND(0.044)]	ND(0.045) J [ND(0.044)]	ND(0.045) J [ND(0.044)]	ND(0.045) J [ND(0.044)]
	3-6	2/8/2006	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	6-10	2/8/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	10-15	2/8/2006	ND(0.079)	ND(0.079)	ND(0.079)	ND(0.079)
RAA15-G23.5	0-1	2/8/2006	ND(0.050)	ND(0.050)	0.072	0.072
RAA15-GH14	0-1	2/7/2006	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	0.050 [0.045]	0.050 [0.045]
RAA15-GH15	0-1	2/7/2006	ND(0.043)	ND(0.043)	0.12	0.12
RAA15-GH16	0-1	2/7/2006	ND(0.046)	ND(0.046)	0.089	0.089
RAA15-GH17	0-1	2/7/2006	ND(0.041)	ND(0.041)	0.032 J	0.032 J
RAA15-GH17.5	0-1	2/7/2006	ND(0.041)	ND(0.041)	0.091	0.091
RAA15-GH18	0-1	2/7/2006	ND(0.042)	ND(0.042)	0.039 J	0.039 J
RAA15-GH18.5	0-1	2/7/2006	ND(0.047)	ND(0.047)	0.17	0.17
RAA15-GH19	0-1	2/7/2006	ND(0.052)	ND(0.052)	0.15	0.15
RAA15-GH19.5	0-1	2/7/2006	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)
RAA15-GH20	0-1	2/7/2006	ND(0.046)	ND(0.046)	0.12	0.12
RAA15-GH20.5	0-1	2/7/2006	ND(0.052)	0.18	0.34	0.52
RAA15-GH21	0-1	2/7/2006	ND(0.049)	ND(0.049)	0.20	0.20
RAA15-GH21.5	0-1	2/7/2006	ND(0.049)	ND(0.049)	0.12	0.12
RAA15-GH22.5	0-1	2/8/2006	ND(0.050)	0.54	0.52	1.06
RAA15-H15	1-3	2/7/2006	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)
	3-6	2/7/2006	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
	6-10	2/7/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
	10-15	2/7/2006	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)
RAA15-H16	0-1	2/7/2006	ND(0.039)	ND(0.039)	0.063	0.063
RAA15-H17	1-3	2/7/2006	ND(0.041) [ND(0.041)]	ND(0.041) [ND(0.041)]	ND(0.041) [ND(0.041)]	ND(0.041) [ND(0.041)]
	3-6	2/7/2006	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)
	6-10	2/7/2006	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	10-15	2/7/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA15-H17.5	0-1	2/7/2006	ND(0.040)	ND(0.040)	0.060	0.060
RAA15-H18	1-3	2/7/2006	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	3-6	2/7/2006	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
	6-10	2/7/2006	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	10-15	2/7/2006	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA15-H18.5	0-1	2/7/2006	ND(0.043)	ND(0.043)	0.059	0.059
RAA15-H19	1-3	2/7/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
	3-6	2/7/2006	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)
	6-10	2/7/2006	ND(0.049)	ND(0.049)	ND(0.049)	ND(0.049)
	10-15	2/7/2006	ND(0.065)	ND(0.065)	ND(0.065)	ND(0.065)
RAA15-H19.5	0-1	2/7/2006	ND(0.047)	ND(0.047)	0.097	0.097
RAA15-H20	1-3	2/7/2006	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)
	3-6	2/7/2006	ND(0.066) J	ND(0.066) J	ND(0.066) J	ND(0.066) J
	6-10	2/7/2006	ND(0.13) J	ND(0.13) J	ND(0.13) J	ND(0.13) J
	10-15	2/7/2006	ND(0.064) J	ND(0.064) J	ND(0.064) J	ND(0.064) J
RAA15-H20.5	0-1	2/7/2006	ND(0.049)	ND(0.049)	0.088	0.088
RAA15-H21	1-3	2/7/2006	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)
	3-6	2/7/2006	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
	6-10	2/7/2006	ND(0.057)	ND(0.057)	ND(0.057)	ND(0.057)
	10-15	2/7/2006	ND(0.074)	ND(0.074)	ND(0.074)	ND(0.074)
RAA15-H21.5	0-1	2/7/2006	ND(0.052)	0.30	0.45	0.75
RAA15-I16	0-1	2/7/2006	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
RAA15-I17	0-1	2/7/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
RAA15-I17.5	0-1	2/7/2006	ND(0.041)	ND(0.041)	0.091	0.091
RAA15-I18	0-1	2/7/2006	ND(0.050)	ND(0.050)	0.33	0.33
RAA15-I18.5	0-1	2/7/2006	ND(0.051)	ND(0.051)	0.47	0.47
RAA15-I19	0-1	2/7/2006	ND(0.050)	ND(0.050)	0.23	0.23
RAA15-I19.5	0-1	2/7/2006	ND(0.050)	ND(0.050)	0.16	0.16
RAA15-I20	0-1	2/7/2006	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)
RAA15-I20.5	0-1	2/7/2006	ND(0.050) [ND(0.050)]	ND(0.050) [ND(0.050)]	0.057 [ND(0.050)]	0.057 [ND(0.050)]
RAA15-I21	0-1	2/7/2006	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)
RAA15-J16	0-1	2/7/2006	ND(0.042)	ND(0.042)	0.12	0.12

**TABLE A-1  
ADDITIONAL SUPPLEMENTAL SOIL SAMPLING RESULTS FOR PCBs**

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GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA15-J17	1-3	2/8/2006	ND(0.043)	ND(0.043)	0.029 J	0.029 J
	3-6	2/8/2006	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
	6-10	2/8/2006	ND(0.047)	ND(0.047)	0.033 J	0.033 J
	10-15	2/8/2006	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
RAA15-J17.5	0-1	2/8/2006	ND(0.042)	ND(0.042)	0.085	0.085
RAA15-J18.5	0-1	2/7/2006	ND(0.051)	ND(0.051)	0.19	0.19
RAA15-J19	1-3	2/8/2006	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)
	3-6	2/8/2006	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
	6-10	2/8/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	10-15	2/8/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
RAA15-J19.5	0-1	2/7/2006	ND(0.051)	ND(0.051)	ND(0.051)	ND(0.051)
RAA15-J20.5	0-1	2/7/2006	ND(0.052)	ND(0.052)	0.10	0.10
RAA15-K17	0-1	2/7/2006	ND(0.044)	ND(0.044)	0.12	0.12
RAA15-K17.5	0-1	2/8/2006	ND(0.040)	ND(0.040)	0.12	0.12
RAA15-K18	0-1	2/7/2006	ND(0.050)	ND(0.050)	0.28	0.28
RAA15-K18.5	0-1	2/7/2006	ND(0.056)	ND(0.056)	0.15	0.15
RAA15-K19	0-1	2/7/2006	ND(0.059)	ND(0.059)	0.074	0.074
RAA15-K19.5	0-1	2/7/2006	ND(0.055)	ND(0.055)	ND(0.055)	ND(0.055)
RAA15-L17A	1-3	2/8/2006	ND(0.038)	ND(0.038)	0.023 J	0.023 J
	3-6	2/8/2006	ND(0.038) [ND(0.039)]	ND(0.038) [ND(0.039)]	ND(0.038) [ND(0.039)]	ND(0.038) [ND(0.039)]
	6-10	2/8/2006	ND(0.044)	ND(0.044)	0.025 J	0.025 J
	10-15	2/8/2006	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)
RAA15-L17.5	0-1	2/7/2006	ND(0.045)	ND(0.045)	0.20	0.20
RAA15-L18	1-3	2/9/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
	3-6	2/9/2006	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]	ND(0.039) [ND(0.039)]
	6-10	2/9/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	10-15	2/9/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
RAA15-L18.5	0-1	2/7/2006	ND(0.048)	ND(0.048)	0.052	0.052
RAA15-L19	1-3	2/9/2006	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)
	3-6	2/9/2006	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
	6-10	2/9/2006	ND(0.041) [ND(0.042)]	ND(0.041) [ND(0.042)]	ND(0.041) [ND(0.042)]	ND(0.041) [ND(0.042)]
	10-15	2/9/2006	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
RAA15-M17.5	0-1	2/7/2006	ND(0.043)	ND(0.043)	0.036 J	0.036 J
RAA15-M18	0-1	2/7/2006	ND(0.048)	ND(0.048)	0.032 J	0.032 J
RAA15-N17.5	0-1	2/7/2006	ND(0.045)	ND(0.045)	0.11	0.11
<b>Parcel K10-11-5</b>						
RAA15-A19.5	0-1	1/31/2006	ND(0.039)	ND(0.039)	1.2	1.2
RAA15-A20.5	0-1	1/31/2006	ND(0.040)	0.30	0.83	1.13
RAA15-A21	1-3	2/1/2006	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	3-6	2/1/2006	ND(0.038)	ND(0.038)	0.16	0.16
	6-10	2/1/2006	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	10-15	2/1/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA15-A21.5	0-1	1/31/2006	ND(0.040)	ND(0.040)	1.4	1.4
RAA15-A22.5	0-1	2/3/2006	ND(0.040)	ND(0.040)	0.34	0.34
RAA15-A23	1-3	2/1/2006	ND(0.038) [ND(0.038)]	0.067 [0.087]	0.21 [0.28]	0.277 [0.367]
	3-6	2/1/2006	ND(0.038)	ND(0.038)	0.13	0.13
	6-10	2/1/2006	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	10-15	2/1/2006	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA15-A23.5	0-1	2/3/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA15-A24.5	0-1	2/3/2006	ND(0.036)	0.12	0.076	0.196
RAA15-A25	1-3	2/1/2006	ND(0.038)	0.043	0.089	0.132
	3-6	2/1/2006	ND(0.037)	ND(0.037)	0.030 J	0.030 J
	6-10	2/1/2006	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	10-15	2/1/2006	ND(0.038)	0.025 J	ND(0.038)	0.025 J
RAA15-A26.5	0-1	2/3/2006	ND(0.038)	ND(0.038)	0.071	0.071

**TABLE A-1  
ADDITIONAL SUPPLEMENTAL SOIL SAMPLING RESULTS FOR PCBs**

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GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA15-A27	1-3	2/2/2006	ND(0.038)	ND(0.038)	1.9	1.9
	3-6	2/2/2006	ND(0.038)	ND(0.054)	0.042	0.042
	6-10	2/2/2006	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	10-15	2/2/2006	ND(0.040)	ND(0.048)	ND(0.040)	ND(0.048)
RAA15-A27.5	0-1	2/3/2006	ND(3.7)	ND(3.7)	33	33
RAA15-AA26	0-1	2/3/2006	ND(0.043)	0.18	0.26	0.44
RAA15-AA26.5	0-1	2/3/2006	ND(0.037)	ND(0.037)	0.97	0.97
RAA15-AA27	0-1	2/3/2006	ND(0.039)	0.15	0.12	0.27
RAA15-AB19.5	0-1	2/3/2006	ND(0.042)	ND(0.042)	1.8	1.8
RAA15-AB20	0-1	2/3/2006	ND(0.21)	ND(0.21)	3.6	3.6
RAA15-AB20.5	0-1	1/31/2006	ND(0.039)	0.44	1.0	1.44
RAA15-AB21	0-1	1/31/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA15-AB21.5	0-1	1/31/2006	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]
RAA15-AB22	0-1	1/31/2006	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA15-AB22.5	0-1	1/31/2006	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA15-AB23	0-1	1/31/2006	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA15-AB23.5	0-1	1/31/2006	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA15-AB24	0-1	2/3/2006	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA15-AB24.5	0-1	2/3/2006	ND(0.038)	0.49	0.89	1.38
RAA15-B19	1-3	2/2/2006	ND(0.52)	ND(0.52)	8.9	8.9
	3-6	2/2/2006	ND(0.057)	ND(0.057)	0.067	0.067
	6-10	2/2/2006	ND(0.054)	ND(0.054)	ND(0.054)	ND(0.054)
	10-15	2/2/2006	ND(0.054)	ND(0.054)	ND(0.054)	ND(0.054)
RAA15-B19.5	0-1	2/3/2006	ND(4.6)	20	18	38
RAA15-B20	1-3	2/2/2006	ND(4.0)	28	25	53
	3-6	2/2/2006	ND(0.050)	ND(0.14)	0.18	0.18
	6-10	2/2/2006	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)
	10-15	2/2/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
RAA15-B20.5	0-1	2/3/2006	ND(0.40)	4.2	2.3	6.5
RAA15-B21A	1-3	2/1/2006	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	3-6	2/1/2006	ND(0.037)	0.20	0.26	0.46
	6-10	2/1/2006	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	10-15	2/1/2006	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
RAA15-B21.5	0-1	1/31/2006	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA15-B22	1-3	2/2/2006	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	3-6	2/2/2006	ND(0.036)	0.82	0.25	1.07
	6-10	2/2/2006	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	10-15	2/2/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA15-B22.5	0-1	2/3/2006	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA15-B23	1-3	2/2/2006	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	3-6	2/2/2006	ND(0.036)	ND(0.068)	ND(0.036)	ND(0.068)
	6-10	2/2/2006	ND(0.73)	3.5	3.7	7.2
	10-15	2/2/2006	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA15-B23.5	0-1	2/3/2006	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA15-B24A	1-3	2/2/2006	ND(0.043) [ND(0.040)]	ND(0.043) [ND(0.040)]	0.068 [0.13]	0.068 [0.13]
	3-6	2/2/2006	ND(0.039)	ND(0.039)	0.18	0.18
	6-10	2/2/2006	ND(0.039)	0.50	0.30	0.80
	10-15	2/2/2006	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA15-B24.5	0-1	2/3/2006	ND(0.038)	0.55	0.58	1.13
RAA15-BC18.5	0-1	2/3/2006	ND(4.0)	68	36	104
RAA15-BC19	0-1	2/3/2006	ND(39)	380	170	550
RAA15-BC19.5	0-1	2/3/2006	ND(40)	370	170	540
RAA15-BC20.5	0-1	2/3/2006	ND(0.043)	0.25	0.20	0.45
RAA15-BC21	0-1	2/3/2006	R	0.37 J	0.066 J	0.436 J
RAA15-BC21.5	0-1	2/3/2006	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA15-BC22	0-1	2/3/2006	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA15-BC22.5	0-1	2/3/2006	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA15-BC23	0-1	2/3/2006	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA15-BC23.5	0-1	2/3/2006	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA15-BC24	0-1	2/3/2006	ND(0.042)	0.023 J	0.077	0.10
RAA15-BC24.5	0-1	2/3/2006	ND(0.037)	0.20	0.21	0.41

**TABLE A-1  
ADDITIONAL SUPPLEMENTAL SOIL SAMPLING RESULTS FOR PCBs**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA15-C18.5	0-1	2/3/2006	ND(22)	95	53	148
RAA15-C19A	1-3	2/2/2006	ND(0.049)	ND(0.049)	ND(0.049)	ND(0.049)
	3-6	2/2/2006	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
	6-10	2/2/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	10-15	2/2/2006	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA15-C19.5	0-1	2/3/2006	ND(0.054)	0.46	0.34	0.80
RAA15-C20S	0-1	2/2/2006	ND(0.044)	0.29	0.35	0.64
	1-3	2/2/2006	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)
	3-6	2/2/2006	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)
	6-10	2/2/2006	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
	10-15	2/2/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA15-C20.5	0-1	2/3/2006	ND(0.043)	0.14	0.20	0.34
RAA15-C21	1-3	2/2/2006	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	3-6	2/2/2006	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	6-10	2/2/2006	ND(0.39)	6.9	2.0	8.9
	10-15	2/2/2006	ND(0.039)	0.85	0.38	1.23
RAA15-C21.5	0-1	2/3/2006	ND(0.038)	ND(0.038)	0.048	0.048
RAA15-C22.5	0-1	2/3/2006	ND(0.038)	0.060	0.061	0.121
RAA15-C23	1-3	2/2/2006	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	3-6	2/2/2006	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	6-10	2/2/2006	ND(0.18)	1.9	2.1	4.0
	10-15	2/2/2006	ND(2.2)	27	19	46
RAA15-C23.5	0-1	2/3/2006	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA15-C24.5	0-1	2/3/2006	R [ND(0.036)]	R [0.15]	0.14 J [0.20]	0.14 J [0.35]
RAA15-C25A	1-3	2/1/2006	ND(0.036)	ND(0.036)	0.046	0.046
	3-6	2/1/2006	ND(0.037)	0.12	0.17	0.29
	6-10	2/1/2006	ND(0.036)	0.23	0.22	0.45
	10-15	2/1/2006	ND(0.037)	0.072	0.084	0.156
RAA15-CD18	0-1	2/3/2006	ND(0.46)	4.9	3.4	8.3
RAA15-CD20.5	0-1	2/2/2006	ND(0.042)	ND(0.042)	0.15	0.15
RAA15-CD21	0-1	2/2/2006	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA15-CD21.5	0-1	2/2/2006	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA15-CD22	0-1	2/2/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
RAA15-CD22.5	0-1	2/2/2006	ND(0.043)	ND(0.043)	0.070	0.070
RAA15-CD23	0-1	2/2/2006	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA15-CD23.5	0-1	2/2/2006	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA15-CD24	0-1	2/3/2006	ND(0.038)	ND(0.038)	0.064	0.064
RAA15-CD24.5	0-1	2/3/2006	ND(0.041)	ND(0.041)	0.71	0.71
RAA15-CD25	0-1	2/3/2006	ND(0.036)	0.94	0.84	1.78
RAA15-CD25.5	0-1	2/3/2006	ND(0.036)	0.15	0.13	0.28
RAA15-CD26	0-1	2/3/2006	ND(0.036)	ND(0.036)	0.12	0.12
RAA15-CD26.5	0-1	2/3/2006	ND(0.038)	ND(0.038)	0.11	0.11
RAA15-CD27	0-1	2/3/2006	ND(0.037)	ND(0.037)	0.070	0.070
RAA15-CD27.5	0-1	2/3/2006	ND(0.040)	2.0	1.5	3.5
RAA15-D20.5	0-1	2/2/2006	ND(0.044)	ND(0.044)	0.14	0.14
RAA15-D21	1-3	2/1/2006	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
	3-6	2/1/2006	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)
	6-10	2/1/2006	ND(0.14) J	ND(0.14) J	ND(0.14) J	ND(0.14) J
	10-15	2/1/2006	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)
RAA15-D21.5	0-1	2/2/2006	ND(0.049)	ND(0.049)	0.17	0.17
RAA15-D22	1-3	2/1/2006	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)
	3-6	2/1/2006	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)
	6-10	2/1/2006	ND(0.12) J	ND(0.12) J	ND(0.12) J	ND(0.12) J
	10-15	2/1/2006	ND(0.19) J	ND(0.19) J	ND(0.19) J	ND(0.19) J
RAA15-D22.5	0-1	2/2/2006	ND(0.047)	ND(0.047)	0.042 J	0.042 J
RAA15-D23	1-3	2/2/2006	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)
	3-6	2/2/2006	ND(0.051)	ND(0.051)	ND(0.051)	ND(0.051)
	6-10	2/2/2006	ND(0.18) J	ND(0.18) J	ND(0.18) J	ND(0.18) J
	10-15	2/2/2006	ND(0.18) J	ND(0.18) J	ND(0.18) J	ND(0.18) J
RAA15-D23.5	0-1	2/3/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)

**TABLE A-1  
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GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA15-D24	1-3	2/2/2006	ND(0.036) [ND(0.037)]	ND(0.036) [ND(0.037)]	ND(0.036) [ND(0.037)]	ND(0.036) [ND(0.037)]
	3-6	2/2/2006	ND(0.046)	ND(0.15)	0.26	0.26
	6-10	2/2/2006	ND(0.066)	ND(0.066)	ND(0.066)	ND(0.066)
	10-15	2/2/2006	ND(0.19) J	ND(0.19) J	ND(0.19) J	ND(0.19) J
RAA15-D24.5	0-1	2/3/2006	ND(0.043)	0.077	0.18	0.257
RAA15-D25	1-3	2/1/2006	ND(0.042) [ND(0.042)]	0.18 [ND(0.042)]	0.55 [0.62]	0.73 [0.62]
	3-6	2/1/2006	ND(0.037) J	0.14 J	0.23 J	0.37 J
	6-10	2/1/2006	ND(1.9)	ND(1.9)	28	28
	10-15	2/1/2006	ND(0.042)	0.12	0.19	0.31
RAA15-D25.5	0-1	2/3/2006	ND(0.047)	ND(0.047)	0.52	0.52
RAA15-D26	1-3	2/1/2006	ND(0.036)	0.35	0.54	0.89
	3-6	2/1/2006	ND(0.036)	ND(0.036)	1.1	1.1
	6-10	2/1/2006	ND(0.036)	0.17	0.20	0.37
	10-15	2/1/2006	ND(0.038)	ND(0.038)	1.1	1.1
RAA15-D26.5	0-1	2/3/2006	ND(0.035)	0.048	0.065	0.113
RAA15-D27	1-3	2/1/2006	ND(0.039)	ND(0.039)	0.082	0.082
	3-6	2/1/2006	ND(0.037)	0.17	0.25	0.42
	6-10	2/1/2006	ND(0.036)	0.13	0.19	0.32
	10-15	2/1/2006	ND(0.038)	0.36	0.34	0.70
RAA15-D27.5	0-1	2/6/2006	ND(0.037)	ND(0.037)	0.052	0.052
RAA15-DE22.5	0-1	2/2/2006	ND(26)	68	ND(26)	68
RAA15-DE23	0-1	2/2/2006	ND(0.047)	ND(0.047)	0.37	0.37
RAA15-DE23.5	0-1	2/2/2006	ND(0.048)	ND(0.048)	0.42	0.42
RAA15-DE24	0-1	2/2/2006	ND(0.048) [ND(0.049)]	ND(0.048) [ND(0.049)]	0.13 [0.15]	0.13 [0.15]
RAA15-DE24.5	0-1	2/2/2006	ND(0.043)	ND(0.043)	0.41	0.41
RAA15-DE25	0-1	2/2/2006	ND(0.042)	ND(0.042)	0.22	0.22
<b>Parcel K10-12-1</b>						
RAA15-E3.5	0-1	1/25/2006	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
RAA15-EF3	0-1	1/25/2006	ND(0.036)	0.12	0.080	0.20
RAA15-EF3.5	0-1	1/25/2006	ND(0.035)	0.16	0.088	0.248
RAA15-EF4	0-1	1/25/2006	ND(0.037)	0.077	0.051	0.128
RAA15-EF4.5	0-1	1/25/2006	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA15-EF5	0-1	1/31/2006	ND(0.040)	0.88	0.58	1.46
RAA15-F3A	1-3	1/30/2006	ND(0.036)	0.043	ND(0.036)	0.043
	3-6	1/30/2006	ND(3.7)	43	16	59
	6-10	1/30/2006	ND(0.037)	0.27	0.072	0.342
	10-15	1/30/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
RAA15-F4A	1-3	1/31/2006	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	3-6	1/31/2006	ND(0.038)	0.096	0.16	0.256
	6-10	1/31/2006	ND(0.037)	0.24	0.18	0.42
	10-15	1/31/2006	ND(0.043)	0.034 J	ND(0.043)	0.034 J
RAA15-F5	1-3	1/30/2006	ND(0.038)	0.52	0.29	0.81
	3-6	1/30/2006	ND(0.038)	ND(0.041)	ND(0.038)	ND(0.041)
	6-10	1/30/2006	ND(0.041)	0.12	0.079	0.199
	10-15	1/30/2006	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)
RAA15-F5.5	0-1	1/25/2006	ND(0.039)	0.31	0.43	0.74
RAA15-F6	1-3	1/31/2006	ND(0.041)	1.2	0.66	1.86
	3-6	1/31/2006	ND(0.041)	0.28	0.20	0.48
	6-8	1/31/2006	ND(0.045)	0.22	0.16	0.38
RAA15-F6.5	0-1	1/26/2006	ND(0.040)	0.13	0.064	0.194
RAA15-FG3	0-1	1/25/2006	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA15-FG4.5	0-1	1/25/2006	ND(0.042)	0.38	0.49	0.87
RAA15-FG5	0-1	1/25/2006	ND(0.038)	0.14	0.20	0.34
RAA15-FG5.5	0-1	1/26/2006	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA15-FG6	0-1	1/26/2006	ND(0.038)	ND(0.038)	0.033 J	0.033 J
RAA15-FG6.5	0-1	1/26/2006	ND(0.041)	ND(0.041)	0.099	0.099
RAA15-G2.5	0-1	1/25/2006	ND(0.041)	0.29	0.32	0.61
RAA15-G3	1-3	1/31/2006	ND(0.037)	0.058	0.033 J	0.091
	3-4	1/31/2006	ND(0.037)	0.077	0.037	0.114
RAA15-G3.5	0-1	1/25/2006	ND(0.040)	0.20	0.14	0.34



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

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA15-G4.5	0-1	1/25/2006	ND(0.037)	0.12	0.22	0.34
RAA15-G5	1-3	1/30/2006	ND(0.039) [ND(0.039)]	1.1 J [0.38 J]	0.45 J [0.20 J]	1.55 J [0.58 J]
	3-6	1/30/2006	ND(0.039)	ND(0.039)	0.063	0.063
	6-10	1/30/2006	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	10-15	1/30/2006	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)
RAA15-G5.5	0-1	1/26/2006	ND(0.21)	1.1	2.3	3.4
RAA15-G6.5	0-1	1/26/2006	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA15-GH2.5	0-1	1/26/2006	ND(0.79)	15	5.2	20.2
RAA15-GH3	0-1	1/25/2006	ND(0.040)	0.23	0.29	0.52
RAA15-GH3.5	0-1	1/25/2006	ND(0.039)	0.27	0.20	0.47
RAA15-GH4	0-1	1/25/2006	ND(0.037)	ND(0.037)	0.14	0.14
RAA15-GH4.5	0-1	1/25/2006	ND(0.040)	0.24	0.53	0.77
RAA15-GH5	0-1	1/26/2006	ND(0.044)	ND(0.044)	0.10	0.10
RAA15-GH5.5	0-1	1/26/2006	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
RAA15-GH6	0-1	1/26/2006	ND(0.041)	ND(0.041)	0.037 J	0.037 J
RAA15-H2.5	0-1	1/26/2006	ND(0.038)	0.084	0.11	0.194
RAA15-H3	1-3	1/31/2006	ND(0.039)	1.1	1.0	2.1
	3-6	1/31/2006	ND(0.038)	1.8	0.85	2.65
	6-10	1/31/2006	ND(0.037)	0.035 J	0.025 J	0.060 J
	10-15	1/31/2006	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA15-H3.5	0-1	1/26/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA15-H4	1-3	1/31/2006	ND(0.040)	0.19	0.21	0.40
	3-6	1/31/2006	ND(0.038)	ND(0.038)	0.064	0.064
	6-10	1/31/2006	ND(0.041)	0.15	0.086	0.236
	10-15	1/31/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA15-H4.5	0-1	1/26/2006	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)
RAA15-H5	1-3	1/31/2006	ND(0.045) [ND(0.043)]	ND(0.045) [ND(0.043)]	ND(0.045) [ND(0.043)]	ND(0.045) [ND(0.043)]
	3-6	1/31/2006	ND(0.039)	0.052	0.062	0.114
	6-10	1/31/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	10-15	1/31/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
RAA15-I2	0-1	1/26/2006	ND(0.045)	0.13	0.37	0.50
RAA15-I2.5	0-1	1/26/2006	ND(0.39)	8.0	4.2	12.2
RAA15-I3	0-1	1/26/2006	ND(0.041)	ND(0.041)	0.51	0.51
RAA15-I3.5	0-1	1/26/2006	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA15-I4	0-1	1/26/2006	ND(0.042)	ND(0.042)	0.071	0.071
RAA15-I4.5	0-1	1/26/2006	ND(0.042)	ND(0.042)	0.14	0.14
RAA15-J2.5	0-1	1/26/2006	ND(0.039)	ND(0.039)	0.038 J	0.038 J
RAA15-J3	1-3	1/30/2006	ND(0.041)	1.1	0.38	1.48
	3-6	1/30/2006	ND(0.037)	ND(0.037)	0.036 J	0.036 J
	6-10	1/30/2006	ND(0.041)	ND(0.041)	0.036 J	0.036 J
	10-15	1/30/2006	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
RAA15-J3.5	0-1	1/26/2006	ND(0.042)	0.11	0.12	0.23
RAA15-K2	0-1	1/26/2006	ND(0.046)	0.075	0.11	0.185
RAA15-K2.5	0-1	1/26/2006	ND(0.040)	ND(0.040)	0.18	0.18
RAA15-K3	0-1	1/26/2006	ND(0.040)	0.17	0.14	0.31
RAA15-K3.5	0-1	1/26/2006	ND(0.039)	0.098	0.22	0.318
RAA15-M2.5	0-1	1/26/2006	ND(0.041)	0.10	0.19	0.29
<b>Parcel K10-13-1</b>						
RAA15-D2.5	0-1	1/25/2006	ND(0.040)	0.22	0.20	0.42
RAA15-DE1.5	0-1	1/27/2006	ND(0.050)	0.18	0.64	0.82
RAA15-DE2	0-1	1/25/2006	ND(0.040)	ND(0.040)	0.30	0.30
RAA15-DE2.5	0-1	1/27/2006	ND(0.037)	ND(0.037)	0.050	0.050
RAA15-E1.5	0-1	1/25/2006	ND(0.045)	ND(0.045)	0.20	0.20
RAA15-E2.5	0-1	1/25/2006	ND(0.043)	0.44	0.088	0.528
RAA15-E3	1-3	1/30/2006	ND(0.036)	0.054	0.028 J	0.082
	3-6	1/30/2006	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	6-10	1/30/2006	ND(0.038)	ND(0.038)	0.13	0.13
	10-15	1/30/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
RAA15-EF2	0-1	1/25/2006	ND(0.041)	ND(0.041)	0.13	0.13
RAA15-EF2.5	0-1	1/27/2006	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)

**TABLE A-1  
ADDITIONAL SUPPLEMENTAL SOIL SAMPLING RESULTS FOR PCBs**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA15-F2	1-3	1/27/2006	ND(3.7)	54	ND(3.7)	54
	3-6	1/27/2006	ND(0.039) [ND(0.039)]	0.24 [0.16]	0.071 [0.053]	0.311 [0.213]
	6-10	1/27/2006	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	10-15	1/27/2006	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
RAA15-F2.5	0-1	1/25/2006	ND(0.040)	0.15	0.18	0.33
RAA15-FG2	0-1	1/26/2006	ND(0.041)	0.13	0.22	0.35
RAA15-FG2.5	0-1	1/25/2006	ND(0.038) [ND(0.038)]	0.63 [0.67]	0.43 [0.42]	1.06 [1.09]
<b>Recreational Area R1</b>						
RAA15-DE1	0-1	1/25/2006	ND(0.036)	ND(0.036)	0.32	0.32
RAA15-E0	0-1	1/25/2006	ND(0.042)	ND(0.042)	0.037 J	0.037 J
RAA15-EF1	0-1	1/26/2006	ND(0.037)	0.14	0.26	0.40
RAA15-EF1.5	0-1	1/27/2006	ND(0.041)	0.61	0.45	1.06
RAA15-F1	1-3	1/27/2006	ND(0.041)	0.11	0.13	0.24
	3-6	1/27/2006	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
	6-10	1/27/2006	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	10-15	1/27/2006	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA15-F1.5	0-1	1/26/2006	ND(0.039)	0.17	0.50	0.67
RAA15-FG1	0-1	1/26/2006	ND(0.039)	0.11	0.31	0.42
RAA15-FG1.5	0-1	1/26/2006	ND(0.038) [ND(0.037)]	0.11 [0.085]	0.29 [0.23]	0.40 [0.315]
RAA15-G1.5	0-1	1/26/2006	ND(0.049)	0.15	0.22	0.37
RAA15-GH1.5	0-1	1/26/2006	ND(0.040)	0.17	0.26	0.43
RAA15-GH2	0-1	1/26/2006	ND(0.036)	ND(0.036)	0.21	0.21
RAA15-H1.5	0-1	1/26/2006	ND(0.043)	0.27	0.70	0.97
RAA15-H2	1-3	1/30/2006	ND(0.042)	1.1	0.65	1.75
	3-6	1/30/2006	ND(0.42)	6.0	ND(0.42)	6.0
	6-10	1/30/2006	ND(0.042)	0.17	0.074	0.244
	10-15	1/30/2006	ND(0.053)	ND(0.053)	ND(0.053)	ND(0.053)
<b>Commercial Street</b>						
K10-11-7-F88	0-1	1/13/2006	ND(0.046)	ND(0.046)	0.20	0.20
	1-3	1/13/2006	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)
K10-11-7-G90	0-1	1/18/2006	ND(0.39) [ND(0.40)]	ND(0.39) [ND(0.40)]	8.2 [9.6]	8.2 [9.6]
	1-3	1/18/2006	ND(0.73)	ND(0.73)	26	26
K10-11-7-H91	0-1	1/18/2006	ND(0.037)	ND(0.037)	1.0	1.0
	1-3	1/18/2006	ND(0.038)	ND(0.038)	0.079	0.079
K10-11-7-I91	0-1	1/18/2006	ND(0.037)	ND(0.037)	0.69	0.69
	1-3	1/18/2006	ND(0.035)	ND(0.035)	0.038	0.038
	3-6	1/18/2006	ND(0.035)	0.12	0.13	0.25
	6-10	1/18/2006	ND(0.038)	0.13	0.14	0.27
	10-15	1/18/2006	ND(0.038)	ND(0.038)	0.12	0.12

**Notes:**

1. Samples were collected by Blasland, Bouck & Lee, Inc., and submitted to SGS Environmental Services, Inc. for analysis of PCBs.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved May 29, 2004 and resubmitted June 19, 2004).
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. Field duplicate sample results are presented in brackets.

**Data Qualifiers:**

- J - Indicates that the associated numerical value is an estimated concentration.
- R - Data was rejected due to a deficiency in the data generation process.

**TABLE A-2  
ADDITIONAL SUPPLEMENTAL SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID: Sample ID: Sample Depth(Feet): Date Collected:	K10-12-1 RAA15-G4 3-6 01/31/06
<b>Semivolatile Organics</b>		
1,2,4,5-Tetrachlorobenzene		ND(0.38) [ND(0.38)]
1,2,4-Trichlorobenzene		ND(0.38) [ND(0.38)]
1,2-Dichlorobenzene		ND(0.38) [ND(0.38)]
1,2-Diphenylhydrazine		ND(0.38) [ND(0.38)]
1,3,5-Trinitrobenzene		ND(0.38) J [ND(0.38) J]
1,3-Dichlorobenzene		ND(0.38) [ND(0.38)]
1,3-Dinitrobenzene		ND(0.77) J [ND(0.76) J]
1,4-Dichlorobenzene		ND(0.38) [ND(0.38)]
1,4-Naphthoquinone		ND(0.77) J [ND(0.76) J]
1-Naphthylamine		ND(0.77) [ND(0.76)]
2,3,4,6-Tetrachlorophenol		ND(0.38) J [ND(0.38) J]
2,4,5-Trichlorophenol		ND(0.38) [ND(0.38)]
2,4,6-Trichlorophenol		ND(0.38) [ND(0.38)]
2,4-Dichlorophenol		ND(0.38) [ND(0.38)]
2,4-Dimethylphenol		ND(0.38) [ND(0.38)]
2,4-Dinitrophenol		ND(2.0) [ND(1.9)]
2,4-Dinitrotoluene		ND(0.38) [ND(0.38)]
2,6-Dichlorophenol		ND(0.38) [ND(0.38)]
2,6-Dinitrotoluene		ND(0.38) [ND(0.38)]
2-Acetylaminofluorene		ND(0.77) J [ND(0.76) J]
2-Chloronaphthalene		ND(0.38) [ND(0.38)]
2-Chlorophenol		ND(0.38) [ND(0.38)]
2-Methylnaphthalene		0.051 J [0.044 J]
2-Methylphenol		ND(0.38) [ND(0.38)]
2-Naphthylamine		ND(0.77) [ND(0.76)]
2-Nitroaniline		ND(2.0) [ND(1.9)]
2-Nitrophenol		ND(0.77) [ND(0.76)]
2-Picoline		ND(0.38) [ND(0.38)]
3&4-Methylphenol		ND(0.77) [ND(0.76)]
3,3'-Dichlorobenzidine		ND(0.77) [ND(0.76)]
3,3'-Dimethylbenzidine		ND(0.38) [ND(0.38)]
3-Methylcholanthrene		ND(0.77) [ND(0.76)]
3-Nitroaniline		ND(2.0) [ND(1.9)]
4,6-Dinitro-2-methylphenol		ND(0.38) [ND(0.38)]
4-Aminobiphenyl		ND(0.77) J [ND(0.76) J]
4-Bromophenyl-phenylether		ND(0.38) [ND(0.38)]
4-Chloro-3-Methylphenol		ND(0.38) [ND(0.38)]
4-Chloroaniline		ND(0.38) [ND(0.38)]
4-Chlorobenzilate		ND(0.77) [ND(0.76)]
4-Chlorophenyl-phenylether		ND(0.38) [ND(0.38)]
4-Nitroaniline		ND(2.0) [ND(1.9)]
4-Nitrophenol		ND(2.0) J [ND(1.9) J]
4-Nitroquinoline-1-oxide		ND(0.77) J [ND(0.76) J]
4-Phenylenediamine		ND(0.77) [ND(0.76)]
5-Nitro-o-toluidine		ND(0.77) [ND(0.76)]
7,12-Dimethylbenz(a)anthracene		ND(0.77) [ND(0.76)]
a,a'-Dimethylphenethylamine		ND(0.77) J [ND(0.76) J]
Acenaphthene		ND(0.38) [ND(0.38)]
Acenaphthylene		0.17 J [0.11 J]
Acetophenone		ND(0.38) [ND(0.38)]
Aniline		ND(0.38) J [ND(0.38) J]
Anthracene		0.14 J [0.11 J]
Aramite		ND(0.77) J [ND(0.76) J]
Benzidine		ND(0.77) J [ND(0.76) J]
Benzo(a)anthracene		0.51 [0.32 J]
Benzo(a)pyrene		0.57 [0.28 J]
Benzo(b)fluoranthene		0.42 [0.21 J]
Benzo(g,h,i)perylene		0.31 J [0.19 J]
Benzo(k)fluoranthene		0.49 [0.27 J]
Benzyl Alcohol		ND(0.77) [ND(0.76)]
bis(2-Chloroethoxy)methane		ND(0.38) [ND(0.38)]
bis(2-Chloroethyl)ether		ND(0.38) [ND(0.38)]
bis(2-Chloroisopropyl)ether		ND(0.38) [ND(0.38)]
bis(2-Ethylhexyl)phthalate		ND(0.38) [ND(0.38)]

**TABLE A-2  
ADDITIONAL SUPPLEMENTAL SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID: Sample ID: Sample Depth(Feet): Date Collected:	K10-12-1 RAA15-G4 3-6 01/31/06
<b>Semivolatile Organics (continued)</b>		
Butylbenzylphthalate		ND(0.38) [ND(0.38)]
Chrysene		0.55 [0.34 J]
Diallate		ND(0.77) [ND(0.76)]
Dibenzo(a,h)anthracene		0.13 J [0.079 J]
Dibenzofuran		0.052 J [ND(0.38)]
Diethylphthalate		ND(0.38) [ND(0.38)]
Dimethylphthalate		ND(0.38) [ND(0.38)]
Di-n-Butylphthalate		ND(0.38) [ND(0.38)]
Di-n-Octylphthalate		ND(0.38) [ND(0.38)]
Diphenylamine		ND(0.38) J [ND(0.38) J]
Ethyl Methanesulfonate		ND(0.38) [ND(0.38)]
Fluoranthene		1.0 [0.64]
Fluorene		ND(0.38) [ND(0.38)]
Hexachlorobenzene		ND(0.38) [ND(0.38)]
Hexachlorobutadiene		ND(0.38) [ND(0.38)]
Hexachlorocyclopentadiene		ND(0.38) [ND(0.38)]
Hexachloroethane		ND(0.38) [ND(0.38)]
Hexachlorophene		ND(0.77) J [ND(0.76) J]
Hexachloropropene		ND(0.38) J [ND(0.38) J]
Indeno(1,2,3-cd)pyrene		0.24 J [0.15 J]
Isodrin		ND(0.38) [ND(0.38)]
Isophorone		ND(0.38) [ND(0.38)]
Isosafrole		ND(0.77) J [ND(0.76) J]
Methapyrilene		ND(0.77) J [ND(0.76) J]
Methyl Methanesulfonate		ND(0.38) J [ND(0.38) J]
Naphthalene		0.079 J [0.056 J]
Nitrobenzene		ND(0.38) [ND(0.38)]
N-Nitrosodiethylamine		ND(0.38) [ND(0.38)]
N-Nitrosodimethylamine		ND(0.38) [ND(0.38)]
N-Nitroso-di-n-butylamine		ND(0.77) J [ND(0.76) J]
N-Nitroso-di-n-propylamine		ND(0.38) [ND(0.38)]
N-Nitrosodiphenylamine		ND(0.38) [ND(0.38)]
N-Nitrosomethylethylamine		ND(0.77) J [ND(0.76) J]
N-Nitrosomorpholine		ND(0.38) [ND(0.38)]
N-Nitrosopiperidine		ND(0.38) [ND(0.38)]
N-Nitrosopyrrolidine		ND(0.77) [ND(0.76)]
o,o,o-Triethylphosphorothioate		ND(0.38) [ND(0.38)]
o-Toluidine		ND(0.38) J [ND(0.38) J]
p-Dimethylaminoazobenzene		ND(0.77) [ND(0.76)]
Pentachlorobenzene		ND(0.38) [ND(0.38)]
Pentachloroethane		ND(0.38) [ND(0.38)]
Pentachloronitrobenzene		ND(0.77) [ND(0.76)]
Pentachlorophenol		ND(2.0) [ND(1.9)]
Phenacetin		ND(0.77) [ND(0.76)]
Phenanthrene		0.56 [0.41]
Phenol		ND(0.38) [ND(0.38)]
Pronamide		ND(0.38) [ND(0.38)]
Pyrene		0.91 [0.56]
Pyridine		ND(0.38) [ND(0.38)]
Safrole		ND(0.38) J [ND(0.38) J]
Thionazin		ND(0.38) [ND(0.38)]

**TABLE A-2**  
**ADDITIONAL SUPPLEMENTAL SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-13-1						Recreational Area R1	
	RAA15-DE1.5 1-3 01/27/06	RAA15-DE1.5 3-6 01/27/06	RAA15-DE2.5 1-3 01/27/06	RAA15-DE2.5 3-6 01/27/06	RAA15-EF2.5 1-3 01/27/06	RAA15-EF2.5 3-6 01/27/06	RAA15-EF1.5 1-3 01/27/06	RAA15-EF1.5 3-6 01/27/06
<b>Inorganics</b>								
Antimony	3.70 B	1.80 B	1.70 B	3.00 B	3.50 B	14.0 B	2.70 B [3.00 B]	1.30 B
Copper	120 J	25.0 J	140 J	110 J	250 J	850 J	51.0 J [44.0 J]	43.0 J
Lead	220 J	20.0 J	57.0 J	130 J	260 J	4400 J	84.0 J [48.0 J]	15.0 J

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc., and submitted to SGS Environmental Services, Inc. for analysis of SVOCs or antimony, lead and copper.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, Blasland, Bouck & Lee, Inc. (approved May 29, 2004 and resubmitted June 19, 2004).
3. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics

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

Inorganics

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

**TABLE A-3  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR PCBs**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
<b>Parcel K10-10-3</b>								
RAA15-H7	0-1	2/13/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.14	0.14
RAA15-J6	0-1	2/13/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.28	0.28
	1-3	2/13/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.19	0.19
	3-6	2/13/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.054	0.054
	6-10	2/13/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.039 J	0.039 J
	10-15	2/13/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.040 J	0.040 J
RAA15-J7	0-1	2/13/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.020 J	0.020 J
RAA15-J8	0-1	2/13/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.034 J	0.034 J
	1-3	2/13/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	3-6	2/13/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	6-10	2/13/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	10-15	2/13/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA15-L5	0-1	2/13/2003	ND(0.049)	ND(0.049)	ND(0.049)	ND(0.049)	0.26	0.26
RAA15-L6	0-1	2/13/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.15	0.15
RAA15-L7	0-1	2/13/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.054	0.054
RAA15-L8	0-1	2/13/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.26	0.26
RAA15-N6	0-1	2/13/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.084	0.084
	1-3	2/13/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.021 J	0.021 J
	3-6	2/13/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	6-10	2/13/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	10-15	2/13/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA15-N7	0-1	2/13/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.083	0.083
<b>Parcel K10-10-4</b>								
RAA15-G9	0-1	2/13/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.26	0.26
RAA15-G11	0-1	2/13/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.042	0.042
	1-3	2/13/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	3-6	2/13/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)
	6-10	2/13/2003	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)
	10-15	2/13/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
RAA15-G13	0-1	2/13/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.11	0.11
RAA15-GH12	0-1	2/12/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.10	0.10
RAA15-H8	0-1	2/13/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.063	0.063
RAA15-H9	0-1	2/13/2003	ND(0.042) [ND(0.045)]	ND(0.042) [ND(0.045)]	ND(0.042) [ND(0.045)]	ND(0.042) [ND(0.045)]	0.24 [0.23]	0.24 [0.23]
<b>Parcel K10-10-5</b>								
RAA15-GH13	0-1	2/12/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.16	0.16
RAA15-H11	0-1	2/12/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.066	0.066
	1-3	2/12/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.011 J	0.011 J
	3-5	2/12/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA15-H12	0-1	2/12/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.088	0.088
RAA15-H13	0-1	2/12/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.050	0.050
	1-3	2/12/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	3-5	2/12/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	9-11	ND(0.058)	ND(0.058)	ND(0.058)	ND(0.058)	ND(0.058)	ND(0.058)	ND(0.058)
RAA15-H14	0-1	2/12/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.053	0.053

**TABLE A-3  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR PCBs**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA15-I10	0-1	2/12/2003	ND(0.039)	ND(0.039)	ND(0.039)	0.095	0.15	0.245
RAA15-I11	0-1	2/12/2003	ND(0.038)	ND(0.038)	ND(0.038)	0.61	0.55	1.16
RAA15-I12	0-1	2/12/2003	ND(0.041)	ND(0.041)	ND(0.041)	0.11	0.16	0.27
RAA15-I13	0-1	2/12/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.054	0.054
RAA15-I14	0-1	2/12/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.076	0.076
RAA15-J8.5	0-1	2/12/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.11	0.11
RAA15-J9	0-1	2/12/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.13	0.13
	1-3	2/12/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	3-5	2/12/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA15-J10	0-1	2/12/2003	ND(0.043) [ND(0.043)]	ND(0.043) [ND(0.043)]	ND(0.043) [ND(0.043)]	ND(0.043) [ND(0.043)]	0.19 [0.19]	0.19 [0.19]
RAA15-J11	0-1	2/11/2003	ND(0.037)	ND(0.037)	ND(0.037)	0.45	0.38	0.83
	1-3	2/11/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.018 J	0.018 J
	3-5	2/11/2003	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	0.016 J	0.016 J
	5-7	2/11/2003	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)
RAA15-J12	0-1	2/12/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.063	0.063
RAA15-J13	0-1	2/12/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.10	0.10
RAA15-K8.5	0-1	2/12/2003	ND(0.040)	ND(0.040)	ND(0.040)	0.072	0.15	0.222
RAA15-K9	0-1	2/12/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.14	0.14
RAA15-K10	0-1	2/12/2003	ND(0.047)	ND(0.047)	ND(0.047)	0.031 J	0.070	0.101
RAA15-K11	0-1	2/12/2003	ND(0.046)	ND(0.046)	ND(0.046)	0.35	0.56	0.91
RAA15-K12	0-1	2/12/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.15	0.15
RAA15-L8.5	0-1	2/12/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.13	0.13
RAA15-L9	0-1	2/11/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.34	0.34
	1-3	2/11/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.0071 J	0.0071 J
	3-5	2/11/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA15-L10	0-1	2/12/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.15	0.15
<b>Parcel K10-10-6</b>								
RAA15-I15	0-1	2/12/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.099	0.099
RAA15-J14	0-1	2/12/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.051	0.051
RAA15-J15	0-1	2/11/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.15	0.15
	1-3	2/11/2003	ND(0.037)	ND(0.037)	ND(0.037)	0.053	0.051	0.104
	3-5	2/11/2003	ND(0.041)	0.012 J	ND(0.041)	ND(0.041)	0.039 J	0.051 J
	5-7	2/11/2003	ND(0.039)	ND(0.039)	ND(0.039)	0.040	ND(0.039)	0.040
	7-9	2/11/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA15-K13	0-1	2/12/2003	ND(0.039)	ND(0.039)	ND(0.039)	0.14	0.14	0.28
RAA15-K14	0-1	2/12/2003	ND(0.040) [ND(0.20)]	ND(0.040) [ND(0.20)]	ND(0.040) [ND(0.20)]	0.74 [2.9]	0.41 [1.7]	1.15 [4.6]
RAA15-K15	0-1	2/12/2003	ND(0.043)	ND(0.043)	ND(0.043)	0.041 J	0.058	0.099
RAA15-K16	0-1	2/12/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.20	0.20
RAA15-L11	0-1	2/11/2003	ND(0.044)	ND(0.044)	ND(0.044)	0.32	0.30	0.62
	1-3	2/11/2003	ND(0.036)	ND(0.036)	ND(0.036)	0.029 J	0.033 J	0.062 J
	3-5	2/11/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA15-L12	0-1	2/12/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.73	0.73

**TABLE A-3  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR PCBs**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA15-L13	0-1	2/11/2003	ND(0.042)	ND(0.042)	ND(0.042)	0.63	0.42	1.05
	1-3	2/11/2003	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	2.4	2.4
	3-5	2/11/2003	ND(0.038)	0.13	ND(0.038)	0.17	0.11	0.41
	5-7	2/11/2003	ND(3.9)	ND(3.9)	ND(3.9)	25	ND(3.9)	25
	7-9	2/11/2003	ND(3.8)	ND(3.8)	ND(3.8)	35	ND(3.8)	35
	9-11	2/11/2003	ND(0.39)	ND(0.39)	ND(0.39)	3.0	ND(0.39)	3.0
	11-13	2/11/2003	ND(0.050)	ND(0.050)	ND(0.050)	0.40 J	ND(0.050)	0.40 J
13-15	2/11/2003	ND(0.047)	ND(0.047)	ND(0.047)	0.014 J	ND(0.047)	0.014 J	
RAA15-L14	0-1	2/12/2003	ND(0.041)	ND(0.041)	ND(0.041)	0.22	0.19	0.41
RAA15-L15	0-1	2/11/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.15	0.15
	1-3	2/11/2003	ND(0.037)	ND(0.037)	ND(0.037)	0.016 J	0.024 J	0.040 J
	3-5	2/11/2003	ND(0.19)	ND(0.19)	ND(0.19)	2.7	ND(0.19)	2.7
	5-7	2/11/2003	ND(7.8)	ND(7.8)	ND(7.8)	63	ND(7.8)	63
	7-9	2/11/2003	ND(0.038)	ND(0.038)	ND(0.038)	0.29	ND(0.038)	0.29
	9-11	2/11/2003	ND(0.039)	ND(0.039)	ND(0.039)	0.37	ND(0.039)	0.37
	11-13	2/11/2003	ND(0.039)	ND(0.039)	ND(0.039)	0.78	ND(0.039)	0.78
13-15	2/11/2003	ND(0.043) [ND(0.042) J]	ND(0.043) [ND(0.042) J]	ND(0.043) [ND(0.042) J]	0.50 [0.21 J]	ND(0.043) [0.093 J]	0.50 [0.303 J]	
RAA15-L16	0-1	2/12/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.099	0.099
RAA15-M10	0-1	2/12/2003	ND(0.039)	ND(0.039)	ND(0.039)	0.013 J	0.016 J	0.029 J
RAA15-M11	0-1	2/12/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.033 J	0.033 J
RAA15-M12	0-1	2/11/2003	ND(0.040)	ND(0.040)	ND(0.040)	0.20	0.35	0.55
RAA15-M13	0-1	2/11/2003	ND(0.041)	ND(0.041)	ND(0.041)	0.89	1.3	2.19
RAA15-M14	0-1	2/11/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.12	0.12
RAA15-M15	0-1	2/11/2003	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)	0.24	0.24
RAA15-M16	0-1	2/11/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.16	0.16
RAA15-M17	0-1	2/11/2003	ND(0.041)	ND(0.041)	ND(0.041)	0.17	0.27	0.44
RAA15-N11	0-1	2/10/2003	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)	0.16	0.16
	1-3	2/10/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.029 J	0.029 J
	3-5	2/10/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA15-N12	0-1	2/11/2003	ND(0.042)	ND(0.042)	ND(0.042)	0.10	0.13	0.23
RAA15-N13	0-1	2/10/2003	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	1.6	1.6
	1-3	2/10/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.18	0.18
	3-5	2/10/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA15-N14	0-1	2/11/2003	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	0.88	0.88
RAA15-N15	0-1	2/10/2003	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	2.1	2.1
	1-3	2/10/2003	ND(0.36) [ND(0.74)]	ND(0.36) [ND(0.74)]	ND(0.36) [ND(0.74)]	8.1 [11]	4.2 [5.4]	12.3 [16.4]
	3-5	2/10/2003	ND(0.041)	ND(0.041)	ND(0.041)	0.22	0.30	0.52
	5-7	2/10/2003	ND(0.036)	ND(0.036)	ND(0.036)	0.046	ND(0.036)	0.046
	7-9	2/10/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA15-N16	0-1	2/11/2003	ND(0.041)	ND(0.041)	ND(0.041)	0.18	0.30	0.48
RAA15-N17	0-1	2/10/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.38	0.38
	1-3	2/10/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.13	0.13
	3-5	2/10/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.038	0.038
	5-7	2/10/2003	ND(0.035)	ND(0.035)	0.017 J	0.039	0.10	0.156
	7-9	2/10/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)



**TABLE A-3  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR PCBs**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA15-O11	0-1	2/12/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.091	0.091
RAA15-O13	0-1	2/11/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.062	0.062
RAA15-O14	0-1	2/11/2003	ND(0.040)	ND(0.040)	ND(0.040)	0.090	0.087	0.177
RAA15-O15	0-1	2/11/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	1.4	1.4
RAA15-O16	0-1	2/11/2003	ND(0.041)	ND(0.041)	ND(0.041)	1.6	0.76	2.36
RAA15-P12	0-1	2/11/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.020 J	0.020 J
RAA15-P13	0-1	2/10/2003	ND(0.052)	ND(0.052)	ND(0.052)	ND(0.052)	0.13	0.13
	1-3	2/10/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.051	0.051
	3-5	2/10/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.0096 J	0.0096 J
	5-7	2/10/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA15-P14	0-1	2/11/2003	ND(0.047)	ND(0.047)	ND(0.047)	0.057	0.061	0.118
RAA15-P15	0-1	2/10/2003	ND(0.051)	ND(0.051)	ND(0.051)	ND(0.051)	0.15	0.15
	1-3	2/10/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.026 J	0.026 J
	3-5	2/10/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA15-Q13	0-1	2/11/2003	ND(0.043)	ND(0.043)	ND(0.043)	0.082	0.13	0.212
<b>Parcel K10-10-33</b>								
RAA15-E18	0-1	2/20/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.21	0.21
	1-3	2/20/2003	ND(0.038)	ND(0.038)	ND(0.038)	0.050	0.11	0.16
	3-6	2/20/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.15	0.15
	6-10	2/20/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.053	0.053
	10-15	2/20/2003	ND(0.039) [ND(0.041)]	ND(0.039) [ND(0.041)]	ND(0.039) [ND(0.041)]	ND(0.039) [ND(0.041)]	ND(0.039) [ND(0.041)]	ND(0.039) [ND(0.041)]
RAA15-E19	0-1	2/18/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.13	0.13
RAA15-E20	1-3	2/19/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.18	0.18
	3-6	2/19/2003	ND(0.043)	ND(0.043)	ND(0.043)	0.040 J	0.053	0.093
	6-10	2/19/2003	ND(0.061)	0.12	ND(0.061)	ND(0.061)	0.11	0.23
	10-15	2/19/2003	ND(0.13)	ND(0.13)	ND(0.13)	ND(0.13)	ND(0.13)	ND(0.13)
RAA15-E21	0-1	2/19/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.13	0.13
RAA15-E22	0-1	2/19/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.10	0.10
	1-3	2/19/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.26	0.26
	3-6	2/19/2003	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	0.25	0.25
	6-10	2/19/2003	ND(0.069)	ND(0.069)	ND(0.069)	ND(0.069)	ND(0.069)	ND(0.069)
	10-15	2/19/2003	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
RAA15-E23	0-1	2/18/2003	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)	0.15	0.15
RAA15-F17	0-1	2/17/2003	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	0.13	0.13
RAA15-F18	0-1	2/18/2003	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)	0.18	0.18
RAA15-F19	0-1	2/18/2003	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	2.5	2.5
RAA15-F21	0-1	2/18/2003	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)	0.041 J	0.041 J
RAA15-F22	0-1	2/18/2003	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)	0.057	0.057
RAA15-F23	0-1	2/18/2003	ND(0.052)	ND(0.052)	ND(0.052)	ND(0.052)	0.084	0.084
RAA15-F24	0-1	2/18/2003	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	0.070	0.070

**TABLE A-3  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR PCBs**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA15-G15	0-1	2/13/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.057	0.057
	1-3	2/13/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.016 J	0.016 J
	3-6	2/13/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
	6-10	2/13/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
	10-15	2/13/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.017 J	0.017 J
RAA15-G17	0-1	2/17/2003	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)	0.089	0.089
RAA15-G18	10-15	2/14/2003	ND(0.042)	0.014 J	ND(0.042)	ND(0.042)	0.014 J	0.028 J
RAA15-G19	0-1	2/18/2003	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	0.053	0.053
RAA15-G20	0-1	2/14/2003	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)	0.074	0.074
	1-3	2/14/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	3-6	2/14/2003	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)
	6-10	2/14/2003	ND(0.066)	ND(0.066)	ND(0.066)	ND(0.066)	ND(0.066)	ND(0.066)
	10-15	2/14/2003	ND(0.11) [ND(0.12)]	ND(0.11) [ND(0.12)]	ND(0.11) [ND(0.12)]	ND(0.11) [ND(0.12)]	ND(0.11) [ND(0.12)]	ND(0.11) [ND(0.12)]
RAA15-G21	0-1	2/18/2003	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	0.24	0.24
RAA15-G22	1-3	2/19/2003	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)	0.081	0.081
	3-6	2/19/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.021 J	0.021 J
	6-10	2/19/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	10-15	2/19/2003	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)	ND(0.056)
RAA15-G23	0-1	2/18/2003	ND(0.053)	ND(0.053)	ND(0.053)	ND(0.053)	0.094	0.094
RAA15-H15	0-1	2/17/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.10	0.10
RAA15-H17	0-1	2/17/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.084	0.084
RAA15-H18	0-1	2/18/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.061	0.061
RAA15-H19	0-1	2/18/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.067	0.067
RAA15-H20	0-1	2/18/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.080	0.080
RAA15-H21	0-1	2/18/2003	ND(0.052)	ND(0.052)	ND(0.052)	ND(0.052)	0.18	0.18
RAA15-J17	0-1	2/17/2003	ND(0.041) [ND(0.040)]	ND(0.041) [ND(0.040)]	ND(0.041) [ND(0.040)]	ND(0.041) [ND(0.040)]	0.061 [0.052]	0.061 [0.052]
RAA15-J18	0-1	2/14/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.069	0.069
	1-3	2/14/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	3-6	2/14/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	6-10	2/14/2003	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)
	10-15	2/14/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)
RAA15-J19	0-1	2/18/2003	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)	0.11	0.11
RAA15-J20	0-1	2/20/2003	ND(0.052)	ND(0.052)	ND(0.052)	ND(0.052)	0.060	0.060
	1-3	2/20/2003	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)
	3-6	2/20/2003	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
	6-10	2/20/2003	ND(0.084)	ND(0.084)	ND(0.084)	ND(0.084)	ND(0.084)	ND(0.084)
	10-15	2/20/2003	ND(0.075)	ND(0.075)	ND(0.075)	ND(0.075)	ND(0.075)	ND(0.075)
RAA15-L17	0-1	2/17/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.066	0.066
RAA15-L18	0-1	2/17/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.12	0.12
RAA15-L19	0-1	2/17/2003	ND(0.051)	ND(0.051)	ND(0.051)	ND(0.051)	0.051	0.051

**TABLE A-3  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR PCBs**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
<b>Parcel K10-11-1</b>								
RAA15-C4	0-1	3/7/2003	ND(0.040)	ND(0.040)	ND(0.040)	0.057	0.12	0.177
	1-3	3/7/2003	ND(0.038)	ND(0.038)	ND(0.038)	0.052	0.080	0.132
	3-6	3/7/2003	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	ND(0.037) [ND(0.037)]	0.056 [ND(0.037)]	0.092 [0.13]	0.148 [0.13]
	6-10	3/7/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.027 J	0.027 J
	10-15	3/7/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA15-C5	0-1	3/10/2003	ND(0.041)	ND(0.041)	ND(0.041)	0.29	ND(0.041)	0.29
RAA15-D3	0-1	3/10/2003	ND(0.035)	ND(0.035)	ND(0.035)	0.16	0.24	0.40
RAA15-D4	0-1	3/10/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA15-D5	0-1	3/10/2003	ND(0.038)	ND(0.038)	ND(0.038)	0.69	0.60	1.29
RAA15-E4	0-1	3/7/2003	ND(0.038)	ND(0.038)	ND(0.038)	0.24	0.22	0.46
	1-3	3/7/2003	ND(0.74)	ND(0.74)	ND(0.74)	8.4	6.5	14.9
	3-6	3/7/2003	ND(0.36)	ND(0.36)	ND(0.36)	2.6	1.8	4.4
	6-10	3/7/2003	ND(0.035)	ND(0.035)	ND(0.035)	0.10	0.078	0.178
	10-15	3/7/2003	ND(0.036)	ND(0.036)	ND(0.036)	0.14	0.11	0.25
RAA15-E5	0-1	3/10/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.38	0.38
RAA15-E6	0-1	3/6/2003	ND(0.053)	ND(0.053)	ND(0.053)	0.24	0.73	0.97
	1-3	3/6/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.21	0.21
	3-6	3/6/2003	ND(0.040) [ND(0.040)]	ND(0.040) [ND(0.040)]	ND(0.040) [ND(0.040)]	0.46 J [ND(0.040) J]	0.48 J [0.28 J]	0.94 J [0.28 J]
	6-10	3/6/2003	ND(0.044)	ND(0.044)	ND(0.044)	0.036 J	0.046	0.082
	10-15	3/6/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
<b>Parcel K10-11-2</b>								
RAA15-A8	0-1	2/24/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.088	0.088
	1-3	2/24/2003	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	3-6	2/24/2003	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	6-10	2/24/2003	ND(0.036)	ND(0.036)	ND(0.036)	0.28	0.36	0.64
	10-15	2/24/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA15-A9	0-1	2/24/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.34	0.34
RAA15-A11	0-1	2/21/2003	ND(0.17)	ND(0.17)	ND(0.17)	ND(0.17)	2.8	2.8
	1-3	2/21/2003	ND(0.15)	ND(0.15)	ND(0.15)	ND(0.15)	2.2	2.2
RAA15-A13	0-1	2/25/2003	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	3.9	3.9
RAA15-A15	0-1	2/21/2003	ND(0.14)	ND(0.14)	ND(0.14)	ND(0.14)	1.8	1.8
	1-3	2/21/2003	ND(0.37)	ND(0.37)	ND(0.37)	4.2	3.3	7.5
	3-6	2/21/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.013 J	0.013 J
	6-10	2/21/2003	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) [ND(0.036)]	ND(0.036) J [0.11 J]	0.021 J [0.047]	0.021 J [0.157 J]
	10-15	2/21/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.0089 J	0.0089 J
RAA15-A17	0-1	2/24/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.68	0.68
RAA15-A18	0-1	2/24/2003	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	5.7	5.7
	1-3	2/24/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.058	0.058
	3-6	2/24/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.018 J	0.018 J
	6-10	2/24/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	10-15	2/24/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA15-B6	0-1	3/6/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	1.2	1.2
RAA15-B7	0-1	2/25/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	0.060	0.060
RAA15-B8	0-1	2/25/2003	ND(0.039)	ND(0.039)	ND(0.039)	0.24	0.43	0.67
RAA15-B9	0-1	2/25/2003	ND(0.19)	ND(0.19)	ND(0.19)	ND(0.19)	2.3	2.3

**TABLE A-3  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR PCBs**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA15-B11	0-1	2/25/2003	ND(18)	ND(18)	ND(18)	ND(18)	500 J	500 J
RAA15-B13	0-1	2/25/2003	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	99	99
RAA15-B15	0-1	2/25/2003	ND(7.4) [ND(19)]	ND(7.4) [ND(19)]	ND(7.4) [ND(19)]	ND(7.4) [ND(19)]	150 [270 J]	150 [270 J]
RAA15-B17	0-1	2/25/2003	ND(3.7)	ND(3.7)	ND(3.7)	19	46	65
RAA15-C8	0-1	2/26/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.39	0.39
	1-3	2/26/2003	ND(0.36)	ND(0.36)	ND(0.36)	3.9	3.5	7.4
	3-6	2/26/2003	ND(0.036)	ND(0.036)	ND(0.036)	0.020 J	0.028 J	0.048 J
	6-10	2/26/2003	ND(0.71)	ND(0.71)	ND(0.71)	6.4	7.3	13.7
	10-15	2/26/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
RAA15-C9	0-1	2/25/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.37	0.37
RAA15-C11	0-1	2/21/2003	ND(3.8)	ND(3.8)	ND(3.8)	ND(3.8)	69	69
	1-3	2/21/2003	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	25	25
	3-6	2/21/2003	ND(0.035) [ND(0.036)]	ND(0.035) [ND(0.036)]	ND(0.035) [ND(0.036)]	0.65 [0.61]	1.1 [0.95]	1.75 [1.56]
	6-10	2/21/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA15-C13	0-1	2/25/2003	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	3.5	3.5
RAA15-C15	0-1	2/21/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	1.0	1.0
	1-3	2/21/2003	ND(0.74)	ND(0.74)	ND(0.74)	ND(0.74)	12	12
	3-6	2/21/2003	ND(0.036)	ND(0.036)	ND(0.036)	0.11	0.16	0.27
	6-10	2/21/2003	ND(1.8)	ND(1.8)	ND(1.8)	25	43	68
	10-15	2/21/2003	ND(0.17)	ND(0.17)	ND(0.17)	1.8	2.8	4.6
RAA15-C17	0-1	2/25/2003	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	23	23
RAA15-D8	0-1	2/27/2003	ND(0.21)	ND(0.21)	ND(0.21)	1.2	2.9	4.1
RAA15-D9	0-1	2/25/2003	ND(3.6)	ND(3.6)	ND(3.6)	ND(3.6)	38	38
RAA15-D11	0-1	2/25/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.93	0.93
RAA15-D13	0-1	2/25/2003	ND(0.38)	ND(0.38)	ND(0.38)	ND(0.38)	4.1	4.1
RAA15-D15	0-1	2/25/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.73	0.73
RAA15-E11	0-1	2/21/2003	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	4.2	4.2
	1-3	2/21/2003	ND(1.9)	ND(1.9)	ND(1.9)	25	36	61
RAA15-E11 (OFFSET)	3-6	2/27/2003	ND(0.37)	ND(0.37)	ND(0.37)	1.9	3.0	4.9
	6-10	2/27/2003	ND(0.74)	ND(0.74)	ND(0.74)	4.0	6.7	10.7
	10-15	2/27/2003	ND(0.048) [ND(0.045)]	ND(0.048) [ND(0.045)]	ND(0.048) [ND(0.045)]	0.057 [0.052]	0.099 [0.087]	0.156 [0.139]
RAA15-F11	0-1	2/27/2003	ND(0.043)	ND(0.043)	ND(0.043)	ND(0.043)	0.54	0.54
RAA15-F13	0-1	2/27/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.29	0.29
<b>Parcel K10-11-3</b>								
RAA15-A19	0-1	2/24/2003	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)	3.6	3.6
RAA15-A19SW	1-3	5/3/2004	ND(0.043) [ND(0.045)]	ND(0.043) [ND(0.045)]	ND(0.043) [ND(0.045)]	0.42 [0.36]	1.0 [0.90]	1.42 [1.26]
	3-6	5/3/2004	ND(0.052)	ND(0.052)	ND(0.052)	ND(0.052)	ND(0.052)	ND(0.052)
	6-10	5/3/2004	ND(0.051)	ND(0.051)	ND(0.051)	ND(0.051)	ND(0.051)	ND(0.051)
	10-15	5/3/2004	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
<b>Parcel K10-11-5</b>								
RAA15-A20	0-1	2/28/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.38	0.38
	1-3	2/28/2003	ND(0.037)	ND(0.037)	ND(0.037)	0.036 J	0.054	0.090
	3-6	2/28/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	6-10	2/28/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	10-15	2/28/2003	ND(0.038)	0.0082 J	ND(0.038)	ND(0.038)	ND(0.038)	0.0082 J

**TABLE A-3  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR PCBs**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA15-A21	0-1	3/3/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.61	0.61
RAA15-A22	0-1	2/28/2003	ND(0.036)	ND(0.036)	ND(0.036)	0.015 J	0.027 J	0.042 J
	1-3	2/28/2003	ND(0.18)	ND(0.18)	ND(0.18)	1.9	1.6	3.5
	3-6	2/28/2003	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	0.16 J [ND(0.038) J]	0.24 [0.20]	0.40 J [0.20 J]
	6-10	2/28/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	10-15	2/28/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA15-A23	0-1	3/3/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.21	0.21
RAA15-A24	0-1	2/28/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.16	0.16
	1-3	2/28/2003	ND(0.035)	ND(0.035)	ND(0.035)	0.098	0.097	0.195
	6-10	2/28/2003	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	10-15	2/28/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA15-A25	0-1	3/3/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.11	0.11
RAA15-A26	0-1	3/3/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	1.1	1.1
	1-3	3/3/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.12	0.12
	3-6	3/3/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.089	0.089
	6-10	3/3/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	10-15	3/3/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.0087 J	0.0087 J
RAA15-A27	0-1	3/3/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.55	0.55
RAA15-B19	0-1	2/25/2003	ND(4.9)	ND(4.9)	ND(4.9)	ND(4.9)	67	67
RAA15-B20	0-1	3/4/2003	ND(20)	ND(20)	ND(20)	ND(20)	280	280
RAA15-B21	0-1	3/3/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.085	0.085
RAA15-B22	0-1	2/28/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
RAA15-B23	0-1	3/3/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA15-B24	0-1	3/3/2003	ND(0.045) [ND(0.048)]	ND(0.045) [ND(0.048)]	ND(0.045) [ND(0.048)]	ND(0.045) [ND(0.048)]	0.36 [0.30]	0.36 [0.30]
RAA15-C19	0-1	2/27/2003	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)	0.32	0.32
RAA15-C20	0-1	3/4/2003	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	0.28	0.28
	1-3	3/4/2003	ND(0.042) [ND(0.042)]	ND(0.042) [ND(0.042)]	ND(0.042) [ND(0.042)]	ND(0.042) [ND(0.042)]	0.029 J [0.036 J]	0.029 J [0.036 J]
	3-6	3/4/2003	ND(0.049)	ND(0.049)	ND(0.049)	ND(0.049)	ND(0.049)	ND(0.049)
	6-10	3/4/2003	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
RAA15-C20 (OFFSET)	10-15	3/4/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA15-C21	0-1	3/3/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.016 J	0.016 J
RAA15-C22	0-1	2/28/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.016 J	0.016 J
	1-3	2/28/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	3-6	2/28/2003	ND(0.035)	ND(0.035)	ND(0.035)	0.15	0.17	0.32
	6-10	2/28/2003	ND(0.24)	ND(0.24)	ND(0.24)	2.7	2.8	5.5
	10-15	2/28/2003	ND(0.038)	ND(0.038)	ND(0.038)	0.098	0.12	0.218
RAA15-C23	0-1	3/3/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.0089 J	0.0089 J
RAA15-C24	0-1	3/3/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.041	0.041
	1-3	3/3/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.058	0.058
	3-6	3/3/2003	ND(0.035)	ND(0.035)	ND(0.035)	0.019 J	0.019 J	
	6-10	3/3/2003	ND(0.038)	ND(0.038)	ND(0.038)	0.33	0.33	
	10-15	3/3/2003	ND(0.039)	ND(0.039)	ND(0.039)	0.046	0.042	0.088
RAA15-C25	0-1	3/4/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.17	0.17
RAA15-D20	0-1	3/4/2003	ND(0.052)	ND(0.052)	ND(0.052)	ND(0.052)	0.19	0.19
RAA15-D21	0-1	3/4/2003	ND(0.052)	ND(0.052)	ND(0.052)	ND(0.052)	0.083	0.083
RAA15-D22	0-1	3/4/2003	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	0.029 J	0.029 J

**TABLE A-3  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR PCBs**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA15-D23	0-1	3/4/2003	ND(0.051)	ND(0.051)	ND(0.051)	ND(0.051)	0.095	0.095
RAA15-D24	0-1	3/4/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.017 J	0.017 J
RAA15-D25	0-1	3/4/2003	ND(0.042)	ND(0.042)	ND(0.042)	0.082	0.19	0.272
RAA15-D26	0-1	3/4/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.73	0.73
RAA15-D27	0-1	3/4/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.43	0.43
<b>Parcel K10-12-1</b>								
RAA15-F3	0-1	3/6/2003	ND(0.036)	ND(0.036)	ND(0.036)	0.058	0.12	0.178
RAA15-F4	0-1	3/6/2003	ND(0.039)	ND(0.039)	ND(0.039)	0.053	0.080	0.133
RAA15-F5	0-1	3/6/2003	ND(0.037)	ND(0.037)	ND(0.037)	0.21	0.28	0.49
RAA15-F6	0-1	3/6/2003	ND(0.040)	ND(0.040)	ND(0.040)	0.24	0.23	0.47
RAA15-G3	0-1	3/6/2003	ND(0.036)	ND(0.036)	ND(0.036)	0.16	0.14	0.30
RAA15-G4	0-1	3/4/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.066	0.066
	1-3	3/4/2003	ND(0.037)	ND(0.037)	ND(0.037)	0.056	0.059	0.115
	3-6	3/4/2003	ND(0.037)	ND(0.037)	ND(0.037)	0.021 J	0.024 J	0.045 J
	6-10	3/4/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.066	0.066
	10-15	3/4/2003	ND(0.049)	ND(0.049)	ND(0.049)	0.092	0.11	0.202
RAA15-G5	0-1	3/6/2003	ND(0.040)	ND(0.040)	ND(0.040)	0.58	1.6	2.18
RAA15-G6	0-1	3/5/2003	ND(0.048)	ND(0.048)	ND(0.048)	ND(0.048)	0.038 J	0.038 J
	1-3	3/5/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.028 J	0.028 J
	3-6	3/5/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.015 J	0.015 J
	6-10	3/5/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	10-15	3/5/2003	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)
RAA15-G7	0-1	3/6/2003	ND(0.044)	0.037 J	ND(0.044)	ND(0.044)	0.40	0.437
RAA15-H3	0-1	3/5/2003	ND(0.042)	ND(0.042)	ND(0.042)	0.82	0.72	1.54
RAA15-H4	0-1	3/5/2003	ND(0.81)	ND(0.81)	ND(0.81)	ND(0.81)	7.2	7.2
RAA15-H5	0-1	3/5/2003	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	0.037 J	0.037 J
RAA15-J2	0-1	3/5/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.37	0.37
	1-3	3/5/2003	ND(0.035)	ND(0.035)	ND(0.035)	0.096	0.18	0.276
	3-6	3/5/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.016 J	0.016 J
	6-10	3/5/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.016 J	0.016 J
	10-15	3/5/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA15-J3	0-1	3/5/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.094	0.094
RAA15-J4	0-1	3/5/2003	ND(0.043)	0.029 J	ND(0.043)	ND(0.043)	0.15	0.179
	1-3	3/5/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.048	0.048
	3-6	3/5/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	6-10	3/5/2003	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [ND(0.038)]	ND(0.038) [0.0070 J]	ND(0.038) [0.0070 J]
	10-15	3/5/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA15-L2	0-1	3/5/2003	ND(0.20)	ND(0.20)	ND(0.20)	1.8	ND(0.20)	1.8
RAA15-L3	0-1	3/5/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	0.14	0.14
<b>Parcel K10-13-1</b>								
RAA15-D2	0-1	3/10/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.66	0.66
	1-3	3/10/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.18	0.18
	3-6	3/10/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
	6-10	3/10/2003	ND(0.037) [ND(0.038)]	ND(0.037) [ND(0.038)]	ND(0.037) [ND(0.038)]	ND(0.037) [ND(0.038)]	ND(0.037) [ND(0.038)]	ND(0.037) [ND(0.038)]
	10-15	3/10/2003	ND(0.039)	ND(0.039)	ND(0.039)	0.039	0.057	0.096

**TABLE A-3  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR PCBs**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA15-E2	0-1	3/10/2003	ND(0.037)	ND(0.037)	ND(0.037)	0.070	0.12	0.19
	1-3	3/10/2003	ND(0.20)	ND(0.20)	ND(0.20)	2.0	ND(0.20)	2.0
	3-6	3/10/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)
	6-10	3/10/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
	10-15	3/10/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
RAA15-E3	0-1	3/10/2003	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	0.094	0.094
RAA15-F2	0-1	3/10/2003	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	0.43	0.43
<b>Recreational Area R1</b>								
RAA15-E1	0-1	3/10/2003	ND(0.037)	ND(0.037)	ND(0.037)	ND(0.037)	0.081	0.081
	1-3	3/10/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
	3-6	3/10/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
	6-10	3/10/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.012 J	0.012 J
	10-15	3/10/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
RAA15-F1	0-1	3/6/2003	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.22	0.22
RAA15-G1	0-1	3/6/2003	ND(0.045)	ND(0.045)	ND(0.045)	ND(0.045)	0.84	0.84
RAA15-G2	0-1	3/7/2003	ND(0.19)	ND(0.19)	ND(0.19)	1.8	1.5	3.3
	1-3	3/7/2003	ND(0.19)	ND(0.19)	ND(0.19)	2.9	2.3	5.2
	3-6	3/7/2003	ND(0.38)	ND(0.38)	ND(0.38)	3.7	3.2	6.9
	6-10	3/7/2003	ND(0.19)	ND(0.19)	ND(0.19)	1.8	1.6	3.4
	10-15	3/7/2003	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)	ND(0.047)
RAA15-H2	0-1	3/5/2003	ND(0.040)	ND(0.040)	ND(0.040)	0.53	0.54	1.07
<b>Recreational Area R2</b>								
RAA15-C6	0-1	3/6/2003	ND(0.23)	ND(0.23)	ND(0.23)	3.0	2.7	5.7
	1-3	3/6/2003	ND(0.20)	ND(0.20)	ND(0.20)	1.7	1.6	3.3
	3-6	3/6/2003	ND(0.20)	ND(0.20)	ND(0.20)	2.2	2.3	4.5
	6-10	3/6/2003	ND(0.041)	ND(0.041)	ND(0.041)	0.85	1.1	1.95
	RAA15-C7	0-1	2/25/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	1.3
RAA15-D6	0-1	3/6/2003	ND(0.051)	ND(0.051)	ND(0.051)	0.64	0.90	1.54
RAA15-D7	0-1	2/27/2003	ND(0.47)	ND(0.47)	ND(0.47)	ND(0.47)	4.1	4.1
RAA15-E7	0-1	2/27/2003	ND(0.45)	ND(0.45)	ND(0.45)	2.5	5.0	7.5
RAA15-E8	0-1	2/26/2003	ND(0.39)	ND(0.39)	ND(0.39)	ND(0.39)	6.1	6.1
	1-3	2/26/2003	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	24	24
	3-6	2/26/2003	ND(0.75)	ND(0.75)	ND(0.75)	ND(0.75)	12	12
	6-10	2/26/2003	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	0.11	0.11
	10-15	2/26/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)
RAA15-E9	0-1	2/27/2003	ND(0.74)	ND(0.74)	ND(0.74)	4.0	9.2	13.2
RAA15-F7	0-1	3/5/2003	ND(0.051)	ND(0.051)	ND(0.051)	0.13	0.21	0.34
RAA15-F8	0-1	2/27/2003	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	1.8	1.8
RAA15-F9	0-1	2/27/2003	ND(0.041) [ND(0.042)]	ND(0.041) [ND(0.042)]	ND(0.041) [ND(0.042)]	ND(0.041) [ND(0.042)]	0.46 [0.49]	0.46 [0.49]

**TABLE A-3  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR PCBs**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221, -1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
<b>Recreational Area R3A</b>								
RAA15-D17	0-1	2/25/2003	ND(0.85)	ND(0.85)	ND(0.85)	ND(0.85)	14	14
RAA15-E13	0-1	2/27/2003	ND(0.16)	ND(0.16)	ND(0.16)	0.51	1.5	2.01
RAA15-E15	0-1	2/26/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.37	0.37
	1-3	2/26/2003	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	0.27	0.27
	3-6	2/26/2003	ND(0.21)	ND(0.21)	ND(0.21)	1.3	2.1	3.4
	6-10	2/26/2003	ND(0.038)	ND(0.038)	ND(0.038)	0.057	0.070	0.127
	10-15	2/26/2003	ND(0.041) [ND(0.040)]	ND(0.041) [ND(0.040)]	ND(0.041) [ND(0.040)]	ND(0.041) [0.010 J]	0.019 J [0.020 J]	0.019 J [0.030 J]
<b>Recreational Area R3B</b>								
RAA15-B18	0-1	2/25/2003	ND(0.85)	ND(0.85)	ND(0.85)	ND(0.85)	15	15
RAA15-C18	0-1	2/26/2003	ND(4.0)	ND(4.0)	ND(4.0)	62	48	110
	1-3	2/26/2003	ND(0.20)	ND(0.20)	ND(0.20)	2.3	1.7	4.0
	3-6	2/26/2003	ND(0.044)	ND(0.044)	ND(0.044)	0.065	0.082	0.147
	6-10	2/26/2003	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.046)
	10-15	2/26/2003	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)	ND(0.044)

Notes:

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

Data Qualifiers:

J - Indicates an estimated value less than the practical quantitation limit (PQL).



**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth (Feet): Parameter Date Collected:	K10-10-3						
	RAA15-J6 1-3 02/13/03	RAA15-J6 10-15 02/13/03	RAA15-J6 12-15 02/13/03	RAA15-J7 0-1 02/13/03	RAA15-L6 0-1 02/13/03	RAA15-N6 1-3 02/13/03	RAA15-N6 3-6 02/13/03
<b>Volatile Organics</b>							
1,1,1,2-Tetrachloroethane	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
1,1,1-Trichloroethane	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
1,1,2,2-Tetrachloroethane	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
1,1,2-Trichloroethane	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
1,1-Dichloroethane	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
1,1-Dichloroethene	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
1,2,3-Trichloropropane	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
1,2-Dibromo-3-chloropropane	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
1,2-Dibromoethane	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
1,2-Dichloroethane	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
1,2-Dichloropropane	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
1,4-Dioxane	ND(1.3) J	NA	ND(1.1) J	ND(1.1) J	ND(1.2) J	ND(1.0) J	NA
2-Butanone	ND(0.0063) J	NA	ND(0.0055) J	ND(0.0056) J	ND(0.0059) J	ND(0.0051) J	NA
2-Chloro-1,3-butadiene	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
2-Chloroethylvinylether	ND(0.013) J	NA	ND(0.011) J	ND(0.011) J	ND(0.012) J	ND(0.010) J	NA
2-Hexanone	ND(0.025)	NA	ND(0.022)	ND(0.022)	ND(0.024)	ND(0.020)	NA
3-Chloropropene	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
4-Methyl-2-pentanone	ND(0.025)	NA	ND(0.022)	ND(0.022)	ND(0.024)	ND(0.020)	NA
Acetone	ND(0.025) J	NA	ND(0.022) J	ND(0.022) J	ND(0.024) J	ND(0.020) J	NA
Acetonitrile	ND(0.13) J	NA	ND(0.11) J	ND(0.11) J	ND(0.12) J	ND(0.10) J	NA
Acrolein	ND(0.13) J	NA	ND(0.11) J	ND(0.11) J	ND(0.12) J	ND(0.10) J	NA
Acrylonitrile	ND(0.13)	NA	ND(0.11)	ND(0.11)	ND(0.12)	ND(0.10)	NA
Benzene	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Bromodichloromethane	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Bromoform	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Bromomethane	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Carbon Disulfide	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Carbon Tetrachloride	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Chlorobenzene	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Chloroethane	ND(0.013)	NA	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.010)	NA
Chloroform	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Chloromethane	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
cis-1,3-Dichloropropene	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Dibromochloromethane	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Dibromomethane	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Dichlorodifluoromethane	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Ethyl Methacrylate	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Ethylbenzene	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Iodomethane	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Isobutanol	ND(0.25) J	NA	ND(0.22) J	ND(0.22) J	ND(0.24) J	ND(0.20) J	NA
Methacrylonitrile	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Methyl Methacrylate	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Methylene Chloride	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	0.0012 J	NA
Propionitrile	ND(0.013)	NA	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.010)	NA
Styrene	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Tetrachloroethene	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Toluene	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
trans-1,2-Dichloroethene	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
trans-1,3-Dichloropropene	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
trans-1,4-Dichloro-2-butene	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Trichloroethene	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Trichlorofluoromethane	ND(0.0063) J	NA	ND(0.0055) J	ND(0.0056) J	ND(0.0059) J	ND(0.0051) J	NA
Vinyl Acetate	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
Vinyl Chloride	ND(0.013)	NA	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.010)	NA
Xylenes (total)	ND(0.0063)	NA	ND(0.0055)	ND(0.0056)	ND(0.0059)	ND(0.0051)	NA
<b>Semivolatile Organics</b>							
1,2,4,5-Tetrachlorobenzene	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
1,2,4-Trichlorobenzene	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
1,2-Dichlorobenzene	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
1,2-Diphenylhydrazine	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
1,3,5-Trinitrobenzene	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
1,3-Dichlorobenzene	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth (Feet): Parameter Date Collected:	K10-10-3						
	RAA15-J6 1-3 02/13/03	RAA15-J6 10-15 02/13/03	RAA15-J6 12-15 02/13/03	RAA15-J7 0-1 02/13/03	RAA15-L6 0-1 02/13/03	RAA15-N6 1-3 02/13/03	RAA15-N6 3-6 02/13/03
<b>Semivolatile Organics (continued)</b>							
1,3-Dinitrobenzene	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
1,4-Dichlorobenzene	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
1,4-Naphthoquinone	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
1-Naphthylamine	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
2,3,4,6-Tetrachlorophenol	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
2,4,5-Trichlorophenol	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
2,4,6-Trichlorophenol	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
2,4-Dichlorophenol	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
2,4-Dimethylphenol	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
2,4-Dinitrophenol	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
2,4-Dinitrotoluene	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
2,6-Dichlorophenol	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
2,6-Dinitrotoluene	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
2-Acetylaminofluorene	ND(0.83)	ND(0.79)	NA	ND(0.81)	ND(0.86)	ND(0.74)	ND(0.76)
2-Chloronaphthalene	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
2-Chlorophenol	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
2-Methylnaphthalene	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
2-Methylphenol	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
2-Naphthylamine	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
2-Nitroaniline	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
2-Nitrophenol	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
2-Picoline	ND(0.83)	ND(0.79)	NA	ND(0.81)	ND(0.86)	ND(0.74)	ND(0.76)
3&4-Methylphenol	ND(0.83)	ND(0.79)	NA	ND(0.81)	ND(0.86)	ND(0.74)	ND(0.76)
3,3'-Dichlorobenzidine	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
3,3'-Dimethylbenzidine	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
3-Methylcholanthrene	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
3-Nitroaniline	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
4,6-Dinitro-2-methylphenol	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
4-Aminobiphenyl	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
4-Bromophenyl-phenylether	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
4-Chloro-3-Methylphenol	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
4-Chloroaniline	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
4-Chlorobenzilate	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
4-Chlorophenyl-phenylether	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
4-Nitroaniline	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
4-Nitrophenol	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
4-Nitroquinoline-1-oxide	ND(4.2)	ND(4.0)	NA	ND(4.0)	ND(4.3)	ND(3.7)	ND(3.8)
4-Phenylenediamine	ND(8.3)	ND(7.9)	NA	ND(8.1)	ND(8.6)	ND(7.4)	ND(7.6)
5-Nitro-o-toluidine	ND(0.83)	ND(0.79)	NA	ND(0.81)	ND(0.86)	ND(0.74)	ND(0.76)
7,12-Dimethylbenz(a)anthracene	ND(0.83)	ND(0.79)	NA	ND(0.81)	ND(0.86)	ND(0.74)	ND(0.76)
a,a'-Dimethylphenethylamine	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
Acenaphthene	ND(0.42)	0.049 J	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Acenaphthylene	0.13 J	ND(0.40)	NA	ND(0.40)	0.085 J	ND(0.37)	ND(0.38)
Acetophenone	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Aniline	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Anthracene	0.099 J	0.085 J	NA	ND(0.40)	0.062 J	ND(0.37)	ND(0.38)
Aramite	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
Benzidine	ND(4.2)	ND(4.0)	NA	ND(4.0)	ND(4.3)	ND(3.7)	ND(3.8)
Benzo(a)anthracene	0.36 J	0.24 J	NA	ND(0.40)	0.23 J	ND(0.37)	ND(0.38)
Benzo(a)pyrene	0.43	0.24 J	NA	ND(0.40)	0.27 J	ND(0.37)	ND(0.38)
Benzo(b)fluoranthene	0.38 J	0.25 J	NA	ND(0.40)	0.26 J	ND(0.37)	ND(0.38)
Benzo(g,h,i)perylene	0.18 J	0.080 J	NA	ND(0.40)	0.11 J	ND(0.37)	ND(0.38)
Benzo(k)fluoranthene	0.43	0.26 J	NA	ND(0.40)	0.26 J	ND(0.37)	ND(0.38)
Benzyl Alcohol	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
bis(2-Chloroethoxy)methane	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
bis(2-Chloroethyl)ether	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
bis(2-Chloroisopropyl)ether	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
bis(2-Ethylhexyl)phthalate	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Butylbenzylphthalate	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Chrysene	0.51	0.33 J	NA	ND(0.40)	0.32 J	ND(0.37)	ND(0.38)
Diallate	ND(0.83)	ND(0.79)	NA	ND(0.81)	ND(0.86)	ND(0.74)	ND(0.76)
Dibenzo(a,h)anthracene	0.057 J	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-10-3						
	RAA15-J6 1-3 02/13/03	RAA15-J6 10-15 02/13/03	RAA15-J6 12-15 02/13/03	RAA15-J7 0-1 02/13/03	RAA15-L6 0-1 02/13/03	RAA15-N6 1-3 02/13/03	RAA15-N6 3-6 02/13/03
<b>Semivolatile Organics (continued)</b>							
Dibenzofuran	ND(0.42)	0.062 J	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Diethylphthalate	ND(0.42)	ND(0.40)	NA	0.084 J	0.10 J	0.13 J	ND(0.38)
Dimethylphthalate	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Di-n-Butylphthalate	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Di-n-Octylphthalate	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Diphenylamine	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Ethyl Methanesulfonate	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Fluoranthene	0.92	0.82	NA	0.067 J	0.60	ND(0.37)	ND(0.38)
Fluorene	ND(0.42)	0.059 J	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Hexachlorobenzene	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Hexachlorobutadiene	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Hexachlorocyclopentadiene	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
Hexachloroethane	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Hexachlorophene	ND(8.5)	ND(8.1)	NA	ND(8.2)	ND(8.7)	ND(7.5)	ND(7.7)
Hexachloropropene	ND(4.2)	ND(4.0)	NA	ND(4.0)	ND(4.3)	ND(3.7)	ND(3.8)
Indeno(1,2,3-cd)pyrene	0.20 J	0.11 J	NA	ND(0.40)	0.13 J	ND(0.37)	ND(0.38)
Isodrin	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Isophorone	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Isosafrole	ND(0.83)	ND(0.79)	NA	ND(0.81)	ND(0.86)	ND(0.74)	ND(0.76)
Methapyrene	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
Methyl Methanesulfonate	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Naphthalene	0.029 J	0.071 J	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Nitrobenzene	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
N-Nitrosodiethylamine	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
N-Nitrosodimethylamine	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
N-Nitroso-di-n-butylamine	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
N-Nitroso-di-n-propylamine	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
N-Nitrosodiphenylamine	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
N-Nitrosomethylethylamine	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
N-Nitrosomorpholine	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
N-Nitrosopiperidine	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
N-Nitrosopyrrolidine	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
o,o'-Triethylphosphorothioate	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
o-Toluidine	ND(0.83)	ND(0.79)	NA	ND(0.81)	ND(0.86)	ND(0.74)	ND(0.76)
p-Dimethylaminoazobenzene	ND(0.83)	ND(0.79)	NA	ND(0.81)	ND(0.86)	ND(0.74)	ND(0.76)
Pentachlorobenzene	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Pentachloroethane	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
Pentachloronitrobenzene	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
Pentachlorophenol	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
Phenacetin	ND(0.83)	ND(0.79)	NA	ND(0.81)	ND(0.86)	ND(0.74)	ND(0.76)
Phenanthrene	0.54	0.78	NA	ND(0.40)	0.34 J	ND(0.37)	ND(0.38)
Phenol	ND(0.42)	ND(0.40)	NA	ND(0.40)	ND(0.43)	ND(0.37)	ND(0.38)
Pronamide	ND(0.83)	ND(0.79)	NA	ND(0.81)	ND(0.86)	ND(0.74)	ND(0.76)
Pyrene	0.67	0.46	NA	0.051 J	0.43	0.048 J	ND(0.38)
Pyridine	ND(0.83)	ND(0.79)	NA	ND(0.81)	ND(0.86)	ND(0.74)	ND(0.76)
Safrole	ND(0.83)	ND(0.79)	NA	ND(0.81)	ND(0.86)	ND(0.74)	ND(0.76)
Thionazin	ND(2.0)	ND(1.9)	NA	ND(2.0)	ND(2.1)	ND(1.8)	ND(1.8)
<b>Furans</b>							
2,3,7,8-TCDF	0.000010 Y	ND(0.000012) YJ	NA	0.000014 Y	0.000013 Y	0.000017 Y	ND(0.0000019)
TCDFs (total)	0.000042	ND(0.000012) YJ	NA	0.000042	0.000056	0.000056	ND(0.0000019)
1,2,3,7,8-PeCDF	ND(0.0000028) X	ND(0.0000022) XJ	NA	ND(0.0000052) X	0.000046 J	ND(0.0000041) X	ND(0.0000013) X
2,3,4,7,8-PeCDF	0.000046 J	ND(0.0000017) J	NA	ND(0.0000059) X	0.000090	ND(0.0000037) X	ND(0.0000017) X
PeCDFs (total)	0.000050	ND(0.0000022) XJ	NA	ND(0.000015) X	0.000051	ND(0.0000046)	ND(0.0000017) X
1,2,3,4,7,8-HxCDF	0.0000086	ND(0.0000045) X	NA	ND(0.000011) X	0.000013	ND(0.0000066) X	ND(0.0000018) X
1,2,3,6,7,8-HxCDF	0.000048 J	ND(0.0000049) X	NA	ND(0.0000071) X	0.000069	ND(0.0000025) X	ND(0.0000013) X
1,2,3,7,8,9-HxCDF	ND(0.0000051)	ND(0.0000017)	NA	ND(0.0000026)	ND(0.0000099)	ND(0.0000015)	ND(0.0000086) X
2,3,4,6,7,8-HxCDF	0.000046 J	ND(0.0000014)	NA	ND(0.0000057) X	0.000064 J	ND(0.0000026) X	ND(0.0000086) X
HxCDFs (total)	0.00024	ND(0.000019) X	NA	0.000013	0.00041	ND(0.000018) X	ND(0.0000018) X
1,2,3,4,6,7,8-HpCDF	0.00034	0.000058 J	NA	0.000019	0.00088	ND(0.000016) X	ND(0.0000023) X
1,2,3,4,7,8,9-HpCDF	0.000093	ND(0.0000016)	NA	ND(0.0000065) X	0.000085	ND(0.0000013) X	ND(0.0000074)
HpCDFs (total)	0.00083	0.000011	NA	0.000040	0.0016	ND(0.000016) X	ND(0.0000023) X
OCDF	0.00044 D	ND(0.0000038)	NA	0.000022	0.00056 D	ND(0.0000030)	ND(0.0000042)

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-10-3						
	RAA15-J6 1-3 02/13/03	RAA15-J6 10-15 02/13/03	RAA15-J6 12-15 02/13/03	RAA15-J7 0-1 02/13/03	RAA15-L6 0-1 02/13/03	RAA15-N6 1-3 02/13/03	RAA15-N6 3-6 02/13/03
<b>Dioxins</b>							
2,3,7,8-TCDD	0.00000092 J	ND(0.00000014) J	NA	ND(0.00000012) X	0.0000020	ND(0.00000011)	ND(0.00000097) X
TCDDs (total)	0.0000039	ND(0.00000014) J	NA	ND(0.00000022) X	0.0000048	ND(0.00000011)	ND(0.00000097) X
1,2,3,7,8-PeCDD	ND(0.0000023)	ND(0.00000035) J	NA	ND(0.00000026) X	ND(0.0000015) X	ND(0.00000021)	ND(0.00000017)
PeCDDs (total)	0.0000088	ND(0.00000072) J	NA	ND(0.00000066) X	ND(0.0000031)	ND(0.00000021) X	ND(0.00000017) X
1,2,3,4,7,8-HxCDD	0.0000057 J	ND(0.00000016)	NA	ND(0.00000046) X	0.0000036 J	ND(0.00000016)	ND(0.00000011) X
1,2,3,6,7,8-HxCDD	0.000031	ND(0.00000024) X	NA	ND(0.0000013) X	0.000020	ND(0.00000019) X	ND(0.00000086)
1,2,3,7,8,9-HxCDD	0.000011	ND(0.00000014) X	NA	ND(0.0000012) X	0.0000065 J	ND(0.00000025) X	ND(0.00000011) X
HxCDDs (total)	0.00019	ND(0.00000085) X	NA	0.0000039	0.00013	ND(0.00000059) X	ND(0.00000011) X
1,2,3,4,6,7,8-HpCDD	0.00091	0.0000045 J	NA	0.000040	0.00045	ND(0.0000024) X	ND(0.00000033) X
HpCDDs (total)	0.0017	0.0000090	NA	0.000067	0.00083	ND(0.0000024) X	ND(0.00000033) X
OCDD	0.0082 D	ND(0.000046)	NA	0.00028	0.0048 D	ND(0.000021)	ND(0.0000043) X
Total TEQs (WHO TEFs)	0.000025	0.00000055	NA	0.000014	0.000028	0.00000055	0.00000023
<b>Inorganics</b>							
Antimony	ND(7.60)	ND(7.20)	NA	ND(7.30)	ND(7.80)	ND(6.70)	ND(6.90)
Arsenic	3.70	3.50	NA	3.20	4.10	5.20	3.50
Barium	45.6	22.7 B	NA	31.7	47.1	24.4	23.8
Beryllium	0.730	0.570 B	NA	0.650	0.820	0.620	0.530 B
Cadmium	0.790	0.490 B	NA	0.680	0.910	0.390 B	0.390 B
Chromium	21.7	8.00	NA	9.90	22.7	8.20	7.90
Cobalt	8.30	6.70	NA	8.50	7.60	6.80	7.70
Copper	28.9	11.2	NA	16.6	26.0	9.10	11.0
Cyanide	0.280 B	0.240 B	NA	0.220 B	0.320 B	ND(0.560)	ND(0.570)
Lead	51.2	7.50	NA	29.5	52.9	9.90	6.70
Mercury	0.280	0.0440	NA	0.0550	0.240	0.0510	0.0420
Nickel	16.4	12.2	NA	16.5	15.2	10.8	12.8
Selenium	0.600 B	ND(0.600)	NA	ND(0.610)	0.410 B	ND(0.560)	ND(0.570)
Silver	0.540 B	ND(1.20)	NA	ND(1.20)	0.0900 B	ND(1.10)	ND(1.10)
Sulfide	37.2	ND(12.0)	NA	ND(12.2)	ND(13.0)	ND(11.2)	ND(11.4)
Thallium	0.950 B	0.710 B	NA	0.830 B	0.860 B	ND(1.10)	ND(1.10)
Tin	ND(7.50)	ND(5.60)	NA	ND(5.60)	ND(8.00)	ND(5.80)	ND(5.20)
Vanadium	19.4	7.10	NA	11.9	13.8	11.2	9.10
Zinc	93.7	46.0	NA	74.7	95.7	37.9	39.7

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-10-4					
	Sample ID:	RAA15-G11	RAA15-G11	RAA15-G11	RAA15-G11	RAA15-G13	RAA15-H8
Sample Depth(Feet):	RAA15-N6	0-1	1-3	3-6	4-6	0-1	0-1
Date Collected:	4-6 02/13/03	02/13/03	02/13/03	02/13/03	02/13/03	02/13/03	02/13/03
<b>Volatile Organics</b>							
1,1,1,2-Tetrachloroethane	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
1,1,1-Trichloroethane	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
1,1,2,2-Tetrachloroethane	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
1,1,2-Trichloroethane	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
1,1-Dichloroethane	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
1,1-Dichloroethene	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
1,2,3-Trichloropropane	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
1,2-Dibromo-3-chloropropane	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
1,2-Dibromoethane	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
1,2-Dichloroethane	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
1,2-Dichloropropane	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
1,4-Dioxane	ND(1.1) J	ND(1.3) J	ND(1.0) J	NA	ND(1.1) J	ND(1.3) J	ND(0.91) J
2-Butanone	ND(0.0053) J	ND(0.0065) J	ND(0.0051) J	NA	ND(0.0057) J	ND(0.0063) J	ND(0.0045) J
2-Chloro-1,3-butadiene	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
2-Chloroethylvinylether	ND(0.011) J	ND(0.013) J	ND(0.010) J	NA	ND(0.011) J	ND(0.013) J	ND(0.0091) J
2-Hexanone	ND(0.021)	ND(0.026)	ND(0.021)	NA	ND(0.023)	ND(0.025)	ND(0.018)
3-Chloropropene	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
4-Methyl-2-pentanone	ND(0.021)	ND(0.026)	ND(0.021)	NA	ND(0.023)	ND(0.025)	ND(0.018)
Acetone	ND(0.021) J	0.0076 J	ND(0.021) J	NA	ND(0.023) J	ND(0.025) J	ND(0.018) J
Acetonitrile	ND(0.11) J	ND(0.13) J	ND(0.10) J	NA	ND(0.11) J	ND(0.13) J	ND(0.091) J
Acrolein	ND(0.11) J	ND(0.13) J	ND(0.10) J	NA	ND(0.11) J	ND(0.13) J	ND(0.091) J
Acrylonitrile	ND(0.11)	ND(0.13)	ND(0.10)	NA	ND(0.11)	ND(0.13)	ND(0.091)
Benzene	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Bromodichloromethane	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Bromoform	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Bromomethane	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Carbon Disulfide	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Carbon Tetrachloride	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Chlorobenzene	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Chloroethane	ND(0.011)	ND(0.013)	ND(0.010)	NA	ND(0.011)	ND(0.013)	ND(0.0091)
Chloroform	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Chloromethane	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
cis-1,3-Dichloropropene	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Dibromochloromethane	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Dibromomethane	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Dichlorodifluoromethane	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Ethyl Methacrylate	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Ethylbenzene	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Iodomethane	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Isobutanol	ND(0.21) J	ND(0.26) J	ND(0.21) J	NA	ND(0.23) J	ND(0.25) J	ND(0.18) J
Methacrylonitrile	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Methyl Methacrylate	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Methylene Chloride	0.0011 J	0.0017 J	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Propionitrile	ND(0.011)	ND(0.013)	ND(0.010)	NA	ND(0.011)	ND(0.013)	ND(0.0091)
Styrene	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Tetrachloroethene	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Toluene	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
trans-1,2-Dichloroethene	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
trans-1,3-Dichloropropene	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
trans-1,4-Dichloro-2-butene	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Trichloroethene	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Trichlorofluoromethane	ND(0.0053) J	ND(0.0065) J	ND(0.0051) J	NA	ND(0.0057) J	ND(0.0063) J	ND(0.0045) J
Vinyl Acetate	ND(0.0053)	ND(0.0065)	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
Vinyl Chloride	ND(0.011)	ND(0.013)	ND(0.010)	NA	ND(0.011)	ND(0.013)	ND(0.0091)
Xylenes (total)	ND(0.0053)	0.0027 J	ND(0.0051)	NA	ND(0.0057)	ND(0.0063)	ND(0.0045)
<b>Semivolatile Organics</b>							
1,2,4,5-Tetrachlorobenzene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)
1,2,4-Trichlorobenzene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)
1,2-Dichlorobenzene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)
1,2-Diphenylhydrazine	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)
1,3,5-Trinitrobenzene	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)
1,3-Dichlorobenzene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parameter	Parcel ID:	K10-10-4						
	Sample ID:	RAA15-N6	RAA15-G11	RAA15-G11	RAA15-G11	RAA15-G11	RAA15-G13	RAA15-H8
	Sample Depth(Feet): Date Collected:	4-6 02/13/03	0-1 02/13/03	1-3 02/13/03	3-6 02/13/03	4-6 02/13/03	0-1 02/13/03	0-1 02/13/03
<b>Semivolatile Organics (continued)</b>								
1,3-Dinitrobenzene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
1,4-Dichlorobenzene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
1,4-Naphthoquinone	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	0.042 J	
1-Naphthylamine	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
2,3,4,6-Tetrachlorophenol	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
2,4,5-Trichlorophenol	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
2,4,6-Trichlorophenol	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
2,4-Dichlorophenol	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
2,4-Dimethylphenol	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
2,4-Dinitrophenol	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
2,4-Dinitrotoluene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
2,6-Dichlorophenol	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
2,6-Dinitrotoluene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
2-Acetylaminofluorene	NA	ND(0.82)	ND(0.74)	ND(0.87)	NA	ND(0.85)	ND(0.78)	
2-Chloronaphthalene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
2-Chlorophenol	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
2-Methylnaphthalene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
2-Methylphenol	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
2-Naphthylamine	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
2-Nitroaniline	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
2-Nitrophenol	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
2-Picoline	NA	ND(0.82)	ND(0.74)	ND(0.87)	NA	ND(0.85)	ND(0.78)	
3&4-Methylphenol	NA	ND(0.82)	ND(0.74)	ND(0.87)	NA	ND(0.85)	ND(0.78)	
3,3'-Dichlorobenzidine	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
3,3'-Dimethylbenzidine	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
3-Methylcholanthrene	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
3-Nitroaniline	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
4,6-Dinitro-2-methylphenol	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
4-Aminobiphenyl	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
4-Bromophenyl-phenylether	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
4-Chloro-3-Methylphenol	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
4-Chloroaniline	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
4-Chlorobenzilate	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
4-Chlorophenyl-phenylether	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
4-Nitroaniline	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
4-Nitrophenol	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
4-Nitroquinoline-1-oxide	NA	ND(4.1)	ND(3.7)	ND(4.3)	NA	ND(4.2)	ND(3.9)	
4-Phenylenediamine	NA	ND(8.2)	ND(7.4)	ND(8.7)	NA	ND(8.5)	ND(7.8)	
5-Nitro-o-toluidine	NA	ND(0.82)	ND(0.74)	ND(0.87)	NA	ND(0.85)	ND(0.78)	
7,12-Dimethylbenz(a)anthracene	NA	ND(0.82)	ND(0.74)	ND(0.87)	NA	ND(0.85)	ND(0.78)	
a,a'-Dimethylphenethylamine	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
Acenaphthene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Acenaphthylene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	0.061 J	ND(0.39)	
Acetophenone	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Aniline	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Anthracene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	0.053 J	ND(0.39)	
Aramite	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
Benzidine	NA	ND(4.1)	ND(3.7)	ND(4.3)	NA	ND(4.2)	ND(3.9)	
Benzo(a)anthracene	NA	0.075 J	ND(0.37)	ND(0.43)	NA	0.20 J	0.084 J	
Benzo(a)pyrene	NA	0.088 J	ND(0.37)	ND(0.43)	NA	0.23 J	0.099 J	
Benzo(b)fluoranthene	NA	0.089 J	ND(0.37)	ND(0.43)	NA	0.23 J	0.090 J	
Benzo(g,h,i)perylene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	0.081 J	ND(0.39)	
Benzo(k)fluoranthene	NA	0.097 J	ND(0.37)	ND(0.43)	NA	0.27 J	0.10 J	
Benzyl Alcohol	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
bis(2-Chloroethoxy)methane	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
bis(2-Chloroethyl)ether	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
bis(2-Chloroisopropyl)ether	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
bis(2-Ethylhexyl)phthalate	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Butylbenzylphthalate	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Chrysene	NA	0.11 J	ND(0.37)	ND(0.43)	NA	0.28 J	0.11 J	
Diallate	NA	ND(0.82)	ND(0.74)	ND(0.87)	NA	ND(0.85)	ND(0.78)	
Dibenzo(a,h)anthracene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parameter	Parcel ID:	K10-10-4						
	Sample ID:	RAA15-N6	RAA15-G11	RAA15-G11	RAA15-G11	RAA15-G11	RAA15-G13	RAA15-H8
	Sample Depth(Feet): Date Collected:	4-6 02/13/03	0-1 02/13/03	1-3 02/13/03	3-6 02/13/03	4-6 02/13/03	0-1 02/13/03	0-1 02/13/03
<b>Semivolatile Organics (continued)</b>								
Dibenzofuran	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Diethylphthalate	NA	ND(0.41)	0.11 J	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Dimethylphthalate	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Di-n-Butylphthalate	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Di-n-Octylphthalate	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Diphenylamine	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Ethyl Methanesulfonate	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Fluoranthene	NA	0.17 J	ND(0.37)	ND(0.43)	NA	0.52	0.22 J	
Fluorene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Hexachlorobenzene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Hexachlorobutadiene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Hexachlorocyclopentadiene	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
Hexachloroethane	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Hexachlorophene	NA	ND(8.4)	ND(7.6)	ND(8.8)	NA	ND(8.6)	ND(7.9)	
Hexachloropropene	NA	ND(4.1)	ND(3.7)	ND(4.3)	NA	ND(4.2)	ND(3.9)	
Indeno(1,2,3-cd)pyrene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	0.10 J	ND(0.39)	
Isodrin	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Isophorone	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Isosafrole	NA	ND(0.82)	ND(0.74)	ND(0.87)	NA	ND(0.85)	ND(0.78)	
Methapyrilene	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
Methyl Methanesulfonate	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Naphthalene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Nitrobenzene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
N-Nitrosodiethylamine	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
N-Nitrosodimethylamine	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
N-Nitroso-di-n-butylamine	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
N-Nitroso-di-n-propylamine	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
N-Nitrosodiphenylamine	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
N-Nitrosomethylethylamine	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
N-Nitrosomorpholine	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
N-Nitrosopiperidine	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
N-Nitrosopyrrolidine	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
o,o,o-Triethylphosphorothioate	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
o-Toluidine	NA	ND(0.82)	ND(0.74)	ND(0.87)	NA	ND(0.85)	ND(0.78)	
p-Dimethylaminoazobenzene	NA	ND(0.82)	ND(0.74)	ND(0.87)	NA	ND(0.85)	ND(0.78)	
Pentachlorobenzene	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Pentachloroethane	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
Pentachloronitrobenzene	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
Pentachlorophenol	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
Phenacetin	NA	ND(0.82)	ND(0.74)	ND(0.87)	NA	ND(0.85)	ND(0.78)	
Phenanthrene	NA	0.096 J	ND(0.37)	ND(0.43)	NA	0.25 J	0.11 J	
Phenol	NA	ND(0.41)	ND(0.37)	ND(0.43)	NA	ND(0.42)	ND(0.39)	
Pronamide	NA	ND(0.82)	ND(0.74)	ND(0.87)	NA	ND(0.85)	ND(0.78)	
Pyrene	NA	0.13 J	ND(0.37)	ND(0.43)	NA	0.33 J	0.14 J	
Pyridine	NA	ND(0.82)	ND(0.74)	ND(0.87)	NA	ND(0.85)	ND(0.78)	
Safrole	NA	ND(0.82)	ND(0.74)	ND(0.87)	NA	ND(0.85)	ND(0.78)	
Thionazin	NA	ND(2.0)	ND(1.8)	ND(2.1)	NA	ND(2.1)	ND(1.9)	
<b>Furans</b>								
2,3,7,8-TCDF	NA	0.0000092 Y	0.0000013 Y	ND(0.0000030) XJ	NA	0.000025 Y	0.0000057 YJ	
TCDFs (total)	NA	0.000051	0.0000013	ND(0.0000030) XJ	NA	0.00010	0.000027 J	
1,2,3,7,8-PeCDF	NA	ND(0.0000027) X	ND(0.0000052) X	ND(0.0000032) XJ	NA	0.0000073	ND(0.0000023) XJ	
2,3,4,7,8-PeCDF	NA	ND(0.0000027) X	ND(0.0000025) X	ND(0.0000030) XJ	NA	0.0000069	0.0000038 J	
PeCDFs (total)	NA	0.0000049	ND(0.0000052) X	ND(0.0000032) XJ	NA	0.000031	0.000012 J	
1,2,3,4,7,8-HxCDF	NA	0.0000039 J	ND(0.0000043) X	ND(0.0000024) X	NA	0.0000066	0.0000051 J	
1,2,3,6,7,8-HxCDF	NA	ND(0.0000016) X	ND(0.0000016) X	ND(0.0000016) X	NA	0.0000034 J	0.0000034 J	
1,2,3,7,8,9-HxCDF	NA	ND(0.0000052) X	ND(0.0000046) X	ND(0.0000012) X	NA	ND(0.0000021)	ND(0.0000010)	
2,3,4,6,7,8-HxCDF	NA	ND(0.0000016) X	ND(0.0000011) X	ND(0.0000017) X	NA	ND(0.0000030) X	ND(0.0000022) X	
HxCDFs (total)	NA	0.000024	ND(0.0000043) X	ND(0.0000024) X	NA	0.000056	0.000067	
1,2,3,4,6,7,8-HpCDF	NA	0.000014	ND(0.0000038)	ND(0.0000016) X	NA	0.000049	0.00013	
1,2,3,4,7,8,9-HpCDF	NA	ND(0.0000070) X	ND(0.00000073)	ND(0.0000012) X	NA	ND(0.0000017) X	ND(0.0000021) X	
HpCDFs (total)	NA	0.000025	ND(0.0000038)	ND(0.0000016) X	NA	0.000093	0.00024	
OCDF	NA	0.000013	ND(0.0000041)	ND(0.0000029)	NA	0.000055	0.000094	

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-10-4					
	Sample ID:	RAA15-G11	RAA15-G11	RAA15-G11	RAA15-G11	RAA15-G13	RAA15-H8
Sample Depth(Feet):	RAA15-N6	0-1	1-3	3-6	4-6	0-1	0-1
Date Collected:	4-6	02/13/03	02/13/03	02/13/03	02/13/03	02/13/03	02/13/03
<b>Dioxins</b>							
2,3,7,8-TCDD	NA	ND(0.0000022) X	ND(0.00000056)	ND(0.00000020) XJ	NA	ND(0.0000018) X	ND(0.0000018) J
TCDDs (total)	NA	ND(0.0000051) X	ND(0.00000068) X	ND(0.00000020) XJ	NA	ND(0.0000059) X	ND(0.0000031) J
1,2,3,7,8-PeCDD	NA	ND(0.0000030) X	ND(0.00000015)	ND(0.00000022)	NA	ND(0.0000053) X	ND(0.0000057) J
PeCDDs (total)	NA	ND(0.0000034) X	ND(0.00000027) X	ND(0.00000066) X	NA	ND(0.0000088) X	ND(0.0000057) J
1,2,3,4,7,8-HxCDD	NA	ND(0.0000024) X	ND(0.00000011) X	ND(0.00000017) X	NA	ND(0.0000053) X	ND(0.0000052) X
1,2,3,6,7,8-HxCDD	NA	ND(0.0000056) X	ND(0.00000011) X	ND(0.00000014) X	NA	ND(0.0000021) X	ND(0.0000025) X
1,2,3,7,8,9-HxCDD	NA	ND(0.0000052) X	ND(0.00000015) X	ND(0.00000014) X	NA	ND(0.0000012) X	ND(0.0000016) X
HxCDDs (total)	NA	ND(0.0000018) X	ND(0.00000016) X	ND(0.00000017) X	NA	0.000084	0.000013
1,2,3,4,6,7,8-HpCDD	NA	0.000012	ND(0.00000045) X	ND(0.00000055) X	NA	0.000047	0.000067
HpCDDs (total)	NA	0.000021	ND(0.00000045) X	ND(0.00000055) X	NA	0.000082	0.00012
OCDD	NA	0.00012	ND(0.0000035) X	ND(0.0000042) X	NA	0.00053	0.00064
Total TEQs (WHO TEFs)	NA	0.0000028	0.0000037	0.0000037	NA	0.000090	0.000062
<b>Inorganics</b>							
Antimony	NA	ND(7.50)	ND(6.80)	ND(7.90)	NA	ND(7.70)	ND(7.10)
Arsenic	NA	4.50	2.30	2.20	NA	4.40	3.00
Barium	NA	53.5	29.7	45.4	NA	39.8	59.5
Beryllium	NA	0.710	0.590	0.840	NA	0.760	0.610
Cadmium	NA	0.590 B	0.380 B	0.430 B	NA	0.580 B	0.740
Chromium	NA	15.6	12.6	11.5	NA	23.2	9.60
Cobalt	NA	8.70	7.00	8.30	NA	6.40 B	6.90
Copper	NA	16.9	13.8	11.1	NA	20.9	14.3
Cyanide	NA	ND(0.620)	ND(0.560)	ND(0.660)	NA	0.260 B	ND(0.590)
Lead	NA	31.3	12.7	6.60	NA	56.2	24.5
Mercury	NA	0.160	0.150	0.0590	NA	0.250	0.220
Nickel	NA	14.3	12.5	14.9	NA	12.5	13.0
Selenium	NA	ND(0.620)	ND(0.560)	ND(0.660)	NA	0.840	0.380 B
Silver	NA	ND(1.30)	ND(1.10)	ND(1.30)	NA	ND(1.30)	ND(1.20)
Sulfide	NA	ND(12.5)	ND(11.3)	ND(13.1)	NA	ND(12.8)	ND(11.8)
Thallium	NA	0.770 B	0.750 B	0.880 B	NA	ND(1.30)	0.850 B
Tin	NA	ND(7.20)	ND(5.90)	ND(5.40)	NA	ND(8.00)	ND(6.40)
Vanadium	NA	16.3	9.90	12.7	NA	15.1	10.0
Zinc	NA	70.0	47.7	58.4	NA	79.4	148



**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-10-4			K10-10-5			
	RAA15-H8 1-3 02/13/03	RAA15-H8 10-12 02/19/03	RAA15-H8 10-15 02/13/03	RAA15-H11 0-1 02/12/03	RAA15-H13 1-3 02/12/03	RAA15-J9 1-3 02/20/03	RAA15-J9 3-5 02/20/03
<b>Volatile Organics</b>							
1,1,1,2-Tetrachloroethane	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
1,1,1-Trichloroethane	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
1,1,2,2-Tetrachloroethane	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
1,1,2-Trichloroethane	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
1,1-Dichloroethane	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
1,1-Dichloroethene	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
1,2,3-Trichloropropane	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
1,2-Dibromo-3-chloropropane	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
1,2-Dibromoethane	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
1,2-Dichloroethane	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
1,2-Dichloropropane	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
1,4-Dioxane	ND(1.2) J	ND(1.4) J	NA	ND(1.3) J	ND(1.1) J	ND(1.0) J	NA
2-Butanone	ND(0.0058) J	ND(0.0070) J	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
2-Chloro-1,3-butadiene	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
2-Chloroethylvinylether	ND(0.012) J	ND(0.014) J	NA	ND(0.013) J	ND(0.011) J	ND(0.010) J	NA
2-Hexanone	ND(0.023)	ND(0.028)	NA	ND(0.026)	ND(0.022)	ND(0.020)	NA
3-Chloropropene	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
4-Methyl-2-pentanone	ND(0.023)	ND(0.028)	NA	ND(0.026)	ND(0.022)	ND(0.020)	NA
Acetone	ND(0.023) J	ND(0.028) J	NA	ND(0.026) J	ND(0.022) J	ND(0.020)	NA
Acetonitrile	ND(0.12) J	ND(0.14) J	NA	ND(0.13) J	ND(0.11) J	ND(0.10) J	NA
Acrolein	ND(0.12) J	ND(0.14) J	NA	ND(0.13) J	ND(0.11) J	ND(0.10) J	NA
Acrylonitrile	ND(0.12)	ND(0.14)	NA	ND(0.13)	ND(0.11)	ND(0.10)	NA
Benzene	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Bromodichloromethane	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Bromoform	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Bromomethane	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Carbon Disulfide	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Carbon Tetrachloride	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Chlorobenzene	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Chloroethane	ND(0.012)	ND(0.014)	NA	ND(0.013)	ND(0.011)	ND(0.010)	NA
Chloroform	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Chloromethane	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
cis-1,3-Dichloropropene	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Dibromochloromethane	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Dibromomethane	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Dichlorodifluoromethane	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Ethyl Methacrylate	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Ethylbenzene	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Iodomethane	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Isobutanol	ND(0.23) J	ND(0.28) J	NA	ND(0.26) J	ND(0.22) J	ND(0.20)	NA
Methacrylonitrile	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Methyl Methacrylate	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Methylene Chloride	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Propionitrile	ND(0.012)	ND(0.014)	NA	ND(0.013) J	ND(0.011) J	ND(0.010) J	NA
Styrene	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Tetrachloroethene	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Toluene	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
trans-1,2-Dichloroethene	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
trans-1,3-Dichloropropene	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
trans-1,4-Dichloro-2-butene	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Trichloroethene	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Trichlorofluoromethane	ND(0.0058) J	ND(0.0070) J	NA	ND(0.0064) J	ND(0.0055) J	ND(0.0051)	NA
Vinyl Acetate	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
Vinyl Chloride	ND(0.012)	ND(0.014)	NA	ND(0.013)	ND(0.011)	ND(0.010)	NA
Xylenes (total)	ND(0.0058)	ND(0.0070)	NA	ND(0.0064)	ND(0.0055)	ND(0.0051)	NA
<b>Semivolatile Organics</b>							
1,2,4,5-Tetrachlorobenzene	ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
1,2,4-Trichlorobenzene	ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
1,2-Dichlorobenzene	ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
1,2-Diphenylhydrazine	ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
1,3,5-Trinitrobenzene	ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
1,3-Dichlorobenzene	ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parameter	Parcel ID:	K10-10-4			K10-10-5			
	Sample ID:	RAA15-H8	RAA15-H8	RAA15-H8	RAA15-H11	RAA15-H13	RAA15-J9	RAA15-J9
	Sample Depth(Feet): Date Collected:	1-3 02/13/03	10-12 02/19/03	10-15 02/13/03	0-1 02/12/03	1-3 02/12/03	1-3 02/20/03	3-5 02/20/03
<b>Semivolatile Organics (continued)</b>								
1,3-Dinitrobenzene		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
1,4-Dichlorobenzene		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
1,4-Naphthoquinone		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
1-Naphthylamine		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
2,3,4,6-Tetrachlorophenol		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
2,4,5-Trichlorophenol		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
2,4,6-Trichlorophenol		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
2,4-Dichlorophenol		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
2,4-Dimethylphenol		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
2,4-Dinitrophenol		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
2,4-Dinitrotoluene		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
2,6-Dichlorophenol		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
2,6-Dinitrotoluene		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
2-Acetylaminofluorene		ND(0.73)	NA	ND(0.86)	ND(0.82)	ND(0.76)	ND(0.73)	ND(0.78)
2-Chloronaphthalene		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
2-Chlorophenol		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
2-Methylnaphthalene		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
2-Methylphenol		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
2-Naphthylamine		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
2-Nitroaniline		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
2-Nitrophenol		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
2-Picoline		ND(0.73)	NA	ND(0.86)	ND(0.82)	ND(0.76)	ND(0.73)	ND(0.78)
3&4-Methylphenol		ND(0.73)	NA	ND(0.86)	ND(0.82)	ND(0.76)	ND(0.73)	ND(0.78)
3,3'-Dichlorobenzidine		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
3,3'-Dimethylbenzidine		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
3-Methylcholanthrene		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
3-Nitroaniline		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
4,6-Dinitro-2-methylphenol		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
4-Aminobiphenyl		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
4-Bromophenyl-phenylether		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
4-Chloro-3-Methylphenol		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
4-Chloroaniline		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
4-Chlorobenzilate		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
4-Chlorophenyl-phenylether		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
4-Nitroaniline		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
4-Nitrophenol		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
4-Nitroquinoline-1-oxide		ND(3.6)	NA	ND(4.3)	ND(4.1)	ND(3.8)	ND(3.7)	ND(3.9)
4-Phenylenediamine		ND(7.3)	NA	ND(8.6)	ND(8.2)	ND(7.6)	ND(7.3)	ND(7.8)
5-Nitro-o-toluidine		ND(0.73)	NA	ND(0.86)	ND(0.82)	ND(0.76)	ND(0.73)	ND(0.78)
7,12-Dimethylbenz(a)anthracene		ND(0.73)	NA	ND(0.86)	ND(0.82)	ND(0.76)	ND(0.73)	ND(0.78)
a,a'-Dimethylphenethylamine		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
Acenaphthene		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Acenaphthylene		0.024 J	NA	ND(0.43)	0.057 J	ND(0.38)	ND(0.37)	ND(0.39)
Acetophenone		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Aniline		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Anthracene		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Aramite		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
Benzidine		ND(3.6)	NA	ND(4.3)	ND(4.1)	ND(3.8)	ND(3.7)	ND(3.9)
Benzo(a)anthracene		0.063 J	NA	ND(0.43)	0.16 J	ND(0.38)	ND(0.37)	ND(0.39)
Benzo(a)pyrene		0.073 J	NA	ND(0.43)	0.19 J	ND(0.38)	ND(0.37)	ND(0.39)
Benzo(b)fluoranthene		0.066 J	NA	ND(0.43)	0.17 J	ND(0.38)	ND(0.37)	ND(0.39)
Benzo(g,h,i)perylene		ND(0.36)	NA	ND(0.43)	0.10 J	ND(0.38)	ND(0.37)	ND(0.39)
Benzo(k)fluoranthene		0.079 J	NA	ND(0.43)	0.18 J	ND(0.38)	ND(0.37)	ND(0.39)
Benzyl Alcohol		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
bis(2-Chloroethoxy)methane		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
bis(2-Chloroethyl)ether		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
bis(2-Chloroisopropyl)ether		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
bis(2-Ethylhexyl)phthalate		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Butylbenzylphthalate		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Chrysene		0.090 J	NA	ND(0.43)	0.23 J	ND(0.38)	ND(0.37)	ND(0.39)
Diallate		ND(0.73)	NA	ND(0.86)	ND(0.82)	ND(0.76)	ND(0.73)	ND(0.78)
Dibenzo(a,h)anthracene		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-10-4			K10-10-5			
	Sample ID:	RAA15-H8	RAA15-H8	RAA15-H8	RAA15-H11	RAA15-H13	RAA15-J9	RAA15-J9
	Sample Depth(Feet): Date Collected:	1-3 02/13/03	10-12 02/19/03	10-15 02/13/03	0-1 02/12/03	1-3 02/12/03	1-3 02/20/03	3-5 02/20/03
<b>Semivolatile Organics (continued)</b>								
Dibenzofuran		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Diethylphthalate		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Dimethylphthalate		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Di-n-Butylphthalate		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Di-n-Octylphthalate		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Diphenylamine		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Ethyl Methanesulfonate		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Fluoranthene		0.16 J	NA	ND(0.43)	0.34 J	ND(0.38)	ND(0.37)	ND(0.39)
Fluorene		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Hexachlorobenzene		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Hexachlorobutadiene		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Hexachlorocyclopentadiene		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
Hexachloroethane		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Hexachlorophene		ND(7.4)	NA	ND(8.8)	ND(8.3)	ND(7.7)	ND(7.4) J	ND(7.9) J
Hexachloropropene		ND(3.6)	NA	ND(4.3)	ND(4.1)	ND(3.8)	ND(3.7)	ND(3.9)
Indeno(1,2,3-cd)pyrene		ND(0.36)	NA	ND(0.43)	0.12 J	ND(0.38)	ND(0.37)	ND(0.39)
Isodrin		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Isophorone		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Isosafrole		ND(0.73)	NA	ND(0.86)	ND(0.82)	ND(0.76)	ND(0.73)	ND(0.78)
Methapyriene		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
Methyl Methanesulfonate		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Naphthalene		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Nitrobenzene		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
N-Nitrosodiethylamine		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
N-Nitrosodimethylamine		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
N-Nitroso-di-n-butylamine		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
N-Nitroso-di-n-propylamine		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
N-Nitrosodiphenylamine		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
N-Nitrosomethylethylamine		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
N-Nitrosomorpholine		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
N-Nitrosopiperidine		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
N-Nitrosopyrrolidine		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
o,o,o-Triethylphosphorothioate		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
o-Toluidine		ND(0.73)	NA	ND(0.86)	ND(0.82)	ND(0.76)	ND(0.73)	ND(0.78)
p-Dimethylaminoazobenzene		ND(0.73)	NA	ND(0.86)	ND(0.82)	ND(0.76)	ND(0.73)	ND(0.78)
Pentachlorobenzene		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Pentachloroethane		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
Pentachloronitrobenzene		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
Pentachlorophenol		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
Phenacetin		ND(0.73)	NA	ND(0.86)	ND(0.82)	ND(0.76)	ND(0.73)	ND(0.78)
Phenanthrene		0.088 J	NA	ND(0.43)	0.18 J	ND(0.38)	ND(0.37)	ND(0.39)
Phenol		ND(0.36)	NA	ND(0.43)	ND(0.41)	ND(0.38)	ND(0.37)	ND(0.39)
Pronamide		ND(0.73)	NA	ND(0.86)	ND(0.82)	ND(0.76)	ND(0.73)	ND(0.78)
Pyrene		0.12 J	NA	ND(0.43)	0.30 J	ND(0.38)	ND(0.37)	ND(0.39)
Pyridine		ND(0.73)	NA	ND(0.86)	ND(0.82)	ND(0.76)	ND(0.73)	ND(0.78)
Safrole		ND(0.73)	NA	ND(0.86)	ND(0.82)	ND(0.76)	ND(0.73)	ND(0.78)
Thionazin		ND(1.8)	NA	ND(2.1)	ND(2.0)	ND(1.8)	ND(1.8)	ND(1.9)
<b>Furans</b>								
2,3,7,8-TCDF		0.0000034 Y	NA	0.000012 Y	0.000032 Y	0.0000011 QYJ	ND(0.00000027)	ND(0.00000025)
TCDFs (total)		0.000017	NA	0.000050	0.00020	0.0000033	ND(0.00000027)	ND(0.00000026) X
1,2,3,7,8-PeCDF		ND(0.0000011) X	NA	0.0000033 J	0.0000094	ND(0.0000011) J	ND(0.00000015)	ND(0.00000012)
2,3,4,7,8-PeCDF		ND(0.0000018) X	NA	0.0000054 J	0.0000095	ND(0.0000011)	ND(0.00000015)	ND(0.00000012)
PeCDFs (total)		0.0000047	NA	0.000070	0.00016	ND(0.0000011) J	ND(0.00000015)	ND(0.00000012)
1,2,3,4,7,8-HxCDF		ND(0.0000024) X	NA	0.000016	0.0000090	ND(0.0000011)	ND(0.000000088)	ND(0.000000078)
1,2,3,6,7,8-HxCDF		ND(0.0000015) X	NA	0.0000079	0.0000064	ND(0.0000010)	ND(0.000000081)	ND(0.000000072)
1,2,3,7,8,9-HxCDF		ND(0.0000044)	NA	ND(0.0000015)	ND(0.0000014)	ND(0.0000013)	ND(0.00000010)	ND(0.000000092)
2,3,4,6,7,8-HxCDF		ND(0.0000011) X	NA	0.000013	0.0000045 J	ND(0.0000012)	ND(0.000000093)	ND(0.000000083)
HxCDFs (total)		0.000056	NA	0.00037	0.00011	ND(0.0000013)	ND(0.000000091)	ND(0.000000080)
1,2,3,4,6,7,8-HpCDF		0.00013	NA	0.00012	0.000049	ND(0.0000010) X	ND(0.00000036) X	ND(0.000000012)
1,2,3,4,7,8,9-HpCDF		ND(0.0000013) X	NA	0.0000098	ND(0.0000024) X	ND(0.0000010)	ND(0.00000017)	ND(0.00000015)
HpCDFs (total)		0.00023	NA	0.00031	0.000095	ND(0.0000010)	ND(0.00000064) X	ND(0.00000013)
OCDF		0.000085	NA	0.00020	0.000053	ND(0.0000021)	ND(0.00000035) X	ND(0.00000027)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-10-4			K10-10-5			
	Sample ID: Sample Depth(Feet): Date Collected:	RAA15-H8 1-3 02/13/03	RAA15-H8 10-12 02/19/03	RAA15-H8 10-15 02/13/03	RAA15-H11 0-1 02/12/03	RAA15-H13 1-3 02/12/03	RAA15-J9 1-3 02/20/03	RAA15-J9 3-5 02/20/03
<b>Dioxins</b>								
2,3,7,8-TCDD		ND(0.0000013) X	NA	ND(0.0000048) X	ND(0.0000037)	ND(0.0000082)	ND(0.0000038)	ND(0.0000034)
TCDDs (total)		ND(0.0000026)	NA	0.000018	0.000026	ND(0.0000082)	ND(0.0000038)	ND(0.0000034)
1,2,3,7,8-PeCDD		ND(0.0000036)	NA	0.000064 J	ND(0.0000078)	ND(0.000014) J	ND(0.0000016)	ND(0.0000014)
PeCDDs (total)		ND(0.0000058) X	NA	0.000036	ND(0.000025)	ND(0.000014) J	ND(0.0000016)	ND(0.0000066) X
1,2,3,4,7,8-HxCDD		ND(0.0000061) X	NA	0.000054 J	ND(0.0000065) X	ND(0.000014)	ND(0.0000017)	ND(0.0000016)
1,2,3,6,7,8-HxCDD		0.000032 J	NA	0.000019	ND(0.000023) X	ND(0.000013)	ND(0.0000016)	ND(0.0000015)
1,2,3,7,8,9-HxCDD		ND(0.000014) X	NA	0.000075	ND(0.000011) X	ND(0.000012)	ND(0.0000017)	ND(0.0000016)
HxCDDs (total)		0.000017	NA	0.00015	0.00011	ND(0.000014)	ND(0.0000017)	ND(0.0000031) X
1,2,3,4,6,7,8-HpCDD		0.000094	NA	0.00021	0.00043	ND(0.000013)	0.0000036 J	ND(0.0000017)
HpCDDs (total)		0.00018	NA	0.00038	0.00076	ND(0.000013)	0.0000036 J	ND(0.0000017)
OCDD		0.0010	NA	0.0018	0.00044	0.00014	0.000033 J	0.000017 J
Total TEQs (WHO TEFs)		0.000041	NA	0.00021	0.00012	0.000020	0.0000037	0.0000033
<b>Inorganics</b>								
Antimony		ND(6.60)	NA	ND(7.80)	ND(7.40) J	ND(6.90) J	ND(6.60)	ND(7.10)
Arsenic		3.20	NA	1.50	4.40	2.20	2.80	4.40
Barium		25.5	NA	19.5 B	57.8	21.5 B	29.3	32.9
Beryllium		0.620	NA	0.600 B	0.740	0.360 B	0.190 B	0.180 B
Cadmium		0.410 B	NA	0.310 B	0.650	0.250 B	0.190 B	0.340 B
Chromium		10.7	NA	7.80	27.2	7.20	9.30	10.8
Cobalt		5.60	NA	5.20 B	9.30	3.30 B	6.40	10.0
Copper		14.4	NA	6.40	26.6	5.10	7.50	19.6
Cyanide		ND(0.550)	NA	ND(0.650)	0.280 B	0.230 B	ND(0.550)	ND(0.590)
Lead		17.1	NA	7.50	52.0	5.90	4.80	8.30
Mercury		0.110	NA	0.0380 B	0.230	ND(0.0690)	0.0370 B	ND(0.0390)
Nickel		11.3	NA	9.50	16.7	6.80	11.2	18.4
Selenium		ND(0.550)	NA	ND(0.650)	ND(0.620)	0.350 B	ND(0.550)	ND(0.590)
Silver		ND(1.10)	NA	ND(1.30)	ND(1.20)	ND(1.20)	ND(1.10)	ND(1.20)
Sulfide		ND(11.0)	NA	ND(13.1)	ND(12.4)	ND(11.5)	ND(11.1)	ND(11.8)
Thallium		0.690 B	NA	ND(1.30)	1.10 B	0.680 B	ND(1.10)	ND(1.20)
Tin		ND(4.90)	NA	ND(5.50)	ND(8.10)	ND(4.80)	ND(4.60)	ND(4.70)
Vanadium		7.70	NA	8.20	15.3	9.60	10.1	13.2
Zinc		47.9	NA	38.8	92.2	26.7	44.9	61.7

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-10-5		K10-10-6				K10-10-33	
	RAA15-J9 4-5 02/20/03	RAA15-L13 3-5 02/11/03	RAA15-L16 0-1 02/12/03	RAA15-M11 0-1 02/12/03	RAA15-P13 1-3 02/10/03	RAA15-E18 0-1 02/20/03	RAA15-E18 1-3 02/20/03	
<b>Volatile Organics</b>								
1,1,1,2-Tetrachloroethane	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
1,1,1-Trichloroethane	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
1,1,2,2-Tetrachloroethane	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
1,1,2-Trichloroethane	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
1,1-Dichloroethane	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
1,1-Dichloroethene	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
1,2,3-Trichloropropane	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
1,2-Dibromo-3-chloropropane	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
1,2-Dibromoethane	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
1,2-Dichloroethane	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
1,2-Dichloropropane	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
1,4-Dioxane	ND(0.93) J	ND(1.0) J	ND(1.3) J	ND(1.2) J	ND(1.1) J	ND(1.3) J	ND(1.3) J	
2-Butanone	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	0.0013 J	
2-Chloro-1,3-butadiene	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
2-Chloroethylvinylether	ND(0.0093) J	ND(0.010) J	ND(0.013) J	ND(0.012) J	ND(0.011) J	ND(0.013) J	ND(0.013) J	
2-Hexanone	ND(0.019)	ND(0.020)	ND(0.026)	ND(0.024)	ND(0.021)	ND(0.025)	ND(0.026)	
3-Chloropropene	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
4-Methyl-2-pentanone	ND(0.019)	ND(0.020)	ND(0.026)	ND(0.024)	ND(0.021)	ND(0.025)	ND(0.026)	
Acetone	ND(0.019)	ND(0.020) J	0.0097 J	ND(0.024) J	ND(0.021) J	ND(0.025)	ND(0.026)	
Acetonitrile	ND(0.093) J	ND(0.10) J	ND(0.13) J	ND(0.12) J	ND(0.11) J	ND(0.13) J	ND(0.13) J	
Acrolein	ND(0.093) J	ND(0.10) J	ND(0.13) J	ND(0.12) J	ND(0.11) J	ND(0.13) J	ND(0.13) J	
Acrylonitrile	ND(0.093)	ND(0.10)	ND(0.13)	ND(0.12)	ND(0.11)	ND(0.13)	ND(0.13)	
Benzene	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Bromodichloromethane	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Bromoform	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Bromomethane	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Carbon Disulfide	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Carbon Tetrachloride	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Chlorobenzene	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Chloroethane	ND(0.0093)	ND(0.010)	ND(0.013)	ND(0.012)	ND(0.011)	ND(0.013)	ND(0.013)	
Chloroform	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Chloromethane	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
cis-1,3-Dichloropropene	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Dibromochloromethane	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Dibromomethane	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Dichlorodifluoromethane	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Ethyl Methacrylate	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Ethylbenzene	ND(0.0047)	0.00050 J	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Iodomethane	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Isobutanol	ND(0.19)	ND(0.20) J	ND(0.26) J	ND(0.24) J	ND(0.21) J	ND(0.25)	ND(0.26)	
Methacrylonitrile	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Methyl Methacrylate	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Methylene Chloride	ND(0.0047)	0.0011 J	ND(0.0064)	ND(0.0059)	0.00096 J	ND(0.0063)	ND(0.0064)	
Propionitrile	ND(0.0093) J	ND(0.010) J	ND(0.013) J	ND(0.012) J	ND(0.011) J	ND(0.013) J	ND(0.013) J	
Styrene	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Tetrachloroethene	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Toluene	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.00081)	
trans-1,2-Dichloroethene	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
trans-1,3-Dichloropropene	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
trans-1,4-Dichloro-2-butene	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Trichloroethene	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Trichlorofluoromethane	ND(0.0047)	ND(0.0050) J	ND(0.0064) J	ND(0.0059) J	ND(0.0053) J	ND(0.0063)	ND(0.0064)	
Vinyl Acetate	ND(0.0047)	ND(0.0050)	ND(0.0064)	ND(0.0059)	ND(0.0053)	ND(0.0063)	ND(0.0064)	
Vinyl Chloride	ND(0.0093)	ND(0.010)	ND(0.013)	ND(0.012)	ND(0.011)	ND(0.013)	ND(0.013)	
Xylenes (total)	ND(0.0047)	0.0034 J	ND(0.0064)	0.0014 J	ND(0.0053)	ND(0.0063)	ND(0.0064)	
<b>Semivolatile Organics</b>								
1,2,4,5-Tetrachlorobenzene	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)	
1,2,4-Trichlorobenzene	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)	
1,2-Dichlorobenzene	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)	
1,2-Diphenylhydrazine	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)	
1,3,5-Trinitrobenzene	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)	
1,3-Dichlorobenzene	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)	

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Date Collected:	K10-10-5		K10-10-6			K10-10-33	
	RAA15-J9 4-5 02/20/03	RAA15-L13 3-5 02/11/03	RAA15-L16 0-1 02/12/03	RAA15-M11 0-1 02/12/03	RAA15-P13 1-3 02/10/03	RAA15-E18 0-1 02/20/03	RAA15-E18 1-3 02/20/03
<b>Semivolatile Organics (continued)</b>							
1,3-Dinitrobenzene	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
1,4-Dichlorobenzene	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
1,4-Naphthoquinone	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
1-Naphthylamine	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
2,3,4,6-Tetrachlorophenol	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
2,4,5-Trichlorophenol	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
2,4,6-Trichlorophenol	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
2,4-Dichlorophenol	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
2,4-Dimethylphenol	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
2,4-Dinitrophenol	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
2,4-Dinitrotoluene	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
2,6-Dichlorophenol	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
2,6-Dinitrotoluene	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
2-Acetylaminofluorene	NA	ND(0.76)	ND(0.83)	ND(1.7)	ND(0.80)	ND(0.75)	ND(0.75)
2-Chloronaphthalene	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
2-Chlorophenol	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
2-Methylnaphthalene	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
2-Methylphenol	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
2-Naphthylamine	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
2-Nitroaniline	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
2-Nitrophenol	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
2-Picoline	NA	ND(0.76)	ND(0.83)	ND(1.7)	ND(0.80)	ND(0.75)	ND(0.75)
3&4-Methylphenol	NA	0.098 J	ND(0.83)	ND(1.7)	ND(0.80)	ND(0.75)	ND(0.75)
3,3'-Dichlorobenzidine	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
3,3'-Dimethylbenzidine	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
3-Methylcholanthrene	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
3-Nitroaniline	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
4,6-Dinitro-2-methylphenol	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
4-Aminobiphenyl	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
4-Bromophenyl-phenylether	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
4-Chloro-3-Methylphenol	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
4-Chloroaniline	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
4-Chlorobenzilate	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
4-Chlorophenyl-phenylether	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
4-Nitroaniline	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
4-Nitrophenol	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
4-Nitroquinoline-1-oxide	NA	ND(3.8)	ND(4.2)	ND(8.3)	ND(4.0)	ND(3.7)	ND(3.7)
4-Phenylenediamine	NA	ND(7.6)	ND(8.3)	ND(17)	ND(8.0)	ND(7.5)	ND(7.5)
5-Nitro-o-toluidine	NA	ND(0.76)	ND(0.83)	ND(1.7)	ND(0.80)	ND(0.75)	ND(0.75)
7,12-Dimethylbenz(a)anthracene	NA	ND(0.76)	ND(0.83)	ND(1.7)	ND(0.80)	ND(0.75)	ND(0.75)
a,a'-Dimethylphenethylamine	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
Acenaphthene	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Acenaphthylene	NA	0.042 J	0.20 J	0.10 J	0.037 J	ND(0.37)	ND(0.37)
Acetophenone	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Aniline	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Anthracene	NA	0.051 J	0.12 J	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Aramite	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
Benzidine	NA	ND(3.8)	ND(4.2)	ND(8.3)	ND(4.0)	ND(3.7)	ND(3.7)
Benzo(a)anthracene	NA	0.19 J	0.52	0.21 J	0.11 J	0.074 J	0.10 J
Benzo(a)pyrene	NA	0.22 J	0.63	0.22 J	0.13 J	0.076 J	0.095 J
Benzo(b)fluoranthene	NA	0.18 J	0.64	0.19 J	0.11 J	0.065 J	0.083 J
Benzo(g,h,i)perylene	NA	0.16 J	0.24 J	ND(0.83)	0.11 J	ND(0.37)	ND(0.37)
Benzo(k)fluoranthene	NA	0.21 J	0.57	0.23 J	0.14 J	0.078 J	0.090 J
Benzyl Alcohol	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
bis(2-Chloroethoxy)methane	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
bis(2-Chloroethyl)ether	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
bis(2-Chloroisopropyl)ether	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
bis(2-Ethylhexyl)phthalate	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Butylbenzylphthalate	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Chrysene	NA	0.23 J	0.76	0.27 J	0.17 J	0.091 J	0.12 J
Diallate	NA	ND(0.76)	ND(0.83)	ND(1.7)	ND(0.80)	ND(0.75)	ND(0.75)
Dibenzo(a,h)anthracene	NA	ND(0.38)	0.10 J	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Date Collected:	K10-10-5	K10-10-6				K10-10-33	
	RAA15-J9 4-5 02/20/03	RAA15-L13 3-5 02/11/03	RAA15-L16 0-1 02/12/03	RAA15-M11 0-1 02/12/03	RAA15-P13 1-3 02/10/03	RAA15-E18 0-1 02/20/03	RAA15-E18 1-3 02/20/03
<b>Semivolatile Organics (continued)</b>							
Dibenzofuran	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Diethylphthalate	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Dimethylphthalate	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Di-n-Butylphthalate	NA	0.13 J	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Di-n-Octylphthalate	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Diphenylamine	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Ethyl Methanesulfonate	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Fluoranthene	NA	0.36 J	1.3	0.37 J	0.23 J	0.16 J	0.20 J
Fluorene	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Hexachlorobenzene	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Hexachlorobutadiene	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Hexachlorocyclopentadiene	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
Hexachloroethane	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Hexachlorophene	NA	ND(7.8)	ND(8.4)	ND(17)	ND(8.1)	ND(7.6) J	ND(7.6) J
Hexachloropropene	NA	ND(3.8)	ND(4.2)	ND(8.3)	ND(4.0)	ND(3.7)	ND(3.7)
Indeno(1,2,3-cd)pyrene	NA	0.17 J	0.29 J	ND(0.83)	0.11 J	ND(0.37)	ND(0.37)
Isodrin	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Isophorone	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Isosafrole	NA	ND(0.76)	ND(0.83)	ND(1.7)	ND(0.80)	ND(0.75)	ND(0.75)
Methapyrilene	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
Methyl Methanesulfonate	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Naphthalene	NA	0.028 J	0.028 J	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Nitrobenzene	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
N-Nitrosodiethylamine	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
N-Nitrosodimethylamine	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
N-Nitroso-di-n-butylamine	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
N-Nitroso-di-n-propylamine	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
N-Nitrosodiphenylamine	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
N-Nitrosomethylethylamine	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
N-Nitrosomorpholine	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
N-Nitrosopiperidine	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
N-Nitrosopyrrolidine	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
o,o-Triethylphosphorothioate	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
o-Toluidine	NA	ND(0.76)	ND(0.83)	ND(1.7)	ND(0.80)	ND(0.75)	ND(0.75)
p-Dimethylaminoazobenzene	NA	ND(0.76)	ND(0.83)	ND(1.7)	ND(0.80)	ND(0.75)	ND(0.75)
Pentachlorobenzene	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Pentachloroethane	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
Pentachloronitrobenzene	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
Pentachlorophenol	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
Phenacetin	NA	ND(0.76)	ND(0.83)	ND(1.7)	ND(0.80)	ND(0.75)	ND(0.75)
Phenanthrene	NA	0.19 J	0.58	0.18 J	0.13 J	0.082 J	0.16 J
Phenol	NA	ND(0.38)	ND(0.42)	ND(0.83)	ND(0.40)	ND(0.37)	ND(0.37)
Pronamide	NA	ND(0.76)	ND(0.83)	ND(1.7)	ND(0.80)	ND(0.75)	ND(0.75)
Pyrene	NA	0.33 J	0.97	0.36 J	0.24 J	0.13 J	0.17 J
Pyridine	NA	ND(0.76)	ND(0.83)	ND(1.7)	ND(0.80)	ND(0.75)	ND(0.75)
Safrole	NA	ND(0.76)	ND(0.83)	ND(1.7)	ND(0.80)	ND(0.75)	ND(0.75)
Thionazin	NA	ND(1.9)	ND(2.0)	ND(4.0)	ND(1.9)	ND(1.8)	ND(1.8)
<b>Furans</b>							
2,3,7,8-TCDF	NA	0.000053 Y	0.000089 Y	0.000043 Y	0.000059 Y	ND(0.000015) X	ND(0.000018) X
TCDFs (total)	NA	0.000030	0.000056	0.000029	0.000045	ND(0.000068) X	ND(0.000047) X
1,2,3,7,8-PeCDF	NA	0.000033 J	ND(0.000028) X	ND(0.0000086)	ND(0.000022) X	ND(0.0000041) X	0.0000071 J
2,3,4,7,8-PeCDF	NA	0.000029 J	0.000040 J	ND(0.000018)	0.000033 J	ND(0.0000070) X	0.000011 J
PeCDFs (total)	NA	0.000014	0.000048	0.000064	0.000026	ND(0.00013) X	ND(0.000074) X
1,2,3,4,7,8-HxCDF	NA	0.000038 J	0.000036 J	ND(0.000020) X	0.000031 J	0.000016 J	0.000016 J
1,2,3,6,7,8-HxCDF	NA	0.000030 J	ND(0.000026) X	ND(0.0000066) X	ND(0.000018) X	ND(0.000012) X	ND(0.000067) X
1,2,3,7,8,9-HxCDF	NA	ND(0.0000065)	ND(0.000011)	ND(0.0000074)	ND(0.0000081)	ND(0.0000029)	ND(0.0000031)
2,3,4,6,7,8-HxCDF	NA	ND(0.000014) X	0.000032 J	ND(0.0000087) X	0.000033 J	ND(0.0000055) X	ND(0.0000070) X
HxCDFs (total)	NA	0.000015	0.000058	ND(0.000036)	0.000025	ND(0.00010) X	ND(0.000059) X
1,2,3,4,6,7,8-HpCDF	NA	0.000076	0.000080	ND(0.000028) X	0.000015	0.000024	0.000045
1,2,3,4,7,8,9-HpCDF	NA	ND(0.000017) X	ND(0.000021) X	ND(0.0000058) X	ND(0.000011)	ND(0.0000049)	ND(0.0000087) X
HpCDFs (total)	NA	0.000076	0.00014	ND(0.000028)	0.000022	0.000045	ND(0.000079) X
OCDF	NA	ND(0.000050)	0.000046	ND(0.000017)	0.000011 J	0.000020	0.000037

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-10-5		K10-10-6				K10-10-33	
	RAA15-J9 4-5 02/20/03	RAA15-L13 3-5 02/11/03	RAA15-L16 0-1 02/12/03	RAA15-M11 0-1 02/12/03	RAA15-P13 1-3 02/10/03	RAA15-E18 0-1 02/20/03	RAA15-E18 1-3 02/20/03	
<b>Dioxins</b>								
2,3,7,8-TCDD	NA	ND(0.00000045)	ND(0.00000053)	ND(0.00000053)	ND(0.00000042)	ND(0.00000063)	ND(0.00000063)	
TCDDs (total)	NA	ND(0.00000045)	0.0000014	ND(0.00000053)	ND(0.00000042)	ND(0.00000063)	ND(0.00000075) X	
1,2,3,7,8-PeCDD	NA	ND(0.00000061)	ND(0.00000084)	ND(0.00000079)	ND(0.00000067)	ND(0.00000043) X	ND(0.00000039)	
PeCDDs (total)	NA	ND(0.00000061)	ND(0.0000017)	ND(0.00000079)	ND(0.00000067)	ND(0.00000024) X	ND(0.0000015) X	
1,2,3,4,7,8-HxCDD	NA	ND(0.00000054)	ND(0.00000071)	ND(0.00000081)	ND(0.00000056)	ND(0.00000039)	ND(0.00000047)	
1,2,3,6,7,8-HxCDD	NA	ND(0.00000049)	ND(0.00000024) X	ND(0.00000072)	ND(0.00000053)	ND(0.00000090) X	ND(0.0000014) X	
1,2,3,7,8,9-HxCDD	NA	ND(0.00000046)	ND(0.0000012) X	ND(0.00000068)	ND(0.00000047)	ND(0.00000082) X	0.00000097 J	
HxCDDs (total)	NA	ND(0.0000010)	0.000016	ND(0.00000081)	ND(0.0000016)	ND(0.00000087) X	ND(0.000011) X	
1,2,3,4,6,7,8-HpCDD	NA	0.0000049 J	0.000021	ND(0.0000018)	0.000010	0.000020	0.000032	
HpCDDs (total)	NA	0.0000098	0.000038	ND(0.0000018)	0.000020	0.000036	0.000052	
OCDD	NA	0.000050	0.00011	0.00010 J	0.00014	0.00017	0.00026	
Total TEQs (WHO TEFs)	NA	0.0000037	0.0000058	0.0000019	0.0000040	0.0000022	0.0000027	
<b>Inorganics</b>								
Antimony	NA	ND(6.90) J	ND(7.60) J	ND(7.60) J	ND(7.30) J	ND(6.80)	0.440 B	
Arsenic	NA	3.90	6.30	4.80	6.80	2.20	2.60	
Barium	NA	47.5	59.0	57.0	61.3	25.4	24.3	
Beryllium	NA	0.490 B	0.600 B	0.780	0.650	0.190 B	0.0610 B	
Cadmium	NA	0.570 B	0.740	0.550 B	0.530 B	0.280 B	0.270 B	
Chromium	NA	11.6	11.8	12.9	13.2	9.60	9.40	
Cobalt	NA	8.30	9.50	8.80	8.50	5.50 B	5.70	
Copper	NA	21.4	23.5	32.3	17.2	12.2	11.1	
Cyanide	NA	0.230 B	0.300 B	0.250 B	0.260 B	0.360 B	0.210 B	
Lead	NA	262	45.3	45.1	43.9	12.2	12.9	
Mercury	NA	0.170	0.150	ND(0.0940)	ND(0.110)	0.0330 B	0.0480	
Nickel	NA	15.7	19.1	14.7	15.6	10.0	10.2	
Selenium	NA	ND(0.580)	ND(0.630)	0.490 B	0.480 B	ND(0.570)	ND(0.570)	
Silver	NA	ND(1.20)	ND(1.30)	ND(1.30)	ND(1.20)	ND(1.10)	ND(1.10)	
Sulfide	NA	ND(11.6)	ND(12.6)	ND(12.6)	ND(12.1)	ND(11.4)	ND(11.3)	
Thallium	NA	0.950 B	1.00 B	1.20 B	1.50	ND(1.10)	ND(1.10)	
Tin	NA	34.7	ND(6.70)	ND(6.40)	ND(6.90)	ND(5.40)	ND(4.80)	
Vanadium	NA	11.5	14.9	17.0	18.0	8.50	8.80	
Zinc	NA	88.6	95.4	79.9	81.1	47.0	50.3	



**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-10-33					
	RAA15-E18 3-6 02/20/03	RAA15-E18 4-6 02/20/03	RAA15-E20 3-6 02/19/03	RAA15-E20 4-6 02/19/03	RAA15-E21 0-1 02/19/03	RAA15-F19 0-1 02/18/03
<b>Volatile Organics</b>						
1,1,1,2-Tetrachloroethane	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
1,1,1-Trichloroethane	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
1,1,2,2-Tetrachloroethane	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
1,1,2-Trichloroethane	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
1,1-Dichloroethane	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
1,1-Dichloroethene	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
1,2,3-Trichloropropane	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
1,2-Dibromo-3-chloropropane	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
1,2-Dibromoethane	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
1,2-Dichloroethane	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
1,2-Dichloropropane	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
1,4-Dioxane	NA	ND(1.2) J	NA	ND(1.2) J	ND(1.2) J	ND(1.7) J [ND(1.9) J]
2-Butanone	NA	0.0038 J	NA	ND(0.0062) J	ND(0.0061) J	ND(0.0085) J [ND(0.0093) J]
2-Chloro-1,3-butadiene	NA	ND(0.0058)	NA	ND(0.0062) J	ND(0.0061) J	ND(0.0085) J [ND(0.0093) J]
2-Chloroethylvinylether	NA	ND(0.012) J	NA	ND(0.012) J	ND(0.012) J	ND(0.017) J [ND(0.019) J]
2-Hexanone	NA	ND(0.023)	NA	ND(0.025)	ND(0.024)	ND(0.034) J [ND(0.037) J]
3-Chloropropene	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
4-Methyl-2-pentanone	NA	ND(0.023)	NA	ND(0.025)	ND(0.024)	ND(0.034) J [ND(0.037) J]
Acetone	NA	0.0098 J	NA	ND(0.025) J	ND(0.024) J	ND(0.034) J [ND(0.037) J]
Acetonitrile	NA	ND(0.12) J	NA	ND(0.12)	ND(0.12)	ND(0.17) J [ND(0.19) J]
Acrolein	NA	ND(0.12) J	NA	ND(0.12) J	ND(0.12) J	ND(0.17) J [ND(0.19) J]
Acrylonitrile	NA	ND(0.12)	NA	ND(0.12) J	ND(0.12) J	ND(0.17) J [ND(0.19) J]
Benzene	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Bromodichloromethane	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Bromoform	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Bromomethane	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Carbon Disulfide	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Carbon Tetrachloride	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Chlorobenzene	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Chloroethane	NA	ND(0.012)	NA	ND(0.012)	ND(0.012)	ND(0.017) J [ND(0.019) J]
Chloroform	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Chloromethane	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
cis-1,3-Dichloropropene	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Dibromochloromethane	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Dibromomethane	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Dichlorodifluoromethane	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Ethyl Methacrylate	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Ethylbenzene	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Iodomethane	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Isobutanol	NA	ND(0.23)	NA	ND(0.25) J	ND(0.24) J	ND(0.34) J [ND(0.37) J]
Methacrylonitrile	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Methyl Methacrylate	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Methylene Chloride	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Propionitrile	NA	ND(0.012) J	NA	ND(0.012)	ND(0.012)	ND(0.017) J [ND(0.019) J]
Styrene	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Tetrachloroethene	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Toluene	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
trans-1,2-Dichloroethene	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
trans-1,3-Dichloropropene	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
trans-1,4-Dichloro-2-butene	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Trichloroethene	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Trichlorofluoromethane	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Vinyl Acetate	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
Vinyl Chloride	NA	ND(0.012)	NA	ND(0.012)	ND(0.012)	ND(0.017) J [ND(0.019) J]
Xylenes (total)	NA	ND(0.0058)	NA	ND(0.0062)	ND(0.0061)	ND(0.0085) [ND(0.0093)]
<b>Semivolatile Organics</b>						
1,2,4,5-Tetrachlorobenzene	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
1,2,4-Trichlorobenzene	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
1,2-Dichlorobenzene	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
1,2-Diphenylhydrazine	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
1,3,5-Trinitrobenzene	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
1,3-Dichlorobenzene	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-10-33					
	RAA15-E18 3-6 02/20/03	RAA15-E18 4-6 02/20/03	RAA15-E20 3-6 02/19/03	RAA15-E20 4-6 02/19/03	RAA15-E21 0-1 02/19/03	RAA15-F19 0-1 02/18/03
<b>Semivolatile Organics (continued)</b>						
1,3-Dinitrobenzene	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
1,4-Dichlorobenzene	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
1,4-Naphthoquinone	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
1-Naphthylamine	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
2,3,4,6-Tetrachlorophenol	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
2,4,5-Trichlorophenol	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
2,4,6-Trichlorophenol	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
2,4-Dichlorophenol	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
2,4-Dimethylphenol	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
2,4-Dinitrophenol	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
2,4-Dinitrotoluene	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
2,6-Dichlorophenol	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
2,6-Dinitrotoluene	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
2-Acetylaminofluorene	ND(0.81)	NA	ND(0.88)	NA	ND(0.83)	ND(1.1) [ND(2.2)]
2-Chloronaphthalene	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
2-Chlorophenol	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
2-Methylnaphthalene	0.034 J	NA	0.035 J	NA	ND(0.42)	ND(0.55) [ND(1.1)]
2-Methylphenol	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
2-Naphthylamine	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
2-Nitroaniline	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
2-Nitrophenol	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
2-Picoline	ND(0.81)	NA	ND(0.88)	NA	ND(0.83)	ND(1.1) [ND(2.2)]
3&4-Methylphenol	ND(0.81)	NA	ND(0.88)	NA	ND(0.83)	ND(1.1) [ND(2.2)]
3,3'-Dichlorobenzidine	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
3,3'-Dimethylbenzidine	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
3-Methylcholanthrene	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
3-Nitroaniline	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
4,6-Dinitro-2-methylphenol	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
4-Aminobiphenyl	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
4-Bromophenyl-phenylether	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
4-Chloro-3-Methylphenol	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
4-Chloroaniline	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
4-Chlorobenzilate	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
4-Chlorophenyl-phenylether	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
4-Nitroaniline	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
4-Nitrophenol	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
4-Nitroquinoline-1-oxide	ND(4.0)	NA	ND(4.4)	NA	ND(4.2)	ND(5.5) [ND(11)]
4-Phenylenediamine	ND(8.1)	NA	ND(8.8)	NA	ND(8.3)	ND(11) [ND(22)]
5-Nitro-o-toluidine	ND(0.81)	NA	ND(0.88)	NA	ND(0.83)	ND(1.1) [ND(2.2)]
7,12-Dimethylbenz(a)anthracene	ND(0.81)	NA	ND(0.88)	NA	ND(0.83)	ND(1.1) [ND(2.2)]
a,a'-Dimethylphenethylamine	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
Acenaphthene	0.069 J	NA	0.059 J	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Acenaphthylene	ND(0.40)	NA	0.043 J	NA	0.085 J	0.22 J [0.12 J]
Acetophenone	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Aniline	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Anthracene	0.16 J	NA	0.13 J	NA	0.086 J	0.15 J [ND(1.1)]
Aramite	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
Benzidine	ND(4.0)	NA	ND(4.4)	NA	ND(4.2)	ND(5.5) [ND(11)]
Benzo(a)anthracene	0.31 J	NA	0.30 J	NA	0.29 J	0.49 J [0.33 J]
Benzo(a)pyrene	0.27 J	NA	0.30 J	NA	0.32 J	0.63 [0.39 J]
Benzo(b)fluoranthene	0.22 J	NA	0.22 J	NA	0.26 J	0.64 [0.35 J]
Benzo(g,h,i)perylene	0.098 J	NA	0.13 J	NA	0.15 J	0.19 J [0.31 J]
Benzo(k)fluoranthene	0.28 J	NA	0.28 J	NA	0.32 J	0.69 [0.38 J]
Benzyl Alcohol	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
bis(2-Chloroethoxy)methane	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
bis(2-Chloroethyl)ether	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
bis(2-Chloroisopropyl)ether	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
bis(2-Ethylhexyl)phthalate	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Butylbenzylphthalate	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Chrysene	0.32 J	NA	0.35 J	NA	0.40 J	0.77 [0.51 J]
Diallate	ND(0.81)	NA	ND(0.88)	NA	ND(0.83)	ND(1.1) [ND(2.2)]
Dibenzo(a,h)anthracene	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-10-33					
	RAA15-E18 3-6 02/20/03	RAA15-E18 4-6 02/20/03	RAA15-E20 3-6 02/19/03	RAA15-E20 4-6 02/19/03	RAA15-E21 0-1 02/19/03	RAA15-F19 0-1 02/18/03
<b>Semivolatile Organics (continued)</b>						
Dibenzofuran	0.056 J	NA	0.043 J	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Diethylphthalate	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Dimethylphthalate	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Di-n-Butylphthalate	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Di-n-Octylphthalate	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Diphenylamine	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Ethyl Methanesulfonate	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Fluoranthene	0.65	NA	0.60	NA	0.64	1.5 [0.89 J]
Fluorene	0.080 J	NA	0.068 J	NA	0.040 J	0.058 J [ND(1.1)]
Hexachlorobenzene	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Hexachlorobutadiene	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Hexachlorocyclopentadiene	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
Hexachloroethane	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Hexachlorophene	ND(8.2) J	NA	ND(9.0) J	NA	ND(8.5) J	ND(11) J [ND(23) J]
Hexachloropropene	ND(4.0)	NA	ND(4.4)	NA	ND(4.2)	ND(5.5) [ND(11)]
Indeno(1,2,3-cd)pyrene	0.12 J	NA	0.14 J	NA	0.17 J	0.23 J [0.30 J]
Isodrin	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Isophorone	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Isosafrole	ND(0.81)	NA	ND(0.88)	NA	ND(0.83)	ND(1.1) [ND(2.2)]
Methapyrilene	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
Methyl Methanesulfonate	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Naphthalene	0.081 J	NA	0.052 J	NA	0.031 J	0.038 J [ND(1.1)]
Nitrobenzene	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
N-Nitrosodiethylamine	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
N-Nitrosodimethylamine	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
N-Nitroso-di-n-butylamine	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
N-Nitroso-di-n-propylamine	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
N-Nitrosodiphenylamine	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
N-Nitrosomethylethylamine	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
N-Nitrosomorpholine	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
N-Nitrosopiperidine	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
N-Nitrosopyrrolidine	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
o,o,o-Triethylphosphorothioate	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
o-Toluidine	ND(0.81)	NA	ND(0.88)	NA	ND(0.83)	ND(1.1) [ND(2.2)]
p-Dimethylaminoazobenzene	ND(0.81)	NA	ND(0.88)	NA	ND(0.83)	ND(1.1) [ND(2.2)]
Pentachlorobenzene	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Pentachloroethane	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
Pentachloronitrobenzene	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
Pentachlorophenol	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
Phenacetin	ND(0.81)	NA	ND(0.88)	NA	ND(0.83)	ND(1.1) [ND(2.2)]
Phenanthrene	0.57	NA	0.58	NA	0.42	0.78 [0.57 J]
Phenol	ND(0.40)	NA	ND(0.44)	NA	ND(0.42)	ND(0.55) [ND(1.1)]
Pronamide	ND(0.81)	NA	ND(0.88)	NA	ND(0.83)	ND(1.1) [ND(2.2)]
Pyrene	0.48	NA	0.49	NA	0.56	0.98 [0.87 J]
Pyridine	ND(0.81)	NA	ND(0.88)	NA	ND(0.83)	ND(1.1) [ND(2.2)]
Safrole	ND(0.81)	NA	ND(0.88)	NA	ND(0.83)	ND(1.1) [ND(2.2)]
Thionazin	ND(2.0)	NA	ND(2.1)	NA	ND(2.0)	ND(2.7) [ND(5.4)]
<b>Furans</b>						
2,3,7,8-TCDF	ND(0.000019) X	NA	ND(0.000020) X	NA	ND(0.000015) X	0.00011 J [0.000038 J]
TCDFs (total)	ND(0.000026) X	NA	ND(0.000020) X	NA	ND(0.000011) X	ND(0.0014) X [ND(0.000094) X]
1,2,3,7,8-PeCDF	ND(0.0000052) X	NA	0.000012 J	NA	ND(0.0000038) X	0.0000033 J [ND(0.000010) X]
2,3,4,7,8-PeCDF	ND(0.0000083) X	NA	0.000018 J	NA	0.0000056 J	0.0000086 [0.000014 J]
PeCDFs (total)	ND(0.000045) X	NA	ND(0.000031) X	NA	ND(0.000019) X	ND(0.0043) X [ND(0.00027) X]
1,2,3,4,7,8-HxCDF	0.0000014 J	NA	0.000044 J	NA	0.0000093 J	0.000018 [0.000026 J]
1,2,3,6,7,8-HxCDF	ND(0.000056) X	NA	ND(0.000042) X	NA	ND(0.000024) X	ND(0.00065) X [ND(0.000050) X]
1,2,3,7,8,9-HxCDF	ND(0.0000017)	NA	ND(0.0000029)	NA	ND(0.0000012)	0.0000069 J [ND(0.0000023)]
2,3,4,6,7,8-HxCDF	0.0000074 J	NA	ND(0.0000085) X	NA	0.0000047 J	0.000011 [0.000016 J]
HxCDFs (total)	ND(0.000050) X	NA	ND(0.00019) X	NA	ND(0.000024) X	ND(0.0031) X [ND(0.00023) X]
1,2,3,4,6,7,8-HpCDF	0.000045	NA	0.0043	NA	0.000026	0.0011 J [0.00035 J]
1,2,3,4,7,8,9-HpCDF	0.0000011 J	NA	0.000052 J	NA	0.0000063 J	0.00001 J [0.000014 J]
HpCDFs (total)	0.000083	NA	0.00094	NA	0.000051	0.00025 J [0.00007 J]
OCDF	0.000037	NA	0.00050	NA	0.000023	0.000085 J [0.000023 J]

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parameter	K10-10-33					
	RAA15-E18	RAA15-E18	RAA15-E20	RAA15-E20	RAA15-E21	RAA15-F19
	3-6 02/20/03	4-6 02/20/03	3-6 02/19/03	4-6 02/19/03	0-1 02/19/03	0-1 02/18/03
<b>Dioxins</b>						
2,3,7,8-TCDD	ND(0.00000045)	NA	ND(0.00000043)	NA	ND(0.00000033)	ND(0.00000061) [ND(0.00000057)]
TCDDs (total)	0.00000051 J	NA	ND(0.00000043)	NA	ND(0.00000033)	ND(0.00000033) X [ND(0.00000057)]
1,2,3,7,8-PeCDD	ND(0.00000030)	NA	ND(0.00000029)	NA	ND(0.00000027) X	ND(0.00000047) X [0.00000076 J]
PeCDDs (total)	ND(0.00000079) X	NA	ND(0.00000071) X	NA	ND(0.00000011) X	ND(0.00000034) X [ND(0.00000098) X]
1,2,3,4,7,8-HxCDD	ND(0.00000028)	NA	ND(0.00000052) X	NA	ND(0.00000023) X	ND(0.00000041) X [0.00000054 J]
1,2,3,6,7,8-HxCDD	0.00000041 J	NA	0.00000046 J	NA	ND(0.00000091) X	0.000011 [ND(0.00000014) X]
1,2,3,7,8,9-HxCDD	0.00000084 J	NA	0.00000016 J	NA	0.0000012 J	0.0000081 J [0.00000013 J]
HxCDDs (total)	ND(0.000011) X	NA	ND(0.000028) X	NA	ND(0.0000080) X	ND(0.00011) X [ND(0.000014) X]
1,2,3,4,6,7,8-HpCDD	0.000031	NA	0.00024	NA	0.000028	0.000097 J [0.000023 J]
HpCDDs (total)	0.000051	NA	0.00055	NA	0.000053	0.00018 J [0.000041 J]
OCDD	0.00032	NA	0.0034	NA	0.00028	0.00064 J [0.00017 J]
Total TEQs (WHO TEFs)	0.000025	NA	0.000099	NA	0.000017	0.000048 [0.000013]
<b>Inorganics</b>						
Antimony	ND(7.30)	NA	ND(8.00)	NA	ND(7.60)	ND(10.1) J [ND(10.2)]
Arsenic	2.00	NA	2.10	NA	2.20	5.70 [5.90]
Barium	30.7	NA	28.8	NA	29.4	80.1 [75.9]
Beryllium	ND(0.610)	NA	0.220 B	NA	0.260 B	1.00 [ND(1.00)]
Cadmium	0.300 B	NA	0.250 B	NA	0.260 B	1.00 [1.10]
Chromium	11.0	NA	14.2	NA	12.5	37.0 [32.3]
Cobalt	6.50	NA	5.40 B	NA	5.90 B	10.9 [10.5]
Copper	13.1	NA	14.6	NA	14.9	41.3 [38.8]
Cyanide	ND(0.610)	NA	ND(0.670)	NA	ND(0.630)	ND(0.750) [ND(0.850)]
Lead	16.0	NA	24.9	NA	18.6	86.9 [78.9]
Mercury	0.0590	NA	0.140	NA	0.110	0.440 [0.470]
Nickel	11.0	NA	10.5	NA	10.6	22.5 [20.8]
Selenium	ND(0.610)	NA	ND(0.670)	NA	ND(0.630)	1.10 [0.950]
Silver	ND(1.20)	NA	ND(1.30)	NA	ND(1.30)	ND(1.70) [0.160 B]
Sulfide	ND(12.2)	NA	ND(13.4)	NA	ND(12.6)	ND(16.7) [ND(17.0)]
Thallium	ND(1.20)	NA	ND(1.30) J	NA	ND(1.30) J	2.30 [1.10 B]
Tin	ND(5.70)	NA	ND(7.80)	NA	ND(6.20)	11.5 B [11.1 B]
Vanadium	8.90	NA	9.10	NA	10.1	25.2 [25.5]
Zinc	55.4	NA	56.0	NA	57.3	141 [130]

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-10-33						
	RAA15-F22 0-1 02/18/03	RAA15-F24 0-1 02/18/03	RAA15-F24 1-3 02/18/03	RAA15-G15 6-10 02/13/03	RAA15-G15 8-10 02/13/03	RAA15-G17 0-1 02/17/03	RAA15-G20 0-1 02/14/03
<b>Volatile Organics</b>							
1,1,1,2-Tetrachloroethane	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
1,1,1-Trichloroethane	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
1,1,2,2-Tetrachloroethane	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
1,1,2-Trichloroethane	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
1,1-Dichloroethane	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
1,1-Dichloroethene	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
1,2,3-Trichloropropane	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
1,2-Dibromo-3-chloropropane	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
1,2-Dibromoethane	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
1,2-Dichloroethane	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
1,2-Dichloropropane	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
1,4-Dioxane	ND(1.4) J	ND(1.3) J	ND(0.98) J	NA	ND(1.2) J	ND(1.3) J	ND(1.5) J
2-Butanone	ND(0.0070) J	ND(0.0064) J	ND(0.0049) J	NA	ND(0.0058) J	ND(0.0066) J	ND(0.0075) J
2-Chloro-1,3-butadiene	ND(0.0070) J	ND(0.0064) J	ND(0.0049) J	NA	ND(0.0058) J	ND(0.0066) J	ND(0.0075) J
2-Chloroethylvinylether	ND(0.014) J	ND(0.013) J	ND(0.0098) J	NA	ND(0.012) J	ND(0.013) J	ND(0.015) J
2-Hexanone	ND(0.028) J	ND(0.026) J	ND(0.020) J	NA	ND(0.023) J	ND(0.026) J	ND(0.030) J
3-Chloropropene	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
4-Methyl-2-pentanone	ND(0.028)	ND(0.026)	ND(0.020)	NA	ND(0.023)	ND(0.026)	ND(0.030)
Acetone	ND(0.028) J	ND(0.026) J	ND(0.020) J	NA	ND(0.023) J	ND(0.026) J	ND(0.030) J
Acetonitrile	ND(0.14) J	ND(0.13) J	ND(0.098) J	NA	ND(0.12) J	ND(0.13) J	ND(0.15) J
Acrolein	ND(0.14) J	ND(0.13) J	ND(0.098) J	NA	ND(0.12) J	ND(0.13) J	ND(0.15) J
Acrylonitrile	ND(0.14) J	ND(0.13) J	ND(0.098) J	NA	ND(0.12) J	ND(0.13) J	ND(0.15) J
Benzene	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Bromodichloromethane	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Bromoform	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Bromomethane	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Carbon Disulfide	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Carbon Tetrachloride	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Chlorobenzene	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Chloroethane	ND(0.014)	ND(0.013)	ND(0.0098)	NA	ND(0.012)	ND(0.013)	ND(0.015)
Chloroform	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Chloromethane	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
cis-1,3-Dichloropropene	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Dibromochloromethane	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Dibromomethane	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Dichlorodifluoromethane	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075) J
Ethyl Methacrylate	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Ethylbenzene	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Iodomethane	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Isobutanol	ND(0.28) J	ND(0.26) J	ND(0.20) J	NA	ND(0.23) J	ND(0.26) J	ND(0.30) J
Methacrylonitrile	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Methyl Methacrylate	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Methylene Chloride	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Propionitrile	ND(0.014)	ND(0.013)	ND(0.0098)	NA	ND(0.012)	ND(0.013)	ND(0.015)
Styrene	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Tetrachloroethene	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Toluene	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
trans-1,2-Dichloroethene	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
trans-1,3-Dichloropropene	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
trans-1,4-Dichloro-2-butene	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Trichloroethene	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Trichlorofluoromethane	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058) J	ND(0.0066)	ND(0.0075)
Vinyl Acetate	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
Vinyl Chloride	ND(0.014)	ND(0.013)	ND(0.0098)	NA	ND(0.012)	ND(0.013)	ND(0.015)
Xylenes (total)	ND(0.0070)	ND(0.0064)	ND(0.0049)	NA	ND(0.0058)	ND(0.0066)	ND(0.0075)
<b>Semivolatile Organics</b>							
1,2,4,5-Tetrachlorobenzene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
1,2,4-Trichlorobenzene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
1,2-Dichlorobenzene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
1,2-Diphenylhydrazine	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
1,3,5-Trinitrobenzene	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
1,3-Dichlorobenzene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-10-33						
	RAA15-F22 0-1 02/18/03	RAA15-F24 0-1 02/18/03	RAA15-F24 1-3 02/18/03	RAA15-G15 6-10 02/13/03	RAA15-G15 8-10 02/13/03	RAA15-G17 0-1 02/17/03	RAA15-G20 0-1 02/14/03
<b>Semivolatile Organics (continued)</b>							
1,3-Dinitrobenzene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
1,4-Dichlorobenzene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
1,4-Naphthoquinone	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
1-Naphthylamine	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
2,3,4,6-Tetrachlorophenol	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
2,4,5-Trichlorophenol	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
2,4,6-Trichlorophenol	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
2,4-Dichlorophenol	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
2,4-Dimethylphenol	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
2,4-Dinitrophenol	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
2,4-Dinitrotoluene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
2,6-Dichlorophenol	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
2,6-Dinitrotoluene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
2-Acetylaminofluorene	ND(0.96)	ND(0.90)	ND(0.82)	ND(0.86)	NA	ND(0.93)	ND(0.94)
2-Chloronaphthalene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
2-Chlorophenol	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
2-Methylnaphthalene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
2-Methylphenol	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
2-Naphthylamine	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
2-Nitroaniline	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
2-Nitrophenol	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
2-Picoline	ND(0.96)	ND(0.90)	ND(0.82)	ND(0.86)	NA	ND(0.93)	ND(0.94)
3&4-Methylphenol	ND(0.96)	ND(0.90)	ND(0.82)	ND(0.86)	NA	ND(0.93)	ND(0.94)
3,3'-Dichlorobenzidine	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
3,3'-Dimethylbenzidine	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
3-Methylcholanthrene	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
3-Nitroaniline	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
4,6-Dinitro-2-methylphenol	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
4-Aminobiphenyl	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
4-Bromophenyl-phenylether	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
4-Chloro-3-Methylphenol	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
4-Chloroaniline	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
4-Chlorobenzilate	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
4-Chlorophenyl-phenylether	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
4-Nitroaniline	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
4-Nitrophenol	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
4-Nitroquinoline-1-oxide	ND(4.8)	ND(4.5)	ND(4.1)	ND(4.3)	NA	ND(4.6)	ND(4.7)
4-Phenylenediamine	ND(9.6)	ND(9.0)	ND(8.2)	ND(8.6)	NA	ND(9.3)	ND(9.4)
5-Nitro-o-toluidine	ND(0.96)	ND(0.90)	ND(0.82)	ND(0.86)	NA	ND(0.93)	ND(0.94)
7,12-Dimethylbenz(a)anthracene	ND(0.96)	ND(0.90)	ND(0.82)	ND(0.86)	NA	ND(0.93)	ND(0.94)
a,a'-Dimethylphenethylamine	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
Acenaphthene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Acenaphthylene	0.052 J	0.046 J	ND(0.41)	ND(0.43)	NA	0.065 J	0.089 J
Acetophenone	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Aniline	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Anthracene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	0.062 J
Aramite	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
Benzidine	ND(4.8)	ND(4.5)	ND(4.1)	ND(4.3)	NA	ND(4.6)	ND(4.7)
Benzo(a)anthracene	0.20 J	0.20 J	0.090 J	ND(0.43)	NA	0.21 J	0.27 J
Benzo(a)pyrene	0.23 J	0.22 J	0.098 J	ND(0.43)	NA	0.24 J	0.33 J
Benzo(b)fluoranthene	0.21 J	0.18 J	0.081 J	ND(0.43)	NA	0.25 J	0.32 J
Benzo(g,h,i)perylene	0.13 J	0.15 J	0.070 J	ND(0.43)	NA	0.086 J	0.12 J
Benzo(k)fluoranthene	0.22 J	0.21 J	0.096 J	ND(0.43)	NA	0.25 J	0.38 J
Benzyl Alcohol	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
bis(2-Chloroethoxy)methane	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
bis(2-Chloroethyl)ether	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
bis(2-Chloroisopropyl)ether	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
bis(2-Ethylhexyl)phthalate	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Butylbenzylphthalate	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Chrysene	0.27 J	0.25 J	0.11 J	ND(0.43)	NA	0.28 J	0.39 J
Diallate	ND(0.96)	ND(0.90)	ND(0.82)	ND(0.86)	NA	ND(0.93)	ND(0.94)
Dibenzo(a,h)anthracene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-10-33						
	RAA15-F22 0-1 02/18/03	RAA15-F24 0-1 02/18/03	RAA15-F24 1-3 02/18/03	RAA15-G15 6-10 02/13/03	RAA15-G15 8-10 02/13/03	RAA15-G17 0-1 02/17/03	RAA15-G20 0-1 02/14/03
<b>Semivolatile Organics (continued)</b>							
Dibenzofuran	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Diethylphthalate	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Dimethylphthalate	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Di-n-Butylphthalate	ND(0.48)	ND(0.45)	ND(0.41)	0.062 J	NA	ND(0.46)	ND(0.47)
Di-n-Octylphthalate	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Diphenylamine	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Ethyl Methanesulfonate	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Fluoranthene	0.40 J	0.37 J	0.17 J	ND(0.43)	NA	0.49	0.65
Fluorene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Hexachlorobenzene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Hexachlorobutadiene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Hexachlorocyclopentadiene	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
Hexachloroethane	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Hexachlorophene	ND(9.7) J	ND(9.1) J	ND(8.3) J	ND(8.7) J	NA	ND(9.4) J	ND(9.5) J
Hexachloropropene	ND(4.8)	ND(4.5)	ND(4.1)	ND(4.3)	NA	ND(4.6)	ND(4.7)
Indeno(1,2,3-cd)pyrene	0.15 J	0.18 J	0.078 J	ND(0.43)	NA	0.11 J	0.15 J
Isodrin	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Isophorone	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Isosafrole	ND(0.96)	ND(0.90)	ND(0.82)	ND(0.86)	NA	ND(0.93)	ND(0.94)
Methapyrilene	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
Methyl Methanesulfonate	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Naphthalene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Nitrobenzene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
N-Nitrosodiethylamine	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
N-Nitrosodimethylamine	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
N-Nitroso-di-n-butylamine	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
N-Nitroso-di-n-propylamine	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
N-Nitrosodiphenylamine	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
N-Nitrosomethylethylamine	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
N-Nitrosomorpholine	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
N-Nitrosopiperidine	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
N-Nitrosopyrrolidine	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
o,o,o-Triethylphosphorothioate	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
o-Toluidine	ND(0.96)	ND(0.90)	ND(0.82)	ND(0.86)	NA	ND(0.93)	ND(0.94)
p-Dimethylaminoazobenzene	ND(0.96)	ND(0.90)	ND(0.82)	ND(0.86)	NA	ND(0.93)	ND(0.94)
Pentachlorobenzene	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Pentachloroethane	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
Pentachloronitrobenzene	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
Pentachlorophenol	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
Phenacetin	ND(0.96)	ND(0.90)	ND(0.82)	ND(0.86)	NA	ND(0.93)	ND(0.94)
Phenanthrene	0.21 J	0.19 J	0.093 J	ND(0.43)	NA	0.22 J	0.29 J
Phenol	ND(0.48)	ND(0.45)	ND(0.41)	ND(0.43)	NA	ND(0.46)	ND(0.47)
Pronamide	ND(0.96)	ND(0.90)	ND(0.82)	ND(0.86)	NA	ND(0.93)	ND(0.94)
Pyrene	0.36 J	0.35 J	0.16 J	ND(0.43)	NA	0.34 J	0.45 J
Pyridine	ND(0.96)	ND(0.90)	ND(0.82)	ND(0.86)	NA	ND(0.93)	ND(0.94)
Safrole	ND(0.96)	ND(0.90)	ND(0.82)	ND(0.86)	NA	ND(0.93)	ND(0.94)
Thionazin	ND(2.3)	ND(2.2)	ND(2.0)	ND(2.1)	NA	ND(2.3)	ND(2.3)
<b>Furans</b>							
2,3,7,8-TCDF	0.000021	ND(0.000016) X	0.0000036	0.0000018 Y	NA	0.0000036	0.000034 Y
TCDFs (total)	ND(0.00012) X	ND(0.000062) X	ND(0.000010) X	0.0000040	NA	ND(0.000016) X	0.00015
1,2,3,7,8-PeCDF	0.0000050 J	0.0000044 J	ND(0.0000090) X	ND(0.0000041)	NA	ND(0.0000066) X	0.000012
2,3,4,7,8-PeCDF	0.0000047 J	0.0000038 J	ND(0.0000027)	ND(0.0000016)	NA	ND(0.0000045) X	0.000012
PeCDFs (total)	ND(0.000070) X	ND(0.000048) X	ND(0.0000069) X	ND(0.0000041)	NA	ND(0.000011) X	0.000094
1,2,3,4,7,8-HxCDF	0.0000049 J	0.0000046 J	ND(0.0000072) X	ND(0.0000026) X	NA	0.0000067 J	0.000099
1,2,3,6,7,8-HxCDF	ND(0.000059) X	ND(0.000043) X	ND(0.0000079) X	ND(0.0000071)	NA	ND(0.000014) X	0.000064 J
1,2,3,7,8,9-HxCDF	ND(0.0000014)	ND(0.0000026)	ND(0.0000021)	ND(0.0000097)	NA	ND(0.0000015)	ND(0.0000043)
2,3,4,6,7,8-HxCDF	0.0000012 J	0.00000099 J	0.0000024 J	ND(0.00000084)	NA	ND(0.0000023) X	0.000053 J
HxCDFs (total)	ND(0.000053) X	ND(0.000046) X	ND(0.0000078) X	ND(0.0000026) X	NA	ND(0.000092) X	0.00014
1,2,3,4,6,7,8-HpCDF	0.000033	0.000045	0.000084	ND(0.0000035) X	NA	0.0000030 J	0.00016
1,2,3,4,7,8,9-HpCDF	0.0000012 J	ND(0.000014) X	ND(0.0000037)	ND(0.0000014)	NA	ND(0.0000022)	0.000038 J
HpCDFs (total)	0.000063	ND(0.000096) X	0.000015	ND(0.0000035) X	NA	0.0000058 J	0.00030
OCDF	0.000025	0.000073	ND(0.0000061) X	ND(0.0000026)	NA	0.0000036 J	0.00013

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-10-33						
	RAA15-F22 0-1 02/18/03	RAA15-F24 0-1 02/18/03	RAA15-F24 1-3 02/18/03	RAA15-G15 6-10 02/13/03	RAA15-G15 8-10 02/13/03	RAA15-G17 0-1 02/17/03	RAA15-G20 0-1 02/14/03
<b>Dioxins</b>							
2,3,7,8-TCDD	ND(0.00000035)	ND(0.00000047)	ND(0.00000047)	ND(0.00000011) X	NA	ND(0.00000045)	ND(0.00000045)
TCDDs (total)	ND(0.0000023) X	0.00000042 J	ND(0.00000047)	ND(0.00000011) X	NA	ND(0.00000045)	0.00000033
1,2,3,7,8-PeCDD	ND(0.00000026)	ND(0.00000048) X	ND(0.00000026)	ND(0.00000026)	NA	ND(0.00000022)	ND(0.00000095) X
PeCDDs (total)	ND(0.0000022) X	ND(0.0000014) X	ND(0.00000026)	ND(0.00000047) X	NA	ND(0.00000022)	ND(0.00000028)
1,2,3,4,7,8-HxCDD	ND(0.00000031) X	ND(0.00000033)	ND(0.00000028)	ND(0.00000019)	NA	ND(0.00000022)	ND(0.00000012) X
1,2,3,6,7,8-HxCDD	ND(0.0000011) X	0.0000016 J	ND(0.00000026)	ND(0.00000017)	NA	ND(0.00000021)	0.0000056 J
1,2,3,7,8,9-HxCDD	0.00000085 J	0.00000092 J	ND(0.00000027)	ND(0.00000017)	NA	ND(0.00000022)	ND(0.0000018) X
HxCDDs (total)	ND(0.0000085) X	0.0000096 J	ND(0.0000010) X	ND(0.00000019) X	NA	0.00000041 J	0.0000036
1,2,3,4,6,7,8-HpCDD	0.000022	0.000055	0.0000054 J	ND(0.00000043)	NA	0.0000033 J	0.00011
HpCDDs (total)	0.000038	0.000089	0.0000090 J	ND(0.00000043) X	NA	0.0000057 J	0.00019
OCDD	0.00019	0.00065	0.000059	ND(0.0000028) X	NA	0.000028	0.0011
Total TEQs (WHO TEFs)	0.0000067	0.0000055	0.0000011	0.00000047	NA	0.0000011	0.000016
<b>Inorganics</b>							
Antimony	ND(8.70) J	ND(8.20) J	ND(7.40) J	ND(7.80)	NA	ND(8.50) J	ND(7.10) J
Arsenic	7.20	6.30	4.20	1.80	NA	5.90	6.90
Barium	80.0	69.7	56.0	23.2 B	NA	70.5	89.9
Beryllium	0.880	0.790	0.660	0.670	NA	ND(0.690)	ND(0.880)
Cadmium	1.00	0.790	0.630	0.350 B	NA	0.800	0.900
Chromium	52.0	48.6	26.8	24.8	NA	45.2	65.9
Cobalt	10.9	9.8	8.8	6.50	NA	9.7	12.1
Copper	48.6	43.5	29.2	14.7	NA	40.3	55.2
Cyanide	ND(0.720)	ND(0.680)	ND(0.620)	0.240 B	NA	ND(0.310)	0.270 B
Lead	87.9	84.5	38.1	14.1	NA	66.7	83.1
Mercury	0.800	0.510	0.380	0.150	NA	0.490	0.830
Nickel	20.2	18.1	15.7	11.9	NA	18.0	20.9
Selenium	1.10	0.390 B	ND(0.620)	0.440 B	NA	0.950	0.720
Silver	ND(1.50)	0.110 B	ND(1.20)	ND(1.30)	NA	ND(1.40)	0.180 B
Sulfide	ND(14.5)	ND(13.6)	ND(12.4)	ND(13.0)	NA	ND(14.1)	ND(14.2)
Thallium	2.20	1.90	1.70	0.790 B	NA	1.90	2.30
Tin	12.2 B	11.9 B	8.90 B	ND(6.50)	NA	10.3 B	ND(11.3)
Vanadium	20.3	17.8	14.3	8.80	NA	18.8	20.0
Zinc	132	118	76.2	49.8	NA	109	122



**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-10-33					
	RAA15-G20 1-3 02/14/03	RAA15-G20 10-15 02/14/03	RAA15-G20 12-15 02/14/03	RAA15-G22 6-8 02/19/03	RAA15-G22 6-10 02/19/03	RAA15-H15 0-1 02/17/03
<b>Volatile Organics</b>						
1,1,1,2-Tetrachloroethane	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
1,1,1-Trichloroethane	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
1,1,2,2-Tetrachloroethane	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
1,1,2-Trichloroethane	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
1,1-Dichloroethane	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
1,1-Dichloroethene	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
1,2,3-Trichloropropane	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
1,2-Dibromo-3-chloropropane	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
1,2-Dibromoethane	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
1,2-Dichloroethane	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
1,2-Dichloropropane	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
1,4-Dioxane	ND(1.2) J	NA	ND(1.2) J [ND(3.6) J]	ND(1.2) J	NA	ND(1.0) J
2-Butanone	ND(0.0061) J	NA	0.0094 J [0.010 J]	ND(0.0059) J	NA	ND(0.0052) J
2-Chloro-1,3-butadiene	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059) J	NA	ND(0.0052) J
2-Chloroethylvinylether	ND(0.012) J	NA	ND(0.012) J [ND(0.036) J]	ND(0.012) J	NA	ND(0.010) J
2-Hexanone	ND(0.025) J	NA	ND(0.023) J [ND(0.071) J]	ND(0.024)	NA	ND(0.021) J
3-Chloropropene	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
4-Methyl-2-pentanone	ND(0.025)	NA	ND(0.023) [ND(0.071)]	ND(0.024)	NA	ND(0.021)
Acetone	ND(0.025) J	NA	0.033 J [0.037 J]	ND(0.024) J	NA	ND(0.021) J
Acetonitrile	ND(0.12) J	NA	ND(0.12) J [ND(0.36) J]	ND(0.12)	NA	ND(0.10) J
Acrolein	ND(0.12)	NA	ND(0.12) [ND(0.36)]	ND(0.12) J	NA	ND(0.10) J
Acrylonitrile	ND(0.12)	NA	ND(0.12) [ND(0.36)]	ND(0.12) J	NA	ND(0.10) J
Benzene	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Bromodichloromethane	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Bromoform	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Bromomethane	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Carbon Disulfide	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Carbon Tetrachloride	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Chlorobenzene	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Chloroethane	ND(0.012)	NA	ND(0.012) [ND(0.036)]	ND(0.012)	NA	ND(0.010)
Chloroform	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Chloromethane	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
cis-1,3-Dichloropropene	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Dibromochloromethane	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Dibromomethane	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Dichlorodifluoromethane	ND(0.0061) J	NA	ND(0.0058) J [ND(0.018) J]	ND(0.0059)	NA	ND(0.0052)
Ethyl Methacrylate	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Ethylbenzene	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Iodomethane	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Isobutanol	ND(0.25) J	NA	ND(0.23) J [ND(0.71) J]	ND(0.24) J	NA	ND(0.21) J
Methacrylonitrile	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Methyl Methacrylate	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Methylene Chloride	ND(0.0061)	NA	0.0015 J [0.0038 J]	ND(0.0059)	NA	ND(0.0052)
Propionitrile	ND(0.012)	NA	ND(0.012) [ND(0.036)]	ND(0.012)	NA	ND(0.010)
Styrene	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Tetrachloroethene	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Toluene	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
trans-1,2-Dichloroethene	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
trans-1,3-Dichloropropene	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
trans-1,4-Dichloro-2-butene	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Trichloroethene	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Trichlorofluoromethane	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Vinyl Acetate	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
Vinyl Chloride	ND(0.012)	NA	ND(0.012) [ND(0.036)]	ND(0.012)	NA	ND(0.010)
Xylenes (total)	ND(0.0061)	NA	ND(0.0058) [ND(0.018)]	ND(0.0059)	NA	ND(0.0052)
<b>Semivolatile Organics</b>						
1,2,4,5-Tetrachlorobenzene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
1,2,4-Trichlorobenzene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
1,2-Dichlorobenzene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
1,2-Diphenylhydrazine	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
1,3,5-Trinitrobenzene	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
1,3-Dichlorobenzene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)

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<b>Semivolatile Organics (continued)</b>						
1,3-Dinitrobenzene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
1,4-Dichlorobenzene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
1,4-Naphthoquinone	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
1-Naphthylamine	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
2,3,4,6-Tetrachlorophenol	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
2,4,5-Trichlorophenol	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
2,4,6-Trichlorophenol	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
2,4-Dichlorophenol	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
2,4-Dimethylphenol	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
2,4-Dinitrophenol	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
2,4-Dinitrotoluene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
2,6-Dichlorophenol	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
2,6-Dinitrotoluene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
2-Acetylaminofluorene	ND(0.78)	ND(8.1) [ND(8.6) J]	NA	NA	ND(0.77)	ND(0.90)
2-Chloronaphthalene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
2-Chlorophenol	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
2-Methylnaphthalene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
2-Methylphenol	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
2-Naphthylamine	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
2-Nitroaniline	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
2-Nitrophenol	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
2-Picoline	ND(0.78)	ND(8.1) [ND(8.6) J]	NA	NA	ND(0.77)	ND(0.90)
3&4-Methylphenol	ND(0.78)	ND(8.1) [ND(8.6) J]	NA	NA	ND(0.77)	ND(0.90)
3,3'-Dichlorobenzidine	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
3,3'-Dimethylbenzidine	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
3-Methylcholanthrene	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
3-Nitroaniline	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
4,6-Dinitro-2-methylphenol	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
4-Aminobiphenyl	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
4-Bromophenyl-phenylether	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
4-Chloro-3-Methylphenol	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
4-Chloroaniline	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
4-Chlorobenzilate	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
4-Chlorophenyl-phenylether	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
4-Nitroaniline	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
4-Nitrophenol	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
4-Nitroquinoline-1-oxide	ND(3.9)	ND(41) [ND(43) J]	NA	NA	ND(3.9)	ND(4.5)
4-Phenylenediamine	ND(7.8)	ND(81) [ND(86) J]	NA	NA	ND(7.7)	ND(9.0)
5-Nitro-o-toluidine	ND(0.78)	ND(8.1) [ND(8.6) J]	NA	NA	ND(0.77)	ND(0.90)
7,12-Dimethylbenz(a)anthracene	ND(0.78)	ND(8.1) [ND(8.6) J]	NA	NA	ND(0.77)	ND(0.90)
a,a'-Dimethylphenethylamine	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
Acenaphthene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Acenaphthylene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	0.088 J
Acetophenone	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Aniline	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Anthracene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	0.060 J
Aramite	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
Benzidine	ND(3.9)	ND(41) [ND(43) J]	NA	NA	ND(3.9)	ND(4.5)
Benzo(a)anthracene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	0.19 J
Benzo(a)pyrene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	0.24 J
Benzo(b)fluoranthene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	0.25 J
Benzo(g,h,i)perylene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	0.094 J
Benzo(k)fluoranthene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	0.25 J
Benzyl Alcohol	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
bis(2-Chloroethoxy)methane	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
bis(2-Chloroethyl)ether	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
bis(2-Chloroisopropyl)ether	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
bis(2-Ethylhexyl)phthalate	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Butylbenzylphthalate	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Chrysene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	0.29 J
Diallate	ND(0.78)	ND(8.1) [ND(8.6) J]	NA	NA	ND(0.77)	ND(0.90)
Dibenzo(a,h)anthracene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)

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<b>Semivolatile Organics (continued)</b>						
Dibenzofuran	ND(0.39)	ND(4.1) [ND(8.6) J]	NA	NA	ND(0.39)	ND(0.45)
Diethylphthalate	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Dimethylphthalate	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Di-n-Butylphthalate	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Di-n-Octylphthalate	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Diphenylamine	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Ethyl Methanesulfonate	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Fluoranthene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	0.50
Fluorene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Hexachlorobenzene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Hexachlorobutadiene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Hexachlorocyclopentadiene	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
Hexachloroethane	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Hexachlorophene	ND(7.9)	ND(83) [ND(87) J]	NA	NA	ND(7.9) J	ND(9.2) J
Hexachloropropene	ND(3.9)	ND(41) [ND(43) J]	NA	NA	ND(3.9)	ND(4.5)
Indeno(1,2,3-cd)pyrene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	0.12 J
Isodrin	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Isophorone	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Isosafrole	ND(0.78)	ND(8.1) [ND(8.6) J]	NA	NA	ND(0.77)	ND(0.90)
Methapyrilene	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
Methyl Methanesulfonate	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Naphthalene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Nitrobenzene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
N-Nitrosodiethylamine	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
N-Nitrosodimethylamine	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
N-Nitroso-di-n-butylamine	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
N-Nitroso-di-n-propylamine	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
N-Nitrosodiphenylamine	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
N-Nitrosomethylethylamine	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
N-Nitrosomorpholine	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
N-Nitrosopiperidine	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
N-Nitrosopyrrolidine	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
o,o'-Triethylphosphorothioate	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
o-Toluidine	ND(0.78)	ND(8.1) [ND(8.6) J]	NA	NA	ND(0.77)	ND(0.90)
p-Dimethylaminoazobenzene	ND(0.78)	ND(8.1) [ND(8.6) J]	NA	NA	ND(0.77)	ND(0.90)
Pentachlorobenzene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Pentachloroethane	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
Pentachloronitrobenzene	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
Pentachlorophenol	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
Phenacetin	ND(0.78)	ND(8.1) [ND(8.6) J]	NA	NA	ND(0.77)	ND(0.90)
Phenanthrene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	0.24 J
Phenol	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	ND(0.45)
Pronamide	ND(0.78)	ND(8.1) [ND(8.6) J]	NA	NA	ND(0.77)	ND(0.90)
Pyrene	ND(0.39)	ND(4.1) [ND(4.3) J]	NA	NA	ND(0.39)	0.34 J
Pyridine	ND(0.78)	ND(8.1) [ND(8.6) J]	NA	NA	ND(0.77)	ND(0.90)
Safrole	ND(0.78)	ND(8.1) [ND(8.6) J]	NA	NA	ND(0.77)	ND(0.90)
Thionazin	ND(1.9)	ND(20) [ND(21) J]	NA	NA	ND(1.9)	ND(2.2)
<b>Furans</b>						
2,3,7,8-TCDF	0.000017 Y	ND(0.0000078) [ND(0.0000055)]	NA	NA	ND(0.0000023)	0.00013
TCDFs (total)	0.000019	ND(0.0000078) [ND(0.0000055)]	NA	NA	ND(0.0000023)	ND(0.000073) X
1,2,3,7,8-PeCDF	ND(0.0000057) X	ND(0.0000043) X [ND(0.0000022)]	NA	NA	ND(0.0000014)	0.000031 J
2,3,4,7,8-PeCDF	ND(0.0000026) X	ND(0.0000031) X [ND(0.0000021)]	NA	NA	ND(0.0000013)	0.000032 J
PeCDFs (total)	ND(0.0000057)	ND(0.0000043) [ND(0.0000022)]	NA	NA	ND(0.0000013)	ND(0.000055) X
1,2,3,4,7,8-HxCDF	ND(0.0000061) X	ND(0.0000034) X [ND(0.0000039) X]	NA	NA	ND(0.00000080)	0.000039 J
1,2,3,6,7,8-HxCDF	ND(0.0000020) X	ND(0.0000015) [ND(0.0000021) X]	NA	NA	ND(0.00000074)	ND(0.000054) X
1,2,3,7,8,9-HxCDF	ND(0.00000072)	ND(0.0000022) X [ND(0.0000017)]	NA	NA	ND(0.00000095)	ND(0.0000016)
2,3,4,6,7,8-HxCDF	ND(0.0000018) X	ND(0.0000020) X [ND(0.0000020) X]	NA	NA	ND(0.00000085)	0.000011 J
HxCDFs (total)	ND(0.0000061) X	ND(0.0000034) [ND(0.0000039)]	NA	NA	ND(0.00000083)	ND(0.000042) X
1,2,3,4,6,7,8-HpCDF	ND(0.0000022) X	ND(0.0000065) X [ND(0.0000063) X]	NA	NA	ND(0.0000011)	0.000014
1,2,3,4,7,8,9-HpCDF	ND(0.0000014) X	ND(0.0000022) [ND(0.0000020)]	NA	NA	ND(0.0000014)	ND(0.0000077) X
HpCDFs (total)	ND(0.000022)	ND(0.0000065) [ND(0.0000063)]	NA	NA	ND(0.0000012)	ND(0.000028) X
OCDF	ND(0.0000024)	ND(0.0000015) X [ND(0.0000015)]	NA	NA	ND(0.0000014)	0.000015

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parameter Sample Depth(Feet) Date Collected:	K10-10-33					
	RAA15-G20	RAA15-G20	RAA15-G20	RAA15-G22	RAA15-G22	RAA15-H15
	1-3 02/14/03	10-15 02/14/03	12-15 02/14/03	6-8 02/19/03	6-10 02/19/03	0-1 02/17/03
<b>Dioxins</b>						
2,3,7,8-TCDD	ND(0.00000077)	ND(0.00000030) X [ND(0.00000023)]	NA	NA	ND(0.00000033)	ND(0.00000032)
TCDDs (total)	ND(0.00000077)	ND(0.00000030) [ND(0.00000023)]	NA	NA	ND(0.00000033)	0.00000053 J
1,2,3,7,8-PeCDD	ND(0.00000018)	ND(0.00000057) [ND(0.00000040)]	NA	NA	ND(0.00000015)	ND(0.00000026) X
PeCDDs (total)	ND(0.00000042)	ND(0.00000057) [ND(0.00000040)]	NA	NA	ND(0.00000015)	ND(0.00000015) X
1,2,3,4,7,8-HxCDD	ND(0.00000092) X	ND(0.00000035) [ND(0.00000025)]	NA	NA	ND(0.00000018)	ND(0.00000019) X
1,2,3,6,7,8-HxCDD	ND(0.00000011) X	ND(0.00000031) [ND(0.00000023)]	NA	NA	ND(0.00000017)	ND(0.00000065) X
1,2,3,7,8,9-HxCDD	ND(0.00000013)	ND(0.00000030) [ND(0.00000022)]	NA	NA	ND(0.00000018)	ND(0.00000059) X
HxCDDs (total)	ND(0.00000025)	ND(0.00000035) [ND(0.00000031)]	NA	NA	ND(0.00000017)	ND(0.00000052) X
1,2,3,4,6,7,8-HpCDD	ND(0.00000019) X	ND(0.00000015) X [ND(0.00000010) X]	NA	NA	ND(0.00000014)	0.000016
HpCDDs (total)	ND(0.00000019)	ND(0.00000015) [ND(0.00000011) X]	NA	NA	ND(0.00000014)	0.000027
OCDD	0.000021	0.000017 J [ND(0.000015)]	NA	NA	ND(0.00000012) X	0.000015
Total TEQs (WHO TEFs)	0.00000047	0.00000067 [0.00000049]	NA	NA	0.00000033	0.00000045
<b>Inorganics</b>						
Antimony	ND(7.10) J	ND(18.5) J [ND(19.6) J]	NA	NA	ND(7.00)	ND(8.20) J
Arsenic	2.90	8.70 [8.80]	NA	NA	0.940 B	4.10
Barium	38.7	62.5 [65.7]	NA	NA	8.20 B	43.2
Beryllium	ND(0.500)	ND(0.980) [ND(1.00)]	NA	NA	0.200 B	ND(0.460)
Cadmium	0.400 B	1.10 B [1.10 B]	NA	NA	ND(0.590)	0.550 B
Chromium	12.1	16.5 [17.0]	NA	NA	5.20	25.1
Cobalt	7.70	13.9 B [14.7 B]	NA	NA	4.80 B	7.8
Copper	15.6	30.1 [29.1]	NA	NA	4.40	23.6
Cyanide	ND(0.590)	ND(1.50) [ND(1.60)]	NA	NA	ND(0.590)	ND(0.680)
Lead	14.2	8.10 [8.50]	NA	NA	2.10	42.5
Mercury	0.170	0.0990 B [0.0870 B]	NA	NA	ND(0.0390)	0.230
Nickel	13.4	27.0 [27.6]	NA	NA	10.4	14.5
Selenium	ND(0.590)	1.50 B [2.30]	NA	NA	ND(0.590)	0.520 B
Silver	ND(1.20)	ND(3.10) [ND(3.30)]	NA	NA	ND(1.20)	ND(1.40)
Sulfide	ND(11.8)	31.6 [58.5]	NA	NA	ND(11.7)	ND(13.7)
Thallium	1.30	ND(3.10) [ND(3.30)]	NA	NA	ND(1.20) J	1.10 J
Tin	ND(5.80)	ND(12.4) [ND(14.4)]	NA	NA	ND(4.50)	8.70 B
Vanadium	11.1	18.0 [19.4]	NA	NA	5.00 B	13.1
Zinc	51.5	87.9 [91.3]	NA	NA	26.3	79.6

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-10-33					
	RAA15-H18 0-1 02/18/03	RAA15-J18 1-3 02/14/03	RAA15-J18 6-10 02/14/03	RAA15-J18 8-10 02/14/03	RAA15-J19 0-1 02/18/03	RAA15-L17 0-1 02/17/03
<b>Volatile Organics</b>						
1,1,1,2-Tetrachloroethane	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
1,1,1-Trichloroethane	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
1,1,2,2-Tetrachloroethane	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
1,1,2-Trichloroethane	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
1,1-Dichloroethane	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
1,1-Dichloroethene	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
1,2,3-Trichloropropane	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
1,2-Dibromo-3-chloropropane	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
1,2-Dibromoethane	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
1,2-Dichloroethane	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
1,2-Dichloropropane	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
1,4-Dioxane	ND(0.99) J	ND(1.0) J	NA	ND(1.3) J	ND(1.2) J	ND(1.1) J
2-Butanone	ND(0.0049) J	ND(0.0052) J	NA	ND(0.0064) J	ND(0.0060) J	ND(0.0054) J
2-Chloro-1,3-butadiene	ND(0.0049) J	ND(0.0052) J	NA	ND(0.0064) J	ND(0.0060) J	ND(0.0054) J
2-Chloroethylvinylether	ND(0.0099) J	ND(0.010) J	NA	ND(0.013) J	ND(0.012) J	ND(0.011) J
2-Hexanone	ND(0.020) J	ND(0.021) J	NA	ND(0.025) J	ND(0.024) J	ND(0.022) J
3-Chloropropene	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
4-Methyl-2-pentanone	ND(0.020)	ND(0.021)	NA	ND(0.025)	ND(0.024)	ND(0.022)
Acetone	ND(0.020) J	ND(0.021) J	NA	0.0087 J	ND(0.024) J	ND(0.022) J
Acetonitrile	ND(0.099) J	ND(0.10) J	NA	ND(0.13) J	ND(0.12) J	ND(0.11) J
Acrolein	ND(0.099) J	ND(0.10) J	NA	ND(0.13)	ND(0.12) J	ND(0.11) J
Acrylonitrile	ND(0.099) J	ND(0.10)	NA	ND(0.13)	ND(0.12) J	ND(0.11) J
Benzene	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Bromodichloromethane	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Bromoform	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Bromomethane	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Carbon Disulfide	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Carbon Tetrachloride	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Chlorobenzene	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Chloroethane	ND(0.0099)	ND(0.010)	NA	ND(0.013)	ND(0.012)	ND(0.011)
Chloroform	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Chloromethane	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
cis-1,3-Dichloropropene	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Dibromochloromethane	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Dibromomethane	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Dichlorodifluoromethane	ND(0.0049)	ND(0.0052) J	NA	ND(0.0064) J	ND(0.0060)	ND(0.0054)
Ethyl Methacrylate	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Ethylbenzene	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Iodomethane	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Isobutanol	ND(0.20) J	ND(0.21) J	NA	ND(0.25) J	ND(0.24) J	ND(0.22) J
Methacrylonitrile	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Methyl Methacrylate	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Methylene Chloride	ND(0.0049)	0.00088 J	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Propionitrile	ND(0.0099)	ND(0.010)	NA	ND(0.013)	ND(0.012)	ND(0.011)
Styrene	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Tetrachloroethene	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Toluene	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
trans-1,2-Dichloroethene	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
trans-1,3-Dichloropropene	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
trans-1,4-Dichloro-2-butene	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Trichloroethene	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Trichlorofluoromethane	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Vinyl Acetate	ND(0.0049)	ND(0.0052)	NA	ND(0.0064)	ND(0.0060)	ND(0.0054)
Vinyl Chloride	ND(0.0099)	ND(0.010)	NA	ND(0.013)	ND(0.012)	ND(0.011)
Xylenes (total)	ND(0.0049)	0.0017 J	NA	0.0026 J	ND(0.0060)	ND(0.0054)
<b>Semivolatile Organics</b>						
1,2,4,5-Tetrachlorobenzene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
1,2,4-Trichlorobenzene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
1,2-Dichlorobenzene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
1,2-Diphenylhydrazine	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
1,3,5-Trinitrobenzene	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)
1,3-Dichlorobenzene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parameter	Parcel ID:	K10-10-33					
	Sample ID:	RAA15-H18	RAA15-J18	RAA15-J18	RAA15-J18	RAA15-J19	RAA15-L17
	Sample Depth (Feet): Date Collected:	0-1 02/18/03	1-3 02/14/03	6-10 02/14/03	8-10 02/14/03	0-1 02/18/03	0-1 02/17/03
<b>Semivolatile Organics (continued)</b>							
1,3-Dinitrobenzene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
1,4-Dichlorobenzene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
1,4-Naphthoquinone	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)	
1-Naphthylamine	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
2,3,4,6-Tetrachlorophenol	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
2,4,5-Trichlorophenol	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
2,4,6-Trichlorophenol	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
2,4-Dichlorophenol	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
2,4-Dimethylphenol	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
2,4-Dinitrophenol	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)	
2,4-Dinitrotoluene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
2,6-Dichlorophenol	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
2,6-Dinitrotoluene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
2-Acetylaminofluorene	ND(1.6)	ND(0.74)	ND(0.92)	NA	ND(0.90)	ND(0.81)	
2-Chloronaphthalene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
2-Chlorophenol	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
2-Methylnaphthalene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
2-Methylphenol	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
2-Naphthylamine	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
2-Nitroaniline	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)	
2-Nitrophenol	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
2-Picoline	ND(1.6)	ND(0.74)	ND(0.92)	NA	ND(0.90)	ND(0.81)	
3&4-Methylphenol	ND(1.6)	ND(0.74)	ND(0.92)	NA	ND(0.90)	ND(0.81)	
3,3'-Dichlorobenzidine	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)	
3,3'-Dimethylbenzidine	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)	
3-Methylcholanthrene	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)	
3-Nitroaniline	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)	
4,6-Dinitro-2-methylphenol	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)	
4-Aminobiphenyl	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)	
4-Bromophenyl-phenylether	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
4-Chloro-3-Methylphenol	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
4-Chloroaniline	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
4-Chlorobenzilate	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
4-Chlorophenyl-phenylether	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
4-Nitroaniline	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)	
4-Nitrophenol	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)	
4-Nitroquinoline-1-oxide	ND(7.9)	ND(3.7)	ND(4.6)	NA	ND(4.5)	ND(4.0)	
4-Phenylenediamine	ND(16)	ND(7.4)	ND(9.2)	NA	ND(9.0)	ND(8.1)	
5-Nitro-o-toluidine	ND(1.6)	ND(0.74)	ND(0.92)	NA	ND(0.90)	ND(0.81)	
7,12-Dimethylbenz(a)anthracene	ND(1.6)	ND(0.74)	ND(0.92)	NA	ND(0.90)	ND(0.81)	
a,a'-Dimethylphenethylamine	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)	
Acenaphthene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
Acenaphthylene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	0.030 J	
Acetophenone	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
Aniline	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
Anthracene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
Aramite	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)	
Benzidine	ND(7.9)	ND(3.7)	ND(4.6)	NA	ND(4.5)	ND(4.0)	
Benzo(a)anthracene	0.12 J	ND(0.37)	0.064 J	NA	0.064 J	0.095 J	
Benzo(a)pyrene	0.16 J	ND(0.37)	0.054 J	NA	0.077 J	0.12 J	
Benzo(b)fluoranthene	0.17 J	ND(0.37)	0.054 J	NA	0.070 J	0.11 J	
Benzo(g,h,i)perylene	ND(0.79)	ND(0.37)	ND(0.46)	NA	0.066 J	ND(0.40)	
Benzo(k)fluoranthene	0.20 J	ND(0.37)	ND(0.46)	NA	ND(0.45)	0.13 J	
Benzyl Alcohol	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
bis(2-Chloroethoxy)methane	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
bis(2-Chloroethyl)ether	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
bis(2-Chloroisopropyl)ether	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
bis(2-Ethylhexyl)phthalate	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
Butylbenzylphthalate	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	
Chrysene	0.19 J	ND(0.37)	0.089 J	NA	0.097 J	0.13 J	
Diallate	ND(1.6)	ND(0.74)	ND(0.92)	NA	ND(0.90)	ND(0.81)	
Dibenzo(a,h)anthracene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)	

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-10-33					
	RAA15-H18	RAA15-J18	RAA15-J18	RAA15-J18	RAA15-J19	RAA15-L17
	0-1 02/18/03	1-3 02/14/03	6-10 02/14/03	8-10 02/14/03	0-1 02/18/03	0-1 02/17/03
<b>Semivolatile Organics (continued)</b>						
Dibenzofuran	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
Diethylphthalate	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
Dimethylphthalate	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
Di-n-Butylphthalate	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
Di-n-Octylphthalate	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
Diphenylamine	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
Ethyl Methanesulfonate	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
Fluoranthene	0.36 J	ND(0.37)	0.10 J	NA	0.15 J	0.24 J
Fluorene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
Hexachlorobenzene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
Hexachlorobutadiene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
Hexachlorocyclopentadiene	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)
Hexachloroethane	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
Hexachlorophene	ND(16) J	ND(7.5)	ND(9.3)	NA	ND(9.2) J	ND(8.2) J
Hexachloropropene	ND(7.9)	ND(3.7)	ND(4.6)	NA	ND(4.5)	ND(4.0)
Indeno(1,2,3-cd)pyrene	ND(0.79)	ND(0.37)	ND(0.46)	NA	0.066 J	ND(0.40)
Isodrin	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
Isophorone	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
Isosafrole	ND(1.6)	ND(0.74)	ND(0.92)	NA	ND(0.90)	ND(0.81)
Methapyrilene	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)
Methyl Methanesulfonate	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
Naphthalene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
Nitrobenzene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
N-Nitrosodiethylamine	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
N-Nitrosodimethylamine	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
N-Nitroso-di-n-butylamine	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
N-Nitroso-di-n-propylamine	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
N-Nitrosodiphenylamine	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
N-Nitrosomethylethylamine	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
N-Nitrosomorpholine	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
N-Nitrosopiperidine	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
N-Nitrosopyrrolidine	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
o,o,o-Triethylphosphorothioate	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)
o-Toluidine	ND(1.6)	ND(0.74)	ND(0.92)	NA	ND(0.90)	ND(0.81)
p-Dimethylaminoazobenzene	ND(1.6)	ND(0.74)	ND(0.92)	NA	ND(0.90)	ND(0.81)
Pentachlorobenzene	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
Pentachloroethane	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)
Pentachloronitrobenzene	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)
Pentachlorophenol	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)
Phenacetin	ND(1.6)	ND(0.74)	ND(0.92)	NA	ND(0.90)	ND(0.81)
Phenanthrene	0.15 J	ND(0.37)	0.060 J	NA	0.083 J	0.10 J
Phenol	ND(0.79)	ND(0.37)	ND(0.46)	NA	ND(0.45)	ND(0.40)
Pronamide	ND(1.6)	ND(0.74)	ND(0.92)	NA	ND(0.90)	ND(0.81)
Pyrene	0.19 J	ND(0.37)	0.12 J	NA	0.15 J	0.15 J
Pyridine	ND(1.6)	ND(0.74)	ND(0.92)	NA	ND(0.90)	ND(0.81)
Safrole	ND(1.6)	ND(0.74)	ND(0.92)	NA	ND(0.90)	ND(0.81)
Thionazin	ND(3.8)	ND(1.8)	ND(2.2)	NA	ND(2.2)	ND(2.0)
<b>Furans</b>						
2,3,7,8-TCDF	0.000016	ND(0.0000053) Y	0.0000034 Y	NA	0.000021 J	0.0000014
TCDFs (total)	ND(0.000091) X	0.0000063	0.0000085	NA	ND(0.00015) X	ND(0.0000051) X
1,2,3,7,8-PeCDF	0.0000032 J	ND(0.0000020) X	ND(0.0000020) X	NA	ND(0.0000043) X	ND(0.0000029) X
2,3,4,7,8-PeCDF	0.0000036 J	ND(0.0000019) X	ND(0.0000085) X	NA	0.0000068 J	ND(0.0000034) X
PeCDFs (total)	ND(0.000089) X	ND(0.0000025)	ND(0.0000020)	NA	ND(0.00016) X	ND(0.0000064) X
1,2,3,4,7,8-HxCDF	0.0000038 J	ND(0.0000044) X	ND(0.0000015) X	NA	0.0000080	0.0000058 J
1,2,3,6,7,8-HxCDF	ND(0.000092) X	ND(0.0000016) X	ND(0.0000020) X	NA	ND(0.000015) X	ND(0.0000088) X
1,2,3,7,8,9-HxCDF	ND(0.0000016)	ND(0.0000011)	ND(0.0000022) X	NA	ND(0.0000027)	ND(0.0000012)
2,3,4,6,7,8-HxCDF	0.0000021 J	ND(0.0000018) X	ND(0.0000074) X	NA	ND(0.0000025)	ND(0.0000017) X
HxCDFs (total)	ND(0.000082) X	ND(0.0000044)	0.000015	NA	ND(0.000097) X	ND(0.0000060) X
1,2,3,4,6,7,8-HpCDF	0.000027	ND(0.0000088) X	0.000022	NA	0.000037	0.0000018 J
1,2,3,4,7,8,9-HpCDF	0.0000011 J	ND(0.0000011) X	ND(0.0000014) X	NA	0.0000017 J	ND(0.0000018)
HpCDFs (total)	0.000051	ND(0.0000088)	0.000051	NA	ND(0.000069) X	ND(0.0000029) X
OCDF	0.000016	ND(0.0000013) X	0.000038	NA	0.000028	0.0000012 J

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parameter	K10-10-33					
	RAA15-H18	RAA15-J18	RAA15-J18	RAA15-J18	RAA15-J19	RAA15-L17
	0-1 02/18/03	1-3 02/14/03	6-10 02/14/03	8-10 02/14/03	0-1 02/18/03	0-1 02/17/03
<b>Dioxins</b>						
2,3,7,8-TCDD	ND(0.00000031)	ND(0.00000011) X	ND(0.000000099)	NA	ND(0.00000053)	ND(0.00000040)
TCDDs (total)	ND(0.0000014) X	ND(0.00000011)	ND(0.00000015)	NA	ND(0.0000016) X	ND(0.00000040)
1,2,3,7,8-PeCDD	ND(0.00000020)	ND(0.00000024)	ND(0.00000026)	NA	ND(0.00000046) X	ND(0.00000017)
PeCDDs (total)	ND(0.0000011) X	ND(0.00000024)	ND(0.00000011)	NA	ND(0.00000037) X	ND(0.00000017)
1,2,3,4,7,8-HxCDD	ND(0.00000032) X	ND(0.00000015)	ND(0.000000051) X	NA	ND(0.00000031)	ND(0.00000019)
1,2,3,6,7,8-HxCDD	ND(0.00000078) X	ND(0.00000023) X	0.0000042 J	NA	ND(0.0000012) X	ND(0.00000018)
1,2,3,7,8,9-HxCDD	ND(0.00000055) X	ND(0.00000017) X	ND(0.00000011)	NA	ND(0.00000076) X	ND(0.00000018)
HxCDDs (total)	ND(0.0000064) X	ND(0.00000027)	0.000023	NA	ND(0.000010) X	ND(0.00000018)
1,2,3,4,6,7,8-HpCDD	0.000014	ND(0.0000022) X	0.000069	NA	0.000025 J	0.000010 J
HpCDDs (total)	0.000025	ND(0.0000022)	0.00013	NA	0.000042	ND(0.0000016) X
OCDD	0.00012	ND(0.000028)	0.00074	NA	0.00020 J	0.0000076 J
Total TEQs (WHO TEFs)	0.0000054	0.00000034	0.0000025	NA	0.0000085	0.00000069
<b>Inorganics</b>						
Antimony	ND(7.20) J	ND(6.80) J	ND(8.30) J	NA	ND(8.20) J	ND(8.20) J
Arsenic	4.80	5.70	1.80	NA	6.70	3.80
Barium	34.1	40.6	23.6 B	NA	77.4	41.8
Beryllium	ND(0.460)	ND(0.400)	ND(0.280)	NA	0.900	ND(0.500)
Cadmium	0.670	0.760	0.330 B	NA	0.860	0.500 B
Chromium	10.5	12.4	17.5	NA	38.4	23.6
Cobalt	8	11.5	5.30 B	NA	11.6	7.4
Copper	15.9	21.2	13.6	NA	34.5	25.7
Cyanide	ND(0.400)	ND(0.560)	ND(0.690)	NA	ND(0.240)	ND(0.610)
Lead	23.7	10.9	13.6	NA	58.7	33
Mercury	0.110	0.0420	0.110	NA	0.540	0.240
Nickel	16.7	22.2	9.60	NA	20.5	13.7
Selenium	ND(0.600)	ND(0.560)	ND(0.700)	NA	0.610 B	0.360 B
Silver	ND(1.20)	ND(1.10)	ND(1.40)	NA	ND(1.40)	ND(1.20)
Sulfide	ND(12.0)	20.2	94.3	NA	ND(13.7)	ND(12.3)
Thallium	1.80	1.70	1.10 B	NA	2.40	1.60
Tin	9.00 B	ND(5.20)	ND(7.30)	NA	9.40 B	8.00 B
Vanadium	11.9	11.3	7.60	NA	21.8	13.4
Zinc	67.9	75.4	54.7	NA	110	69.2



**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-1				
	RAA15-C4 0-1 03/07/03	RAA15-C4 3-6 03/07/03	RAA15-C4 4-6 03/07/03	RAA15-C5 10-15 01/31/05	RAA15-C5 13-15 01/31/05
<b>Volatile Organics</b>					
1,1,1,2-Tetrachloroethane	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
1,1,1-Trichloroethane	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
1,1,2,2-Tetrachloroethane	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
1,1,2-Trichloroethane	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
1,1-Dichloroethane	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
1,1-Dichloroethene	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
1,2,3-Trichloropropane	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
1,2-Dibromo-3-chloropropane	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
1,2-Dibromoethane	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
1,2-Dichloroethane	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
1,2-Dichloropropane	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
1,4-Dioxane	ND(1.0) J	NA	ND(1.2) J [ND(1.1) J]	NA	ND(0.16) J
2-Butanone	ND(0.0050) J	NA	ND(0.0058) J [ND(0.0057) J]	NA	0.0085 J
2-Chloro-1,3-butadiene	ND(0.0050) J	NA	ND(0.0058) J [ND(0.0057) J]	NA	ND(0.0081) J
2-Chloroethylvinylether	ND(0.010) J	NA	ND(0.012) J [ND(0.011) J]	NA	ND(0.0081) J
2-Hexanone	ND(0.020)	NA	ND(0.023) [ND(0.023)]	NA	ND(0.016) J
3-Chloropropene	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
4-Methyl-2-pentanone	ND(0.020)	NA	ND(0.023) [ND(0.023)]	NA	ND(0.016) J
Acetone	ND(0.020) J	NA	ND(0.023) J [ND(0.023) J]	NA	0.12 J
Acetonitrile	ND(0.10)	NA	ND(0.12) [ND(0.11)]	NA	ND(0.16) J
Acrolein	ND(0.10) J	NA	ND(0.12) J [ND(0.11) J]	NA	ND(0.16) J
Acrylonitrile	ND(0.10) J	NA	ND(0.12) J [ND(0.11) J]	NA	ND(0.0081) J
Benzene	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Bromodichloromethane	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Bromoform	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Bromomethane	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Carbon Disulfide	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	0.0013 J
Carbon Tetrachloride	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Chlorobenzene	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Chloroethane	ND(0.010)	NA	ND(0.012) [ND(0.011)]	NA	ND(0.0081) J
Chloroform	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Chloromethane	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
cis-1,3-Dichloropropene	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Dibromochloromethane	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Dibromomethane	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Dichlorodifluoromethane	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Ethyl Methacrylate	ND(0.0050) J	NA	ND(0.0058) J [ND(0.0057) J]	NA	ND(0.0081) J
Ethylbenzene	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Iodomethane	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Isobutanol	ND(0.20) J	NA	ND(0.23) J [ND(0.23) J]	NA	ND(0.16) J
Methacrylonitrile	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Methyl Methacrylate	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Methylene Chloride	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Propionitrile	ND(0.010)	NA	ND(0.012) [ND(0.011)]	NA	ND(0.016) J
Styrene	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Tetrachloroethene	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Toluene	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
trans-1,2-Dichloroethene	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
trans-1,3-Dichloropropene	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
trans-1,4-Dichloro-2-butene	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Trichloroethene	ND(0.0050)	NA	0.0015 J [0.0046 J]	NA	ND(0.0081) J
Trichlorofluoromethane	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Vinyl Acetate	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
Vinyl Chloride	ND(0.010)	NA	ND(0.012) [ND(0.011)]	NA	ND(0.0081) J
Xylenes (total)	ND(0.0050)	NA	ND(0.0058) [ND(0.0057)]	NA	ND(0.0081) J
<b>Semivolatile Organics</b>					
1,2,4,5-Tetrachlorobenzene	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
1,2,4-Trichlorobenzene	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
1,2-Dichlorobenzene	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
1,2-Diphenylhydrazine	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
1,3,5-Trinitrobenzene	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(0.48) J	NA
1,3-Dichlorobenzene	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-1				
	RAA15-C4 0-1 03/07/03	RAA15-C4 3-6 03/07/03	RAA15-C4 4-6 03/07/03	RAA15-C5 10-15 01/31/05	RAA15-C5 13-15 01/31/05
<b>Semivolatile Organics (continued)</b>					
1,3-Dinitrobenzene	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.96)	NA
1,4-Dichlorobenzene	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
1,4-Naphthoquinone	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(0.96)	NA
1-Naphthylamine	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.96)	NA
2,3,4,6-Tetrachlorophenol	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
2,4,5-Trichlorophenol	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
2,4,6-Trichlorophenol	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
2,4-Dichlorophenol	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
2,4-Dimethylphenol	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
2,4-Dinitrophenol	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(2.4)	NA
2,4-Dinitrotoluene	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
2,6-Dichlorophenol	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
2,6-Dinitrotoluene	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
2-Acetylaminofluorene	ND(0.77)	ND(0.76) [ND(0.75)]	NA	ND(0.96)	NA
2-Chloronaphthalene	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
2-Chlorophenol	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
2-Methylnaphthalene	0.046 J	0.031 J [0.024 J]	NA	ND(0.48)	NA
2-Methylphenol	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
2-Naphthylamine	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.96)	NA
2-Nitroaniline	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(2.4)	NA
2-Nitrophenol	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.96)	NA
2-Picoline	ND(0.77)	ND(0.76) [ND(0.75)]	NA	ND(0.48)	NA
3&4-Methylphenol	ND(0.77)	ND(0.76) [ND(0.75)]	NA	ND(0.96)	NA
3,3'-Dichlorobenzidine	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(0.96)	NA
3,3'-Dimethylbenzidine	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(0.48)	NA
3-Methylcholanthrene	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(0.96)	NA
3-Nitroaniline	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(2.4)	NA
4,6-Dinitro-2-methylphenol	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(0.48)	NA
4-Aminobiphenyl	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(0.96) J	NA
4-Bromophenyl-phenylether	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
4-Chloro-3-Methylphenol	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
4-Chloroaniline	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
4-Chlorobenzilate	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.96)	NA
4-Chlorophenyl-phenylether	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
4-Nitroaniline	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(2.4)	NA
4-Nitrophenol	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(2.4)	NA
4-Nitroquinoline-1-oxide	ND(3.9)	ND(3.8) [ND(3.7)]	NA	ND(0.96) J	NA
4-Phenylenediamine	ND(7.7)	ND(7.6) [ND(7.5)]	NA	ND(0.96)	NA
5-Nitro-o-toluidine	ND(0.77)	ND(0.76) [ND(0.75)]	NA	ND(0.96)	NA
7,12-Dimethylbenz(a)anthracene	ND(0.77)	ND(0.76) [ND(0.75)]	NA	ND(0.96)	NA
a,a'-Dimethylphenethylamine	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(0.96) J	NA
Acenaphthene	ND(0.39)	ND(0.38) [0.048 J]	NA	ND(0.48)	NA
Acenaphthylene	0.31 J	0.11 J [0.075 J]	NA	ND(0.48)	NA
Acetophenone	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
Aniline	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48) J	NA
Anthracene	0.19 J	0.082 J [0.14 J]	NA	ND(0.48)	NA
Aramite	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(0.96)	NA
Benzidine	ND(3.9)	ND(3.8) [ND(3.7)]	NA	ND(0.96) J	NA
Benzo(a)anthracene	1.2	0.44 [0.41]	NA	ND(0.48)	NA
Benzo(a)pyrene	1.3	0.50 [0.41]	NA	ND(0.48)	NA
Benzo(b)fluoranthene	1.2	0.36 J [0.31 J]	NA	ND(0.48)	NA
Benzo(g,h,i)perylene	0.94	0.33 J [0.24 J]	NA	ND(0.48)	NA
Benzo(k)fluoranthene	1.0	0.43 [0.35 J]	NA	ND(0.48)	NA
Benzyl Alcohol	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.96)	NA
bis(2-Chloroethoxy)methane	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
bis(2-Chloroethyl)ether	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
bis(2-Chloroisopropyl)ether	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
bis(2-Ethylhexyl)phthalate	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.47)	NA
Butylbenzylphthalate	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
Chrysene	1.4	0.51 [0.46]	NA	ND(0.48)	NA
Diallylate	ND(0.77)	ND(0.76) [ND(0.75)]	NA	ND(0.96)	NA
Dibenzo(a,h)anthracene	0.33 J	0.11 J [0.069 J]	NA	ND(0.48)	NA

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth (Feet): Parameter Date Collected:	K10-11-1				
	RAA15-C4 0-1 03/07/03	RAA15-C4 3-6 03/07/03	RAA15-C4 4-6 03/07/03	RAA15-C5 10-15 01/31/05	RAA15-C5 13-15 01/31/05
<b>Semivolatile Organics (continued)</b>					
Dibenzofuran	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
Diethylphthalate	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
Dimethylphthalate	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
Di-n-Butylphthalate	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
Di-n-Octylphthalate	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
Diphenylamine	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
Ethyl Methanesulfonate	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
Fluoranthene	1.7	0.71 [0.75]	NA	ND(0.48)	NA
Fluorene	ND(0.39)	ND(0.38) [0.044 J]	NA	ND(0.48)	NA
Hexachlorobenzene	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
Hexachlorobutadiene	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
Hexachlorocyclopentadiene	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(0.48)	NA
Hexachloroethane	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
Hexachlorophene	ND(7.8) J	ND(7.7) J [ND(7.6) J]	NA	ND(0.96) J	NA
Hexachloropropene	ND(3.9)	ND(3.8) [ND(3.7)]	NA	ND(0.48)	NA
Indeno(1,2,3-cd)pyrene	1.0	0.35 J [0.26 J]	NA	ND(0.48)	NA
Isodrin	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
Isophorone	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
Isosafrole	ND(0.77)	ND(0.76) [ND(0.75)]	NA	ND(0.96)	NA
Methapyrilene	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(0.96)	NA
Methyl Methanesulfonate	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
Naphthalene	0.062 J	0.050 J [0.032 J]	NA	ND(0.48)	NA
Nitrobenzene	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
N-Nitrosodiethylamine	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
N-Nitrosodimethylamine	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
N-Nitroso-di-n-butylamine	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.96)	NA
N-Nitroso-di-n-propylamine	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
N-Nitrosodiphenylamine	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
N-Nitrosomethylethylamine	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.96)	NA
N-Nitrosomorpholine	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
N-Nitrosopiperidine	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
N-Nitrosopyrrolidine	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.96)	NA
o,o-Triethylphosphorothioate	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(0.48)	NA
o-Toluidine	ND(0.77)	ND(0.76) [ND(0.75)]	NA	ND(0.48)	NA
p-Dimethylaminoazobenzene	ND(0.77)	ND(0.76) [ND(0.75)]	NA	ND(0.96)	NA
Pentachlorobenzene	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
Pentachloroethane	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(0.48)	NA
Pentachloronitrobenzene	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(0.96)	NA
Pentachlorophenol	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(2.4)	NA
Phenacetin	ND(0.77)	ND(0.76) [ND(0.75)]	NA	ND(0.96)	NA
Phenanthrene	0.95	0.34 J [0.51]	NA	ND(0.48)	NA
Phenol	ND(0.39)	ND(0.38) [ND(0.37)]	NA	ND(0.48)	NA
Pronamide	ND(0.77)	ND(0.76) [ND(0.75)]	NA	ND(0.48)	NA
Pyrene	1.8	0.82 [0.71]	NA	0.057 J	NA
Pyridine	ND(0.77)	ND(0.76) [ND(0.75)]	NA	ND(0.48)	NA
Safrole	ND(0.77)	ND(0.76) [ND(0.75)]	NA	ND(0.48) J	NA
Thionazin	ND(1.9)	ND(1.8) [ND(1.8)]	NA	ND(0.48)	NA
<b>Furans</b>					
2,3,7,8-TCDF	ND(0.000022) X	ND(0.000074) X [ND(0.000079) X]	NA	ND(0.0000070)	NA
TCDFs (total)	ND(0.000041) X	ND(0.000087) X [ND(0.000098) X]	NA	ND(0.0000070)	NA
1,2,3,7,8-PeCDF	0.0000013 J	0.0000022 J [ND(0.000028) X]	NA	ND(0.0000047)	NA
2,3,4,7,8-PeCDF	0.0000015 J	0.0000026 J [ND(0.000026) X]	NA	ND(0.0000046)	NA
PeCDFs (total)	ND(0.00010) X	ND(0.000097) XQJ [ND(0.00014) X]	NA	ND(0.0000047)	NA
1,2,3,4,7,8-HxCDF	0.0000027 J	0.0000041 J [0.000032 J]	NA	ND(0.0000043)	NA
1,2,3,6,7,8-HxCDF	ND(0.000015) X	ND(0.000011) X [0.000019 J]	NA	ND(0.0000041)	NA
1,2,3,7,8,9-HxCDF	ND(0.0000015)	0.0000014 J [0.0000018 J]	NA	ND(0.0000051)	NA
2,3,4,6,7,8-HxCDF	0.0000010 J	ND(0.000014) X [ND(0.000020) X]	NA	ND(0.0000044)	NA
HxCDFs (total)	ND(0.000069) XQJ	ND(0.000059) XQJ [ND(0.000079) XQJ]	NA	ND(0.0000051)	NA
1,2,3,4,6,7,8-HpCDF	0.0000037 J	0.0000054 J [0.0000079]	NA	ND(0.0000031)	NA
1,2,3,4,7,8,9-HpCDF	ND(0.0000088) X	0.0000011 J [0.000013 J]	NA	ND(0.0000029)	NA
HpCDFs (total)	ND(0.000097) X	ND(0.000011) X [ND(0.000018) X]	NA	ND(0.0000031)	NA
OCDF	ND(0.0000031)	ND(0.0000040) [0.0000043 J]	NA	ND(0.0000043)	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter Sample Depth(Feet): Date Collected:	K10-11-1				
	RAA15-C4 0-1 03/07/03	RAA15-C4 3-6 03/07/03	RAA15-C4 4-6 03/07/03	RAA15-C5 10-15 01/31/05	RAA15-C5 13-15 01/31/05
	<b>Dioxins</b>				
2,3,7,8-TCDD	ND(0.0000034)	0.0000085 J [ND(0.0000027)]	NA	ND(0.0000029)	NA
TCDDs (total)	ND(0.0000074) X	ND(0.000067) X [ND(0.000016) X]	NA	ND(0.0000029)	NA
1,2,3,7,8-PeCDD	ND(0.0000023)	0.0000025 J [0.0000069 J]	NA	ND(0.0000060)	NA
PeCDDs (total)	ND(0.000014) X	ND(0.000039) XQJ [ND(0.000013) X]	NA	ND(0.0000060)	NA
1,2,3,4,7,8-HxCDD	ND(0.0000025)	0.000016 J [ND(0.0000038) X]	NA	ND(0.0000051)	NA
1,2,3,6,7,8-HxCDD	ND(0.0000024)	0.0000012 J [0.0000066 J]	NA	ND(0.0000046)	NA
1,2,3,7,8,9-HxCDD	ND(0.0000025)	ND(0.000012) XQJ [ND(0.0000059) XQJ]	NA	ND(0.0000047)	NA
HxCDDs (total)	ND(0.000025) X	ND(0.000020) XQJ [ND(0.000011) XQJ]	NA	ND(0.0000051)	NA
1,2,3,4,6,7,8-HpCDD	0.000010 JQ	0.000038 J [0.000027 JQ]	NA	ND(0.0000059)	NA
HpCDDs (total)	0.000023 JQ	0.000092 J [0.000075 JQ]	NA	ND(0.0000059)	NA
OCDD	0.000071 J	0.000010 QJ [0.000012 QJ]	NA	ND(0.0000037)	NA
Total TEQs (WHO TEFs)	0.000024	0.000066 [0.000028]	NA	0.0000077	NA
<b>Inorganics</b>					
Antimony	ND(7.00)	0.520 B [ND(6.80)]	NA	ND(6.00)	NA
Arsenic	5.60	12.4 [8.50]	NA	0.760 B	NA
Barium	29.5	65.6 [71.0]	NA	28.0	NA
Beryllium	ND(0.550)	0.670 [0.590]	NA	0.140 B	NA
Cadmium	ND(0.590)	ND(0.580) [ND(0.0520)]	NA	0.200 B	NA
Chromium	8.20	9.20 [7.00]	NA	ND(1.8)	NA
Cobalt	8.80	9.20 [6.00]	NA	5.00	NA
Copper	37.1 J	53.6 J [35.5 J]	NA	5.40	NA
Cyanide	0.220 B	ND(0.580) [ND(0.570)]	NA	0.0570 B	NA
Lead	64.9 J	28.6 J [75.0 J]	NA	2.00 J	NA
Mercury	0.540	1.30 [1.40]	NA	0.160	NA
Nickel	15.0 J	17.3 J [12.4 J]	NA	8.40	NA
Selenium	ND(0.590)	ND(0.580) [ND(0.570)]	NA	ND(1.10) J	NA
Silver	ND(1.20)	ND(1.20) [ND(1.10)]	NA	ND(1.10)	NA
Sulfide	28.1	13.8 [ND(11.3)]	NA	130	NA
Thallium	ND(1.20)	0.700 B [ND(1.10)]	NA	ND(1.40) J	NA
Tin	20.6	ND(8.00) [ND(6.80)]	NA	ND(10.0)	NA
Vanadium	10.4	14.7 [10.6]	NA	1.30 B	NA
Zinc	61.8	74.2 [107]	NA	41.0	NA

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parameter	Parcel ID:	K10-11-1					
	Sample ID:	RAA15-D3	RAA15-E4	RAA15-E4	RAA15-E4	RAA15-E5	RAA15-E5
	Sample Depth(Feet): Date Collected:	0-1 03/10/03	1-3 03/07/03	3-6 03/07/03	4-6 03/07/03	0-1 03/10/03	1-3 05/05/04
<b>Volatile Organics</b>							
1,1,1,2-Tetrachloroethane	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
1,1,1-Trichloroethane	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
1,1,2,2-Tetrachloroethane	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
1,1,2-Trichloroethane	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
1,1-Dichloroethane	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
1,1-Dichloroethene	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
1,2,3-Trichloropropane	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
1,2-Dibromo-3-chloropropane	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
1,2-Dibromoethane	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
1,2-Dichloroethane	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
1,2-Dichloropropane	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
1,4-Dioxane	ND(0.92) J	ND(0.89) J	NA	ND(0.91) J	ND(1.0) J	NA	
2-Butanone	ND(0.0046) J	ND(0.0044) J	NA	ND(0.0046) J	ND(0.0052) J	NA	
2-Chloro-1,3-butadiene	ND(0.0046)	ND(0.0044)	NA	ND(0.0046) J	ND(0.0052)	NA	
2-Chloroethylvinylether	ND(0.0092) J	ND(0.0089) J	NA	ND(0.0091) J	ND(0.010) J	NA	
2-Hexanone	ND(0.018) J	ND(0.018)	NA	ND(0.018)	ND(0.021) J	NA	
3-Chloropropene	ND(0.0046) J	ND(0.0044)	NA	ND(0.0046)	ND(0.0052) J	NA	
4-Methyl-2-pentanone	ND(0.018)	ND(0.018)	NA	ND(0.018)	ND(0.021)	NA	
Acetone	ND(0.018) J	ND(0.018) J	NA	ND(0.018) J	ND(0.021) J	NA	
Acetonitrile	ND(0.092)	ND(0.089)	NA	ND(0.091)	ND(0.10)	NA	
Acrolein	ND(0.092)	ND(0.089) J	NA	ND(0.091) J	ND(0.10)	NA	
Acrylonitrile	ND(0.092)	ND(0.089) J	NA	ND(0.091) J	ND(0.10)	NA	
Benzene	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Bromodichloromethane	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Bromoform	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Bromomethane	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Carbon Disulfide	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Carbon Tetrachloride	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Chlorobenzene	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Chloroethane	ND(0.0092)	ND(0.0089)	NA	ND(0.0091)	ND(0.010)	NA	
Chloroform	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Chloromethane	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
cis-1,3-Dichloropropene	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Dibromochloromethane	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Dibromomethane	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Dichlorodifluoromethane	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Ethyl Methacrylate	ND(0.0046) J	ND(0.0044) J	NA	ND(0.0046) J	ND(0.0052) J	NA	
Ethylbenzene	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Iodomethane	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Isobutanol	ND(0.18) J	ND(0.18) J	NA	ND(0.18) J	ND(0.21) J	NA	
Methacrylonitrile	ND(0.0046) J	ND(0.0044)	NA	ND(0.0046)	ND(0.0052) J	NA	
Methyl Methacrylate	ND(0.0046) J	ND(0.0044)	NA	ND(0.0046)	ND(0.0052) J	NA	
Methylene Chloride	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Propionitrile	ND(0.0092)	ND(0.0089)	NA	ND(0.0091)	ND(0.010)	NA	
Styrene	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Tetrachloroethene	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Toluene	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
trans-1,2-Dichloroethene	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
trans-1,3-Dichloropropene	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
trans-1,4-Dichloro-2-butene	ND(0.0046) J	ND(0.0044)	NA	ND(0.0046)	ND(0.0052) J	NA	
Trichloroethene	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Trichlorofluoromethane	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
Vinyl Acetate	ND(0.0046) J	ND(0.0044)	NA	ND(0.0046)	ND(0.0052) J	NA	
Vinyl Chloride	ND(0.0092)	ND(0.0089)	NA	ND(0.0091)	ND(0.010)	NA	
Xylenes (total)	ND(0.0046)	ND(0.0044)	NA	ND(0.0046)	ND(0.0052)	NA	
<b>Semivolatile Organics</b>							
1,2,4,5-Tetrachlorobenzene	ND(0.71)	2.0	0.42	NA	ND(15)	ND(0.38)	
1,2,4-Trichlorobenzene	ND(0.71)	0.11 J	0.055 J	NA	ND(15)	ND(0.38)	
1,2-Dichlorobenzene	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)	
1,2-Diphenylhydrazine	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38) J	
1,3,5-Trinitrobenzene	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(0.38) J	
1,3-Dichlorobenzene	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)	

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-1					
	RAA15-D3	RAA15-E4	RAA15-E4	RAA15-E4	RAA15-E5	RAA15-E5
	0-1 03/10/03	1-3 03/07/03	3-6 03/07/03	4-6 03/07/03	0-1 03/10/03	1-3 05/05/04
<b>Semivolatile Organics (continued)</b>						
1,3-Dinitrobenzene	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.76) J
1,4-Dichlorobenzene	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
1,4-Naphthoquinone	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(0.76)
1-Naphthylamine	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.76)
2,3,4,6-Tetrachlorophenol	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
2,4,5-Trichlorophenol	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
2,4,6-Trichlorophenol	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
2,4-Dichlorophenol	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
2,4-Dimethylphenol	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
2,4-Dinitrophenol	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(1.9)
2,4-Dinitrotoluene	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
2,6-Dichlorophenol	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
2,6-Dinitrotoluene	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38) J
2-Acetylaminofluorene	ND(1.4)	ND(0.74)	ND(0.71)	NA	ND(30)	ND(0.76)
2-Chloronaphthalene	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
2-Chlorophenol	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
2-Methylnaphthalene	0.38 J	ND(0.37)	ND(0.36)	NA	0.97 J	ND(0.38)
2-Methylphenol	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
2-Naphthylamine	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.76)
2-Nitroaniline	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(1.9) J
2-Nitrophenol	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.76)
2-Picoline	ND(1.4)	ND(0.74)	ND(0.71)	NA	ND(30)	ND(0.38)
3&4-Methylphenol	ND(1.4)	ND(0.74)	ND(0.71)	NA	ND(30)	ND(0.76)
3,3'-Dichlorobenzidine	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(0.76)
3,3'-Dimethylbenzidine	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(0.38)
3-Methylcholanthrene	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(0.76)
3-Nitroaniline	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(1.9) J
4,6-Dinitro-2-methylphenol	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(0.38)
4-Aminobiphenyl	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(0.76)
4-Bromophenyl-phenylether	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
4-Chloro-3-Methylphenol	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
4-Chloroaniline	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
4-Chlorobenzilate	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.76)
4-Chlorophenyl-phenylether	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
4-Nitroaniline	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(1.9) J
4-Nitrophenol	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(1.9) J
4-Nitroquinoline-1-oxide	ND(7.1)	ND(3.7)	ND(3.6)	NA	ND(150)	ND(0.76) J
4-Phenylenediamine	ND(14)	ND(7.4)	ND(7.1)	NA	ND(300)	ND(0.76)
5-Nitro-o-toluidine	ND(1.4)	ND(0.74)	ND(0.71)	NA	ND(30)	ND(0.76)
7,12-Dimethylbenz(a)anthracene	ND(1.4)	ND(0.74)	ND(0.71)	NA	ND(30)	ND(0.76)
a,a'-Dimethylphenethylamine	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(0.76)
Acenaphthene	ND(0.71)	ND(0.37)	ND(0.36)	NA	7.4 J	ND(0.38)
Acenaphthylene	0.68 J	0.12 J	ND(0.36)	NA	ND(15)	0.13 J
Acetophenone	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
Aniline	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
Anthracene	0.35 J	0.13 J	ND(0.36)	NA	13 J	0.12 J
Aramite	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(0.76)
Benzidine	ND(7.1)	ND(3.7)	ND(3.6)	NA	ND(150)	ND(0.76) J
Benzo(a)anthracene	1.1	1.1	0.071 J	NA	35	0.29 J
Benzo(a)pyrene	1.2	0.97	0.072 J	NA	33	0.20 J
Benzo(b)fluoranthene	1.1	0.92	0.056 J	NA	30	0.19 J
Benzo(g,h,i)perylene	0.52 J	0.71	0.075 J	NA	12 J	0.17 J
Benzo(k)fluoranthene	1.2	0.81	0.070 J	NA	31	0.19 J
Benzyl Alcohol	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.76) J
bis(2-Chloroethoxy)methane	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
bis(2-Chloroethyl)ether	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38) J
bis(2-Chloroisopropyl)ether	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
bis(2-Ethylhexyl)phthalate	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
Butylbenzylphthalate	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
Chrysene	1.3	1.1	0.082 J	NA	38	0.36 J
Diallylate	ND(1.4)	ND(0.74)	ND(0.71)	NA	ND(30)	ND(0.76)
Dibenzo(a,h)anthracene	0.16 J	0.30 J	ND(0.36)	NA	4.1 J	ND(0.38)

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-1					
	RAA15-D3	RAA15-E4	RAA15-E4	RAA15-E4	RAA15-E5	RAA15-E5
	0-1 03/10/03	1-3 03/07/03	3-6 03/07/03	4-6 03/07/03	0-1 03/10/03	1-3 05/05/04
<b>Semivolatile Organics (continued)</b>						
Dibenzofuran	ND(0.71)	ND(0.37)	ND(0.36)	NA	3.2 J	ND(0.38)
Diethylphthalate	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
Dimethylphthalate	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
Di-n-Butylphthalate	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
Di-n-Octylphthalate	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
Diphenylamine	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
Ethyl Methanesulfonate	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
Fluoranthene	1.7	1.5	0.11 J	NA	92	0.67
Fluorene	0.077 J	ND(0.37)	ND(0.36)	NA	5.6 J	ND(0.38)
Hexachlorobenzene	ND(0.71)	0.052 J	ND(0.36)	NA	ND(15)	ND(0.38)
Hexachlorobutadiene	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
Hexachlorocyclopentadiene	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(0.38)
Hexachloroethane	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
Hexachlorophene	ND(14)	ND(7.5) J	ND(7.2) J	NA	ND(310)	ND(0.76) J
Hexachloropropene	ND(7.1)	ND(3.7)	ND(3.6)	NA	ND(150)	ND(0.38)
Indeno(1,2,3-cd)pyrene	0.57 J	0.81	0.070 J	NA	15	0.14 J
Isodrin	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
Isophorone	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
Isosafrole	ND(1.4)	ND(0.74)	ND(0.71)	NA	ND(30)	ND(0.76)
Methapyrilene	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(0.76)
Methyl Methanesulfonate	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
Naphthalene	0.55 J	0.030 J	ND(0.36)	NA	2.6 J	ND(0.38)
Nitrobenzene	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
N-Nitrosodiethylamine	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
N-Nitrosodimethylamine	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
N-Nitroso-di-n-butylamine	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.76)
N-Nitroso-di-n-propylamine	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
N-Nitrosodiphenylamine	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
N-Nitrosomethylethylamine	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.76)
N-Nitrosomorpholine	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
N-Nitrosopiperidine	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
N-Nitrosopyrrolidine	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.76)
o,o,o-Triethylphosphorothioate	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(0.38)
o-Toluidine	ND(1.4)	ND(0.74)	ND(0.71)	NA	ND(30)	ND(0.38)
p-Dimethylaminoazobenzene	ND(1.4)	ND(0.74)	ND(0.71)	NA	ND(30)	ND(0.76)
Pentachlorobenzene	ND(0.71)	0.12 J	ND(0.36)	NA	ND(15)	ND(0.38)
Pentachloroethane	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(0.38)
Pentachloronitrobenzene	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(0.76) J
Pentachlorophenol	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(1.9)
Phenacetin	ND(1.4)	ND(0.74)	ND(0.71)	NA	ND(30)	ND(0.76)
Phenanthrene	1.1	0.35 J	0.073 J	NA	62	0.35 J
Phenol	ND(0.71)	ND(0.37)	ND(0.36)	NA	ND(15)	ND(0.38)
Pronamide	ND(1.4)	ND(0.74)	ND(0.71)	NA	ND(30)	ND(0.38)
Pyrene	1.6	1.4	0.13 J	NA	59	0.64
Pyridine	ND(1.4)	ND(0.74)	ND(0.71)	NA	ND(30)	ND(0.38)
Safrole	ND(1.4)	ND(0.74)	ND(0.71)	NA	ND(30)	ND(0.38)
Thionazin	ND(3.5)	ND(1.8)	ND(1.7)	NA	ND(74)	ND(0.38)
<b>Furans</b>						
2,3,7,8-TCDF	0.000066	ND(0.00028) X	ND(0.00035)X	NA	ND(0.00010) X [0.000053 J]	NA
TCDFs (total)	ND(0.000054) X	ND(0.0021) XQJ	ND(0.00025) XQJ	NA	ND(0.00010) X [ND(0.000049) X]	NA
1,2,3,7,8-PeCDF	0.000038 J	0.00027	0.000028	NA	0.000049 J [ND(0.000029) X]	NA
2,3,4,7,8-PeCDF	0.000040 J	0.00027	0.000025	NA	0.000061 J [0.000049 J]	NA
PeCDFs (total)	ND(0.00010) X	ND(0.0025) XQJ	ND(0.00033) XQJ	NA	ND(0.00027) XQJ [ND(0.00013) X]	NA
1,2,3,4,7,8-HxCDF	ND(0.00019) X	0.00065	0.000066 J	NA	ND(0.00033) X [0.000068 J]	NA
1,2,3,6,7,8-HxCDF	0.000035 J	ND(0.00023) X	ND(0.00031) X	NA	0.000058 J [ND(0.000036) X]	NA
1,2,3,7,8,9-HxCDF	ND(0.0000031) X	0.000019	0.000020 J	NA	ND(0.0000096) [ND(0.0000072)]	NA
2,3,4,6,7,8-HxCDF	0.000019 J	0.000086	0.000079	NA	0.000045 J [0.000035 J]	NA
HxCDFs (total)	ND(0.000075) XQJ	ND(0.0017) XQJ	ND(0.00023) XQJ	NA	ND(0.00021) X [ND(0.000086) X]	NA
1,2,3,4,6,7,8-HpCDF	0.000083	0.00040	0.000046	NA	ND(0.00021) X [0.000012 J]	NA
1,2,3,4,7,8,9-HpCDF	0.000023 J	0.00014	0.000015	NA	0.000053 J [0.000028 J]	NA
HpCDFs (total)	ND(0.000019) X	ND(0.00070) X	ND(0.00081) X	NA	ND(0.000054) X [0.000029 J]	NA
OCDF	0.000079 J	0.00035	0.000042	NA	0.000021 J [0.000012 J]	NA

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parameter	K10-11-1					
	RAA15-D3	RAA15-E4	RAA15-E4	RAA15-E4	RAA15-E5	RAA15-E5
	0-1 03/10/03	1-3 03/07/03	3-6 03/07/03	4-6 03/07/03	0-1 03/10/03	1-3 05/05/04
<b>Dioxins</b>						
2,3,7,8-TCDD	ND(0.0000039)	ND(0.000015) X	ND(0.0000039) X	NA	ND(0.000020) [ND(0.000023)]	NA
TCDDs (total)	ND(0.000013) X	ND(0.000049) XQJ	ND(0.000039) X	NA	ND(0.000020) [ND(0.000023)]	NA
1,2,3,7,8-PeCDD	ND(0.0000056) X	ND(0.000049) X	ND(0.000038) X	NA	ND(0.000012) [ND(0.0000097)]	NA
PeCDDs (total)	ND(0.000027) X	ND(0.00024) XQJ	ND(0.000014) X	NA	ND(0.000029) X [ND(0.0000097)]	NA
1,2,3,4,7,8-HxCDD	0.0000031 J	0.000043 J	0.0000047 J	NA	ND(0.000012) [ND(0.000010)]	NA
1,2,3,6,7,8-HxCDD	0.0000067 J	0.0000072	ND(0.0000072) X	NA	ND(0.000024) X [ND(0.000013) X]	NA
1,2,3,7,8,9-HxCDD	ND(0.0000079) XQJ	0.000046 JQ	ND(0.0000044) XQJ	NA	0.000032 J [ND(0.000010)]	NA
HxCDDs (total)	ND(0.000071) XQJ	ND(0.00020) XQJ	ND(0.000023) XQJ	NA	ND(0.000025) X [ND(0.000076) X]	NA
1,2,3,4,6,7,8-HpCDD	0.0000045 QJ	0.000039 QJ	0.000061 QJ	NA	0.000023 J [0.000015 J]	NA
HpCDDs (total)	0.000010 QJ	0.000080 QJ	0.000012 QJ	NA	0.000052 J [0.000031 J]	NA
OCDD	0.000031	0.000099 QJ	0.000037 QJ	NA	0.00014 [0.000091 J]	NA
Total TEQs (WHO TEFs)	0.000051	0.00028	0.000028	NA	0.000090 [0.000064]	NA
<b>Inorganics</b>						
Antimony	0.510 B	0.470 B	ND(6.50)	NA	0.500 B	NA
Arsenic	7.90	3.90	3.80	NA	3.30	NA
Barium	37.5 J	39.0	28.9	NA	72.1 J	NA
Beryllium	0.380 B	ND(0.440)	ND(0.430)	NA	0.370 B	NA
Cadmium	ND(0.540)	ND(0.260)	ND(0.160)	NA	0.310 B	NA
Chromium	10.6	7.10	8.80	NA	7.60	NA
Cobalt	8.70	9.80	6.30	NA	5.00 B	NA
Copper	42.5 J	93.0 J	70.3 J	NA	41.8 J	NA
Cyanide	ND(0.540)	ND(0.560)	0.210 B	NA	0.210 B	NA
Lead	51.9 J	131 J	86.8 J	NA	130 J	NA
Mercury	0.790 J	1.60	0.760	NA	1.70 J	NA
Nickel	17.4	14.3 J	12.1 J	NA	10.7	NA
Selenium	ND(0.540)	ND(0.560)	ND(0.540)	NA	ND(0.580)	NA
Silver	ND(1.10)	0.100 B	ND(1.10)	NA	0.0990 B	NA
Sulfide	ND(10.8)	ND(11.2)	ND(10.8)	NA	ND(11.5)	NA
Thallium	ND(1.10)	ND(1.10)	ND(1.10)	NA	ND(1.20)	NA
Tin	ND(5.10) J	ND(8.40)	ND(6.80)	NA	ND(5.20)	NA
Vanadium	13.1	8.70	7.90	NA	15.1	NA
Zinc	62.9	124	92.0	NA	75.3	NA



**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-11-1						
	Sample ID: Sample Depth(Feet): Date Collected:	RAA15-E5NE 0-1 05/05/04	RAA15-E5NW 0-1 05/05/04	RAA15-E5SE 0-1 05/05/04	RAA15-E5SW 0-1 05/05/04	RAA15-E6 1-3 03/06/03	RAA15-E6 6-8 03/06/03	RAA15-E6 6-10 03/06/03
<b>Volatile Organics</b>								
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
1,1,1-Trichloroethane	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
1,1,2-Trichloroethane	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
1,1-Dichloroethane	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
1,1-Dichloroethene	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
1,2,3-Trichloropropane	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
1,2-Dibromoethane	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
1,2-Dichloroethane	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
1,2-Dichloropropane	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
1,4-Dioxane	NA	NA	NA	NA	ND(1.1) J	ND(1.2) J	NA	
2-Butanone	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
2-Chloro-1,3-butadiene	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
2-Chloroethylvinylether	NA	NA	NA	NA	ND(0.011) J	ND(0.012) J	NA	
2-Hexanone	NA	NA	NA	NA	ND(0.023)	ND(0.023)	NA	
3-Chloropropene	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
4-Methyl-2-pentanone	NA	NA	NA	NA	ND(0.023)	ND(0.023)	NA	
Acetone	NA	NA	NA	NA	ND(0.023) J	ND(0.023) J	NA	
Acetonitrile	NA	NA	NA	NA	ND(0.11)	ND(0.12)	NA	
Acrolein	NA	NA	NA	NA	ND(0.11) J	ND(0.12) J	NA	
Acrylonitrile	NA	NA	NA	NA	ND(0.11)	ND(0.12)	NA	
Benzene	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Bromodichloromethane	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Bromoform	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Bromomethane	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Carbon Disulfide	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Carbon Tetrachloride	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Chlorobenzene	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Chloroethane	NA	NA	NA	NA	ND(0.011)	ND(0.012)	NA	
Chloroform	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Chloromethane	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
cis-1,3-Dichloropropene	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Dibromochloromethane	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Dibromomethane	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Dichlorodifluoromethane	NA	NA	NA	NA	ND(0.0057) J	ND(0.0058) J	NA	
Ethyl Methacrylate	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Ethylbenzene	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Iodomethane	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Isobutanol	NA	NA	NA	NA	ND(0.23) J	ND(0.23) J	NA	
Methacrylonitrile	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Methyl Methacrylate	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Methylene Chloride	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Propionitrile	NA	NA	NA	NA	ND(0.011)	ND(0.012)	NA	
Styrene	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Tetrachloroethene	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Toluene	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
trans-1,2-Dichloroethene	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
trans-1,3-Dichloropropene	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
trans-1,4-Dichloro-2-butene	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Trichloroethene	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Trichlorofluoromethane	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Vinyl Acetate	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
Vinyl Chloride	NA	NA	NA	NA	ND(0.011)	ND(0.012)	NA	
Xylenes (total)	NA	NA	NA	NA	ND(0.0057)	ND(0.0058)	NA	
<b>Semivolatile Organics</b>								
1,2,4,5-Tetrachlorobenzene	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)	
1,2,4-Trichlorobenzene	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)	
1,2-Dichlorobenzene	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)	
1,2-Diphenylhydrazine	ND(0.38) J	ND(0.39) J	ND(0.39) J	ND(0.36) J	ND(0.78)	NA	ND(4.6)	
1,3,5-Trinitrobenzene	ND(0.38) J	ND(0.39) J	ND(0.39) J	ND(0.36) J	ND(3.8)	NA	ND(22)	
1,3-Dichlorobenzene	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)	

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-1						
	RAA15-E5NE 0-1 05/05/04	RAA15-E5NW 0-1 05/05/04	RAA15-E5SE 0-1 05/05/04	RAA15-E5SW 0-1 05/05/04	RAA15-E6 1-3 03/06/03	RAA15-E6 6-8 03/06/03	RAA15-E6 6-10 03/06/03
<b>Semivolatile Organics (continued)</b>							
1,3-Dinitrobenzene	ND(0.77) J	ND(0.78) J	ND(0.79) J	ND(0.72) J	ND(0.78)	NA	ND(4.6)
1,4-Dichlorobenzene	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
1,4-Naphthoquinone	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(3.8)	NA	ND(22)
1-Naphthylamine	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(0.78)	NA	ND(4.6)
2,3,4,6-Tetrachlorophenol	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
2,4,5-Trichlorophenol	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
2,4,6-Trichlorophenol	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
2,4-Dichlorophenol	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
2,4-Dimethylphenol	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
2,4-Dinitrophenol	ND(2.0)	ND(2.0)	ND(2.0)	ND(1.8)	ND(3.8)	NA	ND(22)
2,4-Dinitrotoluene	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
2,6-Dichlorophenol	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
2,6-Dinitrotoluene	ND(0.38) J	ND(0.39) J	ND(0.39) J	ND(0.36) J	ND(0.78)	NA	ND(4.6)
2-Acetylaminofluorene	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(1.6)	NA	ND(9.1)
2-Chloronaphthalene	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
2-Chlorophenol	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
2-Methylnaphthalene	0.082 J	0.11 J	0.29 J	ND(0.36)	0.16 J	NA	ND(4.6)
2-Methylphenol	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
2-Naphthylamine	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(0.78)	NA	ND(4.6)
2-Nitroaniline	ND(2.0) J	ND(2.0) J	ND(2.0) J	ND(1.8) J	ND(3.8)	NA	ND(22)
2-Nitrophenol	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(0.78)	NA	ND(4.6)
2-Picoline	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(1.6)	NA	ND(9.1)
3&4-Methylphenol	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(1.6)	NA	ND(9.1)
3,3'-Dichlorobenzidine	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(3.8)	NA	ND(22)
3,3'-Dimethylbenzidine	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(3.8)	NA	ND(22)
3-Methylcholanthrene	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(3.8)	NA	ND(22)
3-Nitroaniline	ND(2.0) J	ND(2.0) J	ND(2.0) J	ND(1.8) J	ND(3.8)	NA	ND(22)
4,6-Dinitro-2-methylphenol	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(3.8)	NA	ND(22)
4-Aminobiphenyl	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(3.8)	NA	ND(22)
4-Bromophenyl-phenylether	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
4-Chloro-3-Methylphenol	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
4-Chloroaniline	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
4-Chlorobenzilate	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(0.78)	NA	ND(4.6)
4-Chlorophenyl-phenylether	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
4-Nitroaniline	ND(2.0) J	ND(2.0) J	ND(2.0) J	ND(1.8) J	ND(3.8)	NA	ND(22)
4-Nitrophenol	ND(2.0) J	ND(2.0) J	ND(2.0) J	ND(1.8) J	ND(3.8)	NA	ND(22)
4-Nitroquinoline-1-oxide	ND(0.77) J	ND(0.78) J	ND(0.79) J	ND(0.72) J	ND(7.8)	NA	ND(46)
4-Phenylenediamine	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(16)	NA	ND(91)
5-Nitro-o-toluidine	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(1.6)	NA	ND(9.1)
7,12-Dimethylbenz(a)anthracene	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(1.6)	NA	ND(9.1)
a,a'-Dimethylphenethylamine	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(3.8)	NA	ND(22)
Acenaphthene	0.093 J	0.62	1.9	0.088 J	0.15 J	NA	ND(4.6)
Acenaphthylene	0.21 J	ND(0.39)	0.096 J	0.083 J	0.30 J	NA	ND(4.6)
Acetophenone	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
Aniline	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
Anthracene	0.25 J	1.3	2.4	0.14 J	0.64 J	NA	ND(4.6)
Aramite	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(3.8)	NA	ND(22)
Benzidine	ND(0.77) J	ND(0.78) J	ND(0.79) J	ND(0.72) J	ND(7.8)	NA	ND(46)
Benzo(a)anthracene	0.58	3.2	4.2	0.40	2.4	NA	ND(4.6)
Benzo(a)pyrene	0.39	1.7	2.2	0.25 J	2.3	NA	ND(4.6)
Benzo(b)fluoranthene	0.33 J	1.6	2.0	0.24 J	2.0	NA	ND(4.6)
Benzo(g,h,i)perylene	0.30 J	1.0	1.2	0.18 J	1.1	NA	ND(4.6)
Benzo(k)fluoranthene	0.36 J	1.6	2.1	0.25 J	2.0	NA	ND(4.6)
Benzyl Alcohol	ND(0.77) J	ND(0.78) J	ND(0.79) J	ND(0.72) J	ND(0.78)	NA	ND(4.6)
bis(2-Chloroethoxy)methane	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
bis(2-Chloroethyl)ether	ND(0.38) J	ND(0.39) J	ND(0.39) J	ND(0.36) J	ND(0.78)	NA	ND(4.6)
bis(2-Chloroisopropyl)ether	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
bis(2-Ethylhexyl)phthalate	ND(0.38)	ND(0.38)	ND(0.39)	ND(0.35)	ND(0.78)	NA	ND(4.6)
Butylbenzylphthalate	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
Chrysene	0.64	3.3	4.2	0.44	2.5	NA	ND(4.6)
Diallate	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(1.6)	NA	ND(9.1)
Dibenzo(a,h)anthracene	0.11 J	0.23 J	0.46	ND(0.36)	0.44 J	NA	ND(4.6)

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-1						
	RAA15-E5NE 0-1 05/05/04	RAA15-E5NW 0-1 05/05/04	RAA15-E5SE 0-1 05/05/04	RAA15-E5SW 0-1 05/05/04	RAA15-E6 1-3 03/06/03	RAA15-E6 6-8 03/06/03	RAA15-E6 6-10 03/06/03
<b>Semivolatile Organics (continued)</b>							
Dibenzofuran	ND(0.38)	0.22 J	0.83	ND(0.36)	0.18 J	NA	ND(4.6)
Diethylphthalate	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
Dimethylphthalate	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
Di-n-Butylphthalate	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
Di-n-Octylphthalate	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
Diphenylamine	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
Ethyl Methanesulfonate	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
Fluoranthene	1.2	9.5 E	15	0.99	4.6	NA	ND(4.6)
Fluorene	ND(0.38)	0.45	1.3	ND(0.36)	0.21 J	NA	ND(4.6)
Hexachlorobenzene	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
Hexachlorobutadiene	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
Hexachlorocyclopentadiene	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(3.8)	NA	ND(22)
Hexachloroethane	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
Hexachlorophene	ND(0.77) J	ND(0.78) J	ND(0.79) J	ND(0.72) J	ND(16) J	NA	ND(93) J
Hexachloropropene	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(7.8)	NA	ND(46)
Indeno(1,2,3-cd)pyrene	0.24 J	0.91	1.1	0.16 J	1.3	NA	ND(4.6)
Isodrin	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
Isophorone	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	0.19 J	NA	1.7 J
Isosafrole	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(1.6)	NA	ND(9.1)
Methapyrilene	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(3.8)	NA	ND(22)
Methyl Methanesulfonate	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
Naphthalene	0.16 J	0.24 J	1.0	ND(0.36)	0.21 J	NA	ND(4.6)
Nitrobenzene	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
N-Nitrosodiethylamine	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
N-Nitrosodimethylamine	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
N-Nitroso-di-n-butylamine	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(0.78)	NA	ND(4.6)
N-Nitroso-di-n-propylamine	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
N-Nitrosodiphenylamine	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
N-Nitrosomethylethylamine	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(0.78)	NA	ND(4.6)
N-Nitrosomorpholine	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
N-Nitrosopiperidine	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
N-Nitrosopyrrolidine	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(0.78)	NA	ND(4.6)
o,o,o-Triethylphosphorothioate	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(3.8)	NA	ND(22)
o-Toluidine	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(1.6)	NA	ND(9.1)
p-Dimethylaminoazobenzene	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(1.6)	NA	ND(9.1)
Pentachlorobenzene	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
Pentachloroethane	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(3.8)	NA	ND(22)
Pentachloronitrobenzene	ND(0.77) J	ND(0.78) J	ND(0.79) J	ND(0.72) J	ND(3.8)	NA	ND(22)
Pentachlorophenol	ND(2.0)	ND(2.0)	ND(2.0)	ND(1.8)	ND(3.8)	NA	ND(22)
Phenacetin	ND(0.77)	ND(0.78)	ND(0.79)	ND(0.72)	ND(1.6)	NA	ND(9.1)
Phenanthrene	0.70	5.6	14	0.66	2.4	NA	ND(4.6)
Phenol	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(0.78)	NA	ND(4.6)
Pronamide	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(1.6)	NA	ND(9.1)
Pyrene	1.2	7.3	12	0.82	3.3	NA	ND(4.6)
Pyridine	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(1.6)	NA	ND(9.1)
Safrole	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(1.6)	NA	ND(9.1)
Thionazin	ND(0.38)	ND(0.39)	ND(0.39)	ND(0.36)	ND(3.8)	NA	ND(22)
<b>Furans</b>							
2,3,7,8-TCDF	NA	NA	NA	NA	ND(0.000014) X	NA	ND(0.000035) X
TCDFs (total)	NA	NA	NA	NA	ND(0.00026) X	NA	ND(0.000057) X
1,2,3,7,8-PeCDF	NA	NA	NA	NA	0.0000038 J	NA	0.00000074 J
2,3,4,7,8-PeCDF	NA	NA	NA	NA	0.0000057 J	NA	ND(0.00000075) X
PeCDFs (total)	NA	NA	NA	NA	ND(0.00035) X	NA	ND(0.000045) X
1,2,3,4,7,8-HxCDF	NA	NA	NA	NA	ND(0.000063) X	NA	0.00000099 J
1,2,3,6,7,8-HxCDF	NA	NA	NA	NA	ND(0.000049) X	NA	ND(0.0000046) X
1,2,3,7,8,9-HxCDF	NA	NA	NA	NA	ND(0.0000031) X	NA	ND(0.00000090)
2,3,4,6,7,8-HxCDF	NA	NA	NA	NA	0.0000034 J	NA	0.00000036 J
HxCDFs (total)	NA	NA	NA	NA	ND(0.00023) X	NA	ND(0.000023) X
1,2,3,4,6,7,8-HpCDF	NA	NA	NA	NA	0.000029	NA	0.0000033 J
1,2,3,4,7,8,9-HpCDF	NA	NA	NA	NA	0.0000030 J	NA	0.00000031 J
HpCDFs (total)	NA	NA	NA	NA	ND(0.000080) X	NA	0.0000068 J
OCDF	NA	NA	NA	NA	0.000044	NA	0.0000034 J

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	K10-11-1						
	RAA15-E5NE	RAA15-E5NW	RAA15-E5SE	RAA15-E5SW	RAA15-E6	RAA15-E6	RAA15-E6
Sample ID:	0-1	0-1	0-1	0-1	1-3	6-8	6-10
Sample Depth(Feet):							
Date Collected:	05/05/04	05/05/04	05/05/04	05/05/04	03/06/03	03/06/03	03/06/03
<b>Dioxins</b>							
2,3,7,8-TCDD	NA	NA	NA	NA	ND(0.00000030) X	NA	ND(0.00000022)
TCDDs (total)	NA	NA	NA	NA	ND(0.0000018) X	NA	ND(0.00000022)
1,2,3,7,8-PeCDD	NA	NA	NA	NA	0.00000077 J	NA	ND(0.00000012)
PeCDDs (total)	NA	NA	NA	NA	ND(0.0000065) X	NA	ND(0.00000069) X
1,2,3,4,7,8-HxCDD	NA	NA	NA	NA	ND(0.00000049) X	NA	ND(0.00000012)
1,2,3,6,7,8-HxCDD	NA	NA	NA	NA	0.0000023 J	NA	0.00000029 J
1,2,3,7,8,9-HxCDD	NA	NA	NA	NA	0.0000015 JQ	NA	ND(0.00000012)
HxCDDs (total)	NA	NA	NA	NA	ND(0.000019) XQJ	NA	ND(0.0000023) X
1,2,3,4,6,7,8-HpCDD	NA	NA	NA	NA	0.000029	NA	0.0000035 J
HpCDDs (total)	NA	NA	NA	NA	0.000094	NA	0.0000066 J
OCDD	NA	NA	NA	NA	0.00038	NA	0.000034
Total TEQs (WHO TEFs)	NA	NA	NA	NA	0.0000088	NA	0.0000011
<b>Inorganics</b>							
Antimony	NA	NA	NA	NA	ND(7.10)	NA	ND(8.30)
Arsenic	NA	NA	NA	NA	1.40	NA	3.40
Barium	NA	NA	NA	NA	28.6	NA	78.3
Beryllium	NA	NA	NA	NA	0.380 B	NA	0.500 B
Cadmium	NA	NA	NA	NA	ND(0.590)	NA	ND(0.690)
Chromium	NA	NA	NA	NA	7.40	NA	15.5
Cobalt	NA	NA	NA	NA	5.80 B	NA	6.30 B
Copper	NA	NA	NA	NA	7.90	NA	15.6
Cyanide	NA	NA	NA	NA	0.290 B	NA	0.260 B
Lead	NA	NA	NA	NA	3.50	NA	18.0
Mercury	NA	NA	NA	NA	0.140	NA	0.150
Nickel	NA	NA	NA	NA	9.70	NA	11.6
Selenium	NA	NA	NA	NA	ND(0.590)	NA	ND(0.690)
Silver	NA	NA	NA	NA	ND(1.20)	NA	ND(1.40)
Sulfide	NA	NA	NA	NA	ND(11.9)	NA	ND(13.8)
Thallium	NA	NA	NA	NA	ND(1.20)	NA	1.10 B
Tin	NA	NA	NA	NA	ND(3.40)	NA	ND(4.80)
Vanadium	NA	NA	NA	NA	8.80	NA	15.2
Zinc	NA	NA	NA	NA	43.5	NA	54.9

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-2					
	RAA15-A9 0-1 02/24/03	RAA15-A15 3-6 02/21/03	RAA15-A15 4-6 02/21/03	RAA15-B7 0-1 02/25/03	RAA15-B11 0-1 02/25/03	RAA15-B15 0-1 02/25/03
<b>Volatile Organics</b>						
1,1,1,2-Tetrachloroethane	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
1,1,1-Trichloroethane	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
1,1,2,2-Tetrachloroethane	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
1,1,2-Trichloroethane	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
1,1-Dichloroethane	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
1,1-Dichloroethene	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
1,2,3-Trichloropropane	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
1,2-Dibromo-3-chloropropane	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
1,2-Dibromoethane	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
1,2-Dichloroethane	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
1,2-Dichloropropane	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
1,4-Dioxane	ND(1.0) J	NA	ND(0.99) J	ND(0.96) J	ND(0.86) J	ND(0.98) J [ND(1.0) J]
2-Butanone	ND(0.0052) J	NA	ND(0.0050)	ND(0.0048) J	ND(0.0043) J	ND(0.0049) J [ND(0.0050) J]
2-Chloro-1,3-butadiene	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
2-Chloroethylvinylether	ND(0.010) J	NA	ND(0.0099) J	ND(0.0096) J	ND(0.0086) J	ND(0.0098) J [ND(0.010) J]
2-Hexanone	ND(0.021) J	NA	ND(0.020)	ND(0.019) J	ND(0.017) J	ND(0.020) J [ND(0.020) J]
3-Chloropropene	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
4-Methyl-2-pentanone	ND(0.021)	NA	ND(0.020)	ND(0.019)	ND(0.017)	ND(0.020) J [ND(0.020) J]
Acetone	ND(0.021) J	NA	ND(0.020)	ND(0.019) J	ND(0.017) J	ND(0.020) J [ND(0.020) J]
Acetonitrile	ND(0.10) J	NA	ND(0.099) J	ND(0.096)	ND(0.086)	ND(0.098) [ND(0.10)]
Acrolein	ND(0.10) J	NA	ND(0.099) J	ND(0.096) J	ND(0.086) J	ND(0.098) J [ND(0.10) J]
Acrylonitrile	ND(0.10)	NA	ND(0.099)	ND(0.096)	ND(0.086)	ND(0.098) [ND(0.10)]
Benzene	ND(0.0052)	NA	0.00050 J	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Bromodichloromethane	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Bromoform	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Bromomethane	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Carbon Disulfide	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Carbon Tetrachloride	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Chlorobenzene	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Chloroethane	ND(0.010)	NA	ND(0.0099)	ND(0.0096)	ND(0.0086)	ND(0.0098) [ND(0.010)]
Chloroform	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Chloromethane	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
cis-1,3-Dichloropropene	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Dibromochloromethane	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Dibromomethane	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Dichlorodifluoromethane	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Ethyl Methacrylate	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Ethylbenzene	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Iodomethane	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Isobutanol	ND(0.21) J	NA	ND(0.20) J	ND(0.19) J	ND(0.17) J	ND(0.20) J [ND(0.20) J]
Methacrylonitrile	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Methyl Methacrylate	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Methylene Chloride	0.00083 J	NA	ND(0.0050)	ND(0.0048)	0.0024 J	ND(0.0049) [ND(0.0050)]
Propionitrile	ND(0.010)	NA	ND(0.0099) J	ND(0.0096)	ND(0.0086)	ND(0.0098) [ND(0.010)]
Styrene	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Tetrachloroethene	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Toluene	0.00057 J	NA	ND(0.0050)	ND(0.0048)	0.0015 J	ND(0.0049) [ND(0.0050)]
trans-1,2-Dichloroethene	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
trans-1,3-Dichloropropene	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
trans-1,4-Dichloro-2-butene	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Trichloroethene	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Trichlorofluoromethane	ND(0.0052)	NA	ND(0.0050) J	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Vinyl Acetate	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
Vinyl Chloride	ND(0.010)	NA	ND(0.0099)	ND(0.0096)	ND(0.0086)	ND(0.0098) [ND(0.010)]
Xylenes (total)	ND(0.0052)	NA	ND(0.0050)	ND(0.0048)	ND(0.0043)	ND(0.0049) [ND(0.0050)]
<b>Semivolatile Organics</b>						
1,2,4,5-Tetrachlorobenzene	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
1,2,4-Trichlorobenzene	ND(0.37)	ND(1.5)	NA	ND(0.71)	1.8	0.29 J [0.27 J]
1,2-Dichlorobenzene	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
1,2-Diphenylhydrazine	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
1,3,5-Trinitrobenzene	ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]
1,3-Dichlorobenzene	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parameter	Parcel ID:	K10-11-2					
	Sample ID: Sample Depth(Feet): Date Collected:	RAA15-A9 0-1 02/24/03	RAA15-A15 3-6 02/21/03	RAA15-A15 4-6 02/21/03	RAA15-B7 0-1 02/25/03	RAA15-B11 0-1 02/25/03	RAA15-B15 0-1 02/25/03
<b>Semivolatile Organics (continued)</b>							
1,3-Dinitrobenzene		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
1,4-Dichlorobenzene		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
1,4-Naphthoquinone		ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]
1-Naphthylamine		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
2,3,4,6-Tetrachlorophenol		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
2,4,5-Trichlorophenol		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
2,4,6-Trichlorophenol		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
2,4-Dichlorophenol		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
2,4-Dimethylphenol		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
2,4-Dinitrophenol		ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]
2,4-Dinitrotoluene		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
2,6-Dichlorophenol		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
2,6-Dinitrotoluene		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
2-Acetylaminofluorene		ND(0.74)	ND(2.9)	NA	ND(1.4)	ND(2.9)	ND(5.7) [ND(5.9)]
2-Chloronaphthalene		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
2-Chlorophenol		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
2-Methylnaphthalene		ND(0.37)	1.6	NA	ND(0.71)	0.15 J	ND(2.9) [ND(2.9)]
2-Methylphenol		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
2-Naphthylamine		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
2-Nitroaniline		ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]
2-Nitrophenol		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
2-Picoline		ND(0.74)	ND(2.9)	NA	ND(1.4)	ND(2.9)	ND(5.7) [ND(5.9)]
3&4-Methylphenol		ND(0.74)	ND(2.9)	NA	ND(1.4)	ND(2.9)	ND(5.7) [ND(5.9)]
3,3'-Dichlorobenzidine		ND(1.8)	ND(7.1)	NA	ND(3.5)	0.95 J	ND(14) [ND(14)]
3,3'-Dimethylbenzidine		ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]
3-Methylcholanthrene		ND(1.8)	ND(7.1)	NA	ND(3.5)	0.29 J	ND(14) [ND(14)]
3-Nitroaniline		ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]
4,6-Dinitro-2-methylphenol		ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]
4-Aminobiphenyl		ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]
4-Bromophenyl-phenylether		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
4-Chloro-3-Methylphenol		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
4-Chloroaniline		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
4-Chlorobenzilate		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
4-Chlorophenyl-phenylether		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
4-Nitroaniline		ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]
4-Nitrophenol		ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]
4-Nitroquinoline-1-oxide		ND(3.7)	ND(15)	NA	ND(7.1)	ND(14)	ND(29) [ND(29)]
4-Phenylenediamine		ND(7.4)	ND(29)	NA	ND(14)	ND(29)	ND(57) [ND(59)]
5-Nitro-o-toluidine		ND(0.74)	ND(2.9)	NA	ND(1.4)	ND(2.9)	ND(5.7) [ND(5.9)]
7,12-Dimethylbenz(a)anthracene		ND(0.74)	ND(2.9)	NA	ND(1.4)	ND(2.9)	ND(5.7) [ND(5.9)]
a,a'-Dimethylphenethylamine		ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]
Acenaphthene		ND(0.37)	ND(1.5)	NA	ND(0.71)	1.3 J	ND(2.9) [ND(2.9)]
Acenaphthylene		ND(0.37)	2.6	NA	ND(0.71)	0.13 J	ND(2.9) [ND(2.9)]
Acetophenone		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
Aniline		ND(0.37)	ND(1.5)	NA	ND(0.71)	0.18 J	ND(2.9) [ND(2.9)]
Anthracene		ND(0.37)	0.97 J	NA	ND(0.71)	4.1	ND(2.9) [ND(2.9)]
Aramite		ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]
Benzidine		ND(3.7)	ND(15)	NA	ND(7.1)	ND(14)	ND(29) [ND(29)]
Benzo(a)anthracene		0.053 J	1.8	NA	ND(0.71)	9.7	ND(2.9) [ND(2.9)]
Benzo(a)pyrene		0.054 J	2.9	NA	ND(0.71)	9.6	ND(2.9) [ND(2.9)]
Benzo(b)fluoranthene		0.055 J	2.0	NA	ND(0.71)	11	ND(2.9) [ND(2.9)]
Benzo(g,h,i)perylene		ND(0.37)	1.8	NA	ND(0.71)	3.5	ND(2.9) [ND(2.9)]
Benzo(k)fluoranthene		ND(0.37)	1.9	NA	ND(0.71)	5.2	ND(2.9) [ND(2.9)]
Benzyl Alcohol		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
bis(2-Chloroethoxy)methane		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
bis(2-Chloroethyl)ether		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
bis(2-Chloroisopropyl)ether		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
bis(2-Ethylhexyl)phthalate		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
Butylbenzylphthalate		ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]
Chrysene		0.061 J	2.2	NA	ND(0.71)	10	ND(2.9) [ND(2.9)]
Diallate		ND(0.74)	ND(2.9)	NA	ND(1.4)	ND(2.9)	ND(5.7) [ND(5.9)]
Dibenzo(a,h)anthracene		ND(0.37)	0.49 J	NA	ND(0.71)	1.6	ND(2.9) [ND(2.9)]

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-11-2					RAA15-B15 0-1 02/25/03
	Sample ID: Sample Depth(Feet): Date Collected:	RAA15-A9 0-1 02/24/03	RAA15-A15 3-6 02/21/03	RAA15-A15 4-6 02/21/03	RAA15-B7 0-1 02/25/03	RAA15-B11 0-1 02/25/03	
<b>Semivolatile Organics (continued)</b>							
Dibenzofuran	ND(0.37)	0.16 J	NA	ND(0.71)	0.70 J	ND(2.9) [ND(2.9)]	
Diethylphthalate	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
Dimethylphthalate	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
Di-n-Butylphthalate	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
Di-n-Octylphthalate	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
Diphenylamine	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
Ethyl Methanesulfonate	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
Fluoranthene	0.13 J	2.4	NA	ND(0.71)	19	ND(2.9) [ND(2.9)]	
Fluorene	ND(0.37)	0.33 J	NA	ND(0.71)	1.4	ND(2.9) [ND(2.9)]	
Hexachlorobenzene	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
Hexachlorobutadiene	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
Hexachlorocyclopentadiene	ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]	
Hexachloroethane	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
Hexachlorophene	ND(7.5) J	ND(30) J	NA	ND(14) J	ND(29) J	ND(58) J [ND(59) J]	
Hexachloropropene	ND(3.7)	ND(15)	NA	ND(7.1)	ND(14)	ND(29) [ND(29)]	
Indeno(1,2,3-cd)pyrene	ND(0.37)	1.7	NA	ND(0.71)	4.2	ND(2.9) [ND(2.9)]	
Isodrin	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
Isophorone	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
Isosafrole	ND(0.74)	ND(2.9)	NA	ND(1.4)	ND(2.9)	ND(5.7) [ND(5.9)]	
Methapyrilene	ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]	
Methyl Methanesulfonate	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
Naphthalene	ND(0.37)	1.9	NA	ND(0.71)	0.27 J	ND(2.9) [ND(2.9)]	
Nitrobenzene	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
N-Nitrosodiethylamine	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
N-Nitrosodimethylamine	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
N-Nitroso-di-n-butylamine	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
N-Nitroso-di-n-propylamine	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
N-Nitrosodiphenylamine	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
N-Nitrosomethylethylamine	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
N-Nitrosomorpholine	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
N-Nitrosopiperidine	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
N-Nitrosopyrrolidine	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
o,o,o-Triethylphosphorothioate	ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]	
o-Toluidine	ND(0.74)	ND(2.9)	NA	ND(1.4)	ND(2.9)	ND(5.7) [ND(5.9)]	
p-Dimethylaminoazobenzene	ND(0.74)	ND(2.9)	NA	ND(1.4)	ND(2.9)	ND(5.7) [ND(5.9)]	
Pentachlorobenzene	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
Pentachloroethane	ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]	
Pentachloronitrobenzene	ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]	
Pentachlorophenol	ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]	
Phenacetin	ND(0.74)	ND(2.9)	NA	ND(1.4)	ND(2.9)	ND(5.7) [ND(5.9)]	
Phenanthrene	0.075 J	2.3	NA	ND(0.71)	13	ND(2.9) [ND(2.9)]	
Phenol	ND(0.37)	ND(1.5)	NA	ND(0.71)	ND(1.4)	ND(2.9) [ND(2.9)]	
Pronamide	ND(0.74)	ND(2.9)	NA	ND(1.4)	ND(2.9)	ND(5.7) [ND(5.9)]	
Pyrene	0.086 J	3.4	NA	ND(0.71)	16	ND(2.9) [ND(2.9)]	
Pyridine	ND(0.74)	ND(2.9)	NA	ND(1.4)	ND(2.9)	ND(5.7) [ND(5.9)]	
Safrole	ND(0.74)	ND(2.9)	NA	ND(1.4)	ND(2.9)	ND(5.7) [ND(5.9)]	
Thionazin	ND(1.8)	ND(7.1)	NA	ND(3.5)	ND(7.0)	ND(14) [ND(14)]	
<b>Furans</b>							
2,3,7,8-TCDF	ND(0.000014) X	ND(0.000028) X	NA	ND(0.0000045) X	ND(0.00014) XJ	ND(0.000088) X [ND(0.000090) X]	
TCDFs (total)	ND(0.000020) X	ND(0.000016) X	NA	ND(0.000047) X	ND(0.0011) X	ND(0.00071) X [ND(0.00081) X]	
1,2,3,7,8-PeCDF	ND(0.0000066) X	0.0000075 J	NA	0.0000017 J	0.00014 J	0.000096 [0.000086]	
2,3,4,7,8-PeCDF	0.0000014 J	0.0000077 J	NA	ND(0.000035) X	0.00018	0.00012 [0.00011]	
PeCDFs (total)	ND(0.000050) X	ND(0.000096) X	NA	ND(0.00022) X	ND(0.0031) XQJ	ND(0.0018) X [ND(0.0016) X]	
1,2,3,4,7,8-HxCDF	0.0000029 J	0.0000097 J	NA	0.0000096	0.00075	ND(0.00057) X [ND(0.00049) X]	
1,2,3,6,7,8-HxCDF	ND(0.000046) X	ND(0.0000055) X	NA	ND(0.000012) X	ND(0.00044) XJ	0.000096 [0.00093]	
1,2,3,7,8,9-HxCDF	ND(0.0000014)	ND(0.0000015)	NA	ND(0.0000036)	0.00045 J	0.000020 J [0.000016 J]	
2,3,4,6,7,8-HxCDF	0.00000078 J	0.00000023 J	NA	ND(0.0000021) X	0.000069	0.000038 J [0.000035]	
HxCDFs (total)	ND(0.000044) X	ND(0.0000038) X	NA	ND(0.00026) X	ND(0.0029) X	ND(0.0016) X [ND(0.0015) X]	
1,2,3,4,6,7,8-HpCDF	0.0000062	ND(0.0000094) X	NA	0.000079	0.00065	0.00042 [0.00032]	
1,2,3,4,7,8,9-HpCDF	0.0000012 J	ND(0.0000022)	NA	ND(0.000013) X	0.00044	0.00022 [0.00016]	
HpCDFs (total)	0.000016	ND(0.000017) X	NA	ND(0.000084) X	0.0017	0.00095 [ND(0.00072) X]	
OCDF	0.0000075 J	0.0000013 J	NA	0.0000081 J	0.0015	0.00084 [0.00052]	

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parameter	K10-11-2					
	RAA15-A9 0-1 02/24/03	RAA15-A15 3-6 02/21/03	RAA15-A15 4-6 02/21/03	RAA15-B7 0-1 02/25/03	RAA15-B11 0-1 02/25/03	RAA15-B15 0-1 02/25/03
<b>Dioxins</b>						
2,3,7,8-TCDD	ND(0.0000029)	ND(0.0000037)	NA	ND(0.0000036)	ND(0.000016) X	ND(0.000014) [ND(0.000015)]
TCDDs (total)	ND(0.0000029)	ND(0.000029) X	NA	ND(0.0000036)	ND(0.000053) X	0.000020 J [ND(0.000020) X]
1,2,3,7,8-PeCDD	ND(0.0000020)	ND(0.0000022)	NA	ND(0.0000054)	ND(0.000053) X	ND(0.000026) X [ND(0.000027) X]
PeCDDs (total)	ND(0.0000022) X	ND(0.0000031) X	NA	ND(0.0000028) X	ND(0.000052) X	ND(0.000020) X [ND(0.000040) X]
1,2,3,4,7,8-HxCDD	ND(0.0000019)	ND(0.0000024)	NA	ND(0.0000034)	ND(0.000026) X	ND(0.000033) X [ND(0.000039) X]
1,2,3,6,7,8-HxCDD	ND(0.0000045) X	ND(0.0000023)	NA	ND(0.0000032)	ND(0.000072)	ND(0.000049) X [ND(0.000043)]
1,2,3,7,8,9-HxCDD	ND(0.0000028) X	ND(0.0000037) X	NA	ND(0.0000033)	ND(0.000074)	ND(0.000055) [ND(0.000050) X]
HxCDDs (total)	ND(0.000023) X	ND(0.000027) X	NA	ND(0.000081) X	ND(0.000078) X	ND(0.000053) X [ND(0.000052) X]
1,2,3,4,6,7,8-HpCDD	0.000010	0.000011 J	NA	0.000018 J	0.000040 J	0.000024 J [0.000020 J]
HpCDDs (total)	0.000018	0.000019 J	NA	ND(0.000035) X	0.000083 J	0.000050 J [0.000044 J]
OCDD	0.00011	ND(0.000049)	NA	0.000015 J	0.00026 J	0.00013 J [0.000083 J]
Total TEQs (WHO TEFs)	0.000019	0.000011	NA	0.000011	0.00023	0.00012 [0.00011]
<b>Inorganics</b>						
Antimony	ND(6.70)	ND(6.70)	NA	ND(6.50)	ND(6.50)	ND(6.50) [ND(6.70)]
Arsenic	3.00	5.40	NA	6.70	3.40	2.30 [2.90]
Barium	15.7 B	29.0	NA	15.3 J	27.2 J	17.5 J [25.9 J]
Beryllium	0.180 B	0.150 B	NA	0.300 B	0.300 B	0.310 B [0.260 B]
Cadmium	0.450 B	0.170 B	NA	ND(0.540)	0.110 B	ND(0.540) [ND(0.550)]
Chromium	4.40 J	6.70	NA	11.7 J	7.30 J	4.70 J [7.90 J]
Cobalt	4.30 B	6.40	NA	12.0	4.50 B	4.60 B [5.10 B]
Copper	10.6 J	26.6	NA	25.2 J	31.5 J	20.9 J [25.6 J]
Cyanide	ND(0.560)	0.210 B	NA	ND(0.540)	ND(0.540)	ND(0.540) [ND(0.200)]
Lead	12.1 J	20.0	NA	11.5 J	34.4 J	15.5 J [27.8 J]
Mercury	0.0180 B	0.0730	NA	0.0200 B	0.130	0.0400 [0.0550]
Nickel	8.30 J	12.8	NA	20.5	9.90	8.60 [10.3]
Selenium	ND(0.560)	ND(0.560)	NA	ND(0.540)	ND(0.540)	ND(0.540) [ND(0.550)]
Silver	ND(1.10)	ND(1.10)	NA	ND(1.10)	ND(1.10)	ND(1.10) [ND(1.10)]
Sulfide	ND(11.2)	ND(11.2)	NA	ND(10.8)	ND(10.9)	ND(10.8) [ND(11.1)]
Thallium	ND(1.10) J	ND(1.10) J	NA	0.950 B	ND(1.10)	ND(1.10) [ND(1.10)]
Tin	ND(2.70)	ND(6.30)	NA	ND(3.40)	ND(4.50)	ND(4.20) [ND(5.60)]
Vanadium	6.50 J	8.20	NA	11.9	7.50	26.2 [22.1]
Zinc	29.1 J	44.6	NA	61.1	51.7	31.5 [48.5]



**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-2						
	RAA15-C8 6-8 02/26/03	RAA15-C8 6-10 02/26/03	RAA15-C11 1-3 02/21/03	RAA15-C11 3-6 05/05/04	RAA15-C11E 1-3 05/05/04	RAA15-C11NE 1-3 05/05/04	RAA15-C11NW 1-3 05/05/04
<b>Volatile Organics</b>							
1,1,1,2-Tetrachloroethane	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
1,1,1-Trichloroethane	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
1,1,2-Trichloroethane	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
1,1-Dichloroethane	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
1,1-Dichloroethene	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
1,2,3-Trichloropropane	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
1,2-Dibromoethane	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
1,2-Dichloroethane	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
1,2-Dichloropropane	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
1,4-Dioxane	ND(1.1) J	NA	ND(0.90) J	NA	NA	NA	NA
2-Butanone	ND(0.0053) J	NA	ND(0.0045)	NA	NA	NA	NA
2-Chloro-1,3-butadiene	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
2-Chloroethylvinylether	ND(0.011) J	NA	ND(0.0090) J	NA	NA	NA	NA
2-Hexanone	ND(0.021) J	NA	ND(0.018)	NA	NA	NA	NA
3-Chloropropene	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
4-Methyl-2-pentanone	ND(0.021) J	NA	ND(0.018)	NA	NA	NA	NA
Acetone	ND(0.021) J	NA	ND(0.018)	NA	NA	NA	NA
Acetonitrile	ND(0.11) J	NA	ND(0.090) J	NA	NA	NA	NA
Acrolein	ND(0.11) J	NA	ND(0.090) J	NA	NA	NA	NA
Acrylonitrile	ND(0.11) J	NA	ND(0.090) J	NA	NA	NA	NA
Benzene	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Bromodichloromethane	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Bromoform	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Bromomethane	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Carbon Disulfide	ND(0.0053)	NA	0.00069 J	NA	NA	NA	NA
Carbon Tetrachloride	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Chlorobenzene	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Chloroethane	ND(0.011) J	NA	ND(0.0090) J	NA	NA	NA	NA
Chloroform	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Chloromethane	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
cis-1,3-Dichloropropene	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Dibromochloromethane	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Dibromomethane	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Dichlorodifluoromethane	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Ethyl Methacrylate	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Ethylbenzene	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Iodomethane	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Isobutanol	ND(0.21) J	NA	ND(0.18) J	NA	NA	NA	NA
Methacrylonitrile	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Methyl Methacrylate	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Methylene Chloride	0.0023 J	NA	ND(0.0045)	NA	NA	NA	NA
Propionitrile	ND(0.011) J	NA	ND(0.0090) J	NA	NA	NA	NA
Styrene	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Tetrachloroethene	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Toluene	0.0012 J	NA	ND(0.0045)	NA	NA	NA	NA
trans-1,2-Dichloroethene	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
trans-1,3-Dichloropropene	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Trichloroethene	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Trichlorofluoromethane	ND(0.0053)	NA	ND(0.0045) J	NA	NA	NA	NA
Vinyl Acetate	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
Vinyl Chloride	ND(0.011) J	NA	ND(0.0090) J	NA	NA	NA	NA
Xylenes (total)	ND(0.0053)	NA	ND(0.0045)	NA	NA	NA	NA
<b>Semivolatile Organics</b>							
1,2,4,5-Tetrachlorobenzene	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
1,2,4-Trichlorobenzene	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
1,2-Dichlorobenzene	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
1,2-Diphenylhydrazine	NA	ND(0.35)	ND(7.7)	ND(0.36) J [ND(0.37) J]	ND(0.37) J	ND(0.38) J	ND(0.37) J
1,3,5-Trinitrobenzene	NA	ND(1.7)	ND(37)	ND(0.36) J [ND(0.37) J]	ND(0.37) J	ND(0.38) J	ND(0.37) J
1,3-Dichlorobenzene	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-11-2						
	Sample ID: Sample Depth(Feet): Date Collected:	RAA15-C8 6-8 02/26/03	RAA15-C8 6-10 02/26/03	RAA15-C11 1-3 02/21/03	RAA15-C11 3-6 05/05/04	RAA15-C11E 1-3 05/05/04	RAA15-C11NE 1-3 05/05/04	RAA15-C11NW 1-3 05/05/04
<b>Semivolatile Organics (continued)</b>								
1,3-Dinitrobenzene	NA	ND(0.35)	ND(7.7)	ND(0.73) J [ND(0.74) J]	ND(0.75) J	ND(0.75) J	ND(0.74) J	ND(0.74) J
1,4-Dichlorobenzene	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)
1,4-Naphthoquinone	NA	ND(1.7)	ND(37)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)	ND(0.74)
1-Naphthylamine	NA	ND(0.35)	ND(7.7)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)	ND(0.74)
2,3,4,6-Tetrachlorophenol	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)
2,4,5-Trichlorophenol	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)
2,4,6-Trichlorophenol	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)
2,4-Dichlorophenol	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)
2,4-Dimethylphenol	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)
2,4-Dinitrophenol	NA	ND(1.7)	ND(37)	ND(1.9) [ND(1.9)]	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)
2,4-Dinitrotoluene	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)
2,6-Dichlorophenol	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)
2,6-Dinitrotoluene	NA	ND(0.35)	ND(7.7)	ND(0.36) J [ND(0.37) J]	ND(0.37) J	ND(0.38) J	ND(0.37) J	ND(0.37) J
2-Acetylaminofluorene	NA	ND(0.71)	ND(15)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)	ND(0.74)
2-Chloronaphthalene	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)
2-Chlorophenol	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)
2-Methylnaphthalene	NA	ND(0.35)	2.0 J	ND(0.36) [ND(0.37)]	0.69	0.20 J	0.80	0.80
2-Methylphenol	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)
2-Naphthylamine	NA	ND(0.35)	ND(7.7)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)	ND(0.74)
2-Nitroaniline	NA	ND(1.7)	ND(37)	ND(1.9) J [ND(1.9) J]	ND(1.9) J	ND(1.9) J	ND(1.9) J	ND(1.9) J
2-Nitrophenol	NA	ND(0.35)	ND(7.7)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)	ND(0.74)
2-Picoline	NA	ND(0.71)	ND(15)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)	ND(0.37)
3&4-Methylphenol	NA	ND(0.71)	ND(15)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)	ND(0.74)
3,3'-Dichlorobenzidine	NA	ND(1.7)	ND(37)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)	ND(0.74)
3,3'-Dimethylbenzidine	NA	ND(1.7)	ND(37)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)	ND(0.37)
3-Methylcholanthrene	NA	ND(1.7)	2.1 J	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)	ND(0.74)
3-Nitroaniline	NA	ND(1.7)	ND(37)	ND(1.9) J [ND(1.9) J]	ND(1.9) J	ND(1.9) J	ND(1.9) J	ND(1.9) J
4,6-Dinitro-2-methylphenol	NA	ND(1.7)	ND(37)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)	ND(0.37)
4-Aminobiphenyl	NA	ND(1.7)	ND(37)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)	ND(0.74)
4-Bromophenyl-phenylether	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)	ND(0.37)
4-Chloro-3-Methylphenol	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)	ND(0.37)
4-Chloroaniline	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)	ND(0.37)
4-Chlorobenzilate	NA	ND(0.35)	ND(7.7)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)	ND(0.74)
4-Chlorophenyl-phenylether	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)	ND(0.37)
4-Nitroaniline	NA	ND(1.7)	ND(37)	ND(1.9) J [ND(1.9) J]	ND(1.9) J	ND(1.9) J	ND(1.9) J	ND(1.9) J
4-Nitrophenol	NA	ND(1.7)	ND(37)	ND(1.9) J [ND(1.9) J]	ND(1.9) J	ND(1.9) J	ND(1.9) J	ND(1.9) J
4-Nitroquinoline-1-oxide	NA	ND(3.5)	ND(77)	ND(0.73) J [ND(0.74) J]	ND(0.75) J	ND(0.75) J	ND(0.74) J	ND(0.74) J
4-Phenylenediamine	NA	ND(7.1)	ND(150)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)	ND(0.74)
5-Nitro-o-toluidine	NA	ND(0.71)	ND(15)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)	ND(0.74)
7,12-Dimethylbenz(a)anthracene	NA	ND(0.71)	ND(15)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)	ND(0.74)
a,a'-Dimethylphenethylamine	NA	ND(1.7)	ND(37)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)	ND(0.74)
Acenaphthene	NA	ND(0.35)	9.7	0.14 J [0.15 J]	3.4	1.1	4.2	4.2
Acenaphthylene	NA	ND(0.35)	0.65 J	0.15 J [0.087 J]	0.47	0.47	0.53	0.53
Acetophenone	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)	ND(0.37)
Aniline	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)	ND(0.37)
Anthracene	NA	ND(0.35)	27	0.37 [0.43]	12	4.1	10	10
Aramite	NA	ND(1.7)	ND(37)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)	ND(0.74)
Benzidine	NA	ND(3.5)	ND(77)	ND(0.73) J [ND(0.74) J]	ND(0.75) J	ND(0.75) J	ND(0.74) J	ND(0.74) J
Benzo(a)anthracene	NA	ND(0.35)	86	1.2 [0.93]	26	12	24	24
Benzo(a)pyrene	NA	ND(0.35)	71	0.66 [0.48]	14	6.6	13	13
Benzo(b)fluoranthene	NA	ND(0.35)	68	0.62 [0.38]	14	6.0	12	12
Benzo(g,h,i)perylene	NA	ND(0.35)	21	0.44 [0.26 J]	6.0	3.6	7.1	7.1
Benzo(k)fluoranthene	NA	ND(0.35)	37	0.72 [0.47]	18	5.9	14	14
Benzyl Alcohol	NA	ND(0.35)	ND(7.7)	ND(0.73) J [ND(0.74) J]	ND(0.75) J	ND(0.75) J	ND(0.74) J	ND(0.74) J
bis(2-Chloroethoxy)methane	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)	ND(0.37)
bis(2-Chloroethyl)ether	NA	ND(0.35)	ND(7.7)	ND(0.36) J [ND(0.37) J]	ND(0.37) J	ND(0.38) J	ND(0.37) J	ND(0.37) J
bis(2-Chloroisopropyl)ether	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)	ND(0.37)
bis(2-Ethylhexyl)phthalate	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.36)]	ND(0.37)	ND(0.37)	ND(0.37)	ND(0.37)
Butylbenzylphthalate	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)	ND(0.37)
Chrysene	NA	ND(0.35)	92	1.2 [0.96]	26	11	24	24
Diallate	NA	ND(0.71)	ND(15)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)	ND(0.74)
Dibenzo(a,h)anthracene	NA	ND(0.35)	11	0.14 J [ND(0.37)]	2.3	1.4	2.6	2.6

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth (Feet): Date Collected:	K10-11-2						
	RAA15-C8 6-8 02/26/03	RAA15-C8 6-10 02/26/03	RAA15-C11 1-3 02/21/03	RAA15-C11 3-6 05/05/04	RAA15-C11E 1-3 05/05/04	RAA15-C11NE 1-3 05/05/04	RAA15-C11NW 1-3 05/05/04
<b>Semivolatile Organics (continued)</b>							
Dibenzofuran	NA	ND(0.35)	6.2 J	ND(0.36) [0.079 J]	2.0	0.62	2.4
Diethylphthalate	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Dimethylphthalate	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Di-n-Butylphthalate	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Di-n-Octylphthalate	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Diphenylamine	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Ethyl Methanesulfonate	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Fluoranthene	NA	ND(0.35)	190	2.4 [2.4]	66	29	60
Fluorene	NA	ND(0.35)	13	0.12 J [0.13 J]	4.4	1.3	5.1
Hexachlorobenzene	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Hexachlorobutadiene	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Hexachlorocyclopentadiene	NA	ND(1.7)	ND(37)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Hexachloroethane	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Hexachlorophene	NA	ND(7.2) J	ND(160) J	ND(0.73) J [ND(0.74) J]	ND(0.75) J	ND(0.75) J	ND(0.74) J
Hexachloropropene	NA	ND(3.5)	ND(77)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Indeno(1,2,3-cd)pyrene	NA	ND(0.35)	26	0.40 [0.25 J]	5.7	3.2	6.5
Isodrin	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Isophorone	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Isosafrole	NA	ND(0.71)	ND(15)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)
Methapyrilene	NA	ND(1.7)	ND(37)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)
Methyl Methanesulfonate	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Naphthalene	NA	ND(0.35)	4.7 J	0.13 J [0.15 J]	2.0	0.75	2.1
Nitrobenzene	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
N-Nitrosodimethylamine	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
N-Nitrosodimethylamine	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
N-Nitroso-di-n-butylamine	NA	ND(0.35)	ND(7.7)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)
N-Nitroso-di-n-propylamine	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
N-Nitrosodiphenylamine	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
N-Nitrosomethylethylamine	NA	ND(0.35)	ND(7.7)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)
N-Nitrosomorpholine	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
N-Nitrosopiperidine	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
N-Nitrosopyrrolidine	NA	ND(0.35)	ND(7.7)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)
o,o,o-Triethylphosphorothioate	NA	ND(1.7)	ND(37)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
o-Toluidine	NA	ND(0.71)	ND(15)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
p-Dimethylaminoazobenzene	NA	ND(0.71)	ND(15)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)
Pentachlorobenzene	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Pentachloroethane	NA	ND(1.7)	ND(37)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Pentachloronitrobenzene	NA	ND(1.7)	ND(37)	ND(0.73) J [ND(0.74) J]	ND(0.75) J	ND(0.75) J	ND(0.74) J
Pentachlorophenol	NA	ND(1.7)	ND(37)	ND(1.9) [ND(1.9)]	ND(1.9)	ND(1.9)	ND(1.9)
Phenacetin	NA	ND(0.71)	ND(15)	ND(0.73) [ND(0.74)]	ND(0.75)	ND(0.75)	ND(0.74)
Phenanthrene	NA	ND(0.35)	120	1.3 [1.5]	40	13	38
Phenol	NA	ND(0.35)	ND(7.7)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Pronamide	NA	ND(0.71)	ND(15)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Pyrene	NA	ND(0.35)	140	2.1 [1.9]	50	23	46
Pyridine	NA	ND(0.71)	ND(15)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Safrole	NA	ND(0.71)	ND(15)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
Thionazin	NA	ND(1.7)	ND(37)	ND(0.36) [ND(0.37)]	ND(0.37)	ND(0.38)	ND(0.37)
<b>Furans</b>							
2,3,7,8-TCDF	NA	0.0000074 J	ND(0.000038) X	NA	NA	NA	NA
TCDFs (total)	NA	ND(0.000079) X	ND(0.00071) X	NA	NA	NA	NA
1,2,3,7,8-PeCDF	NA	ND(0.0000018)	0.000020 J	NA	NA	NA	NA
2,3,4,7,8-PeCDF	NA	ND(0.0000036) X	0.000030 J	NA	NA	NA	NA
PeCDFs (total)	NA	ND(0.000020) X	ND(0.0017) X	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	NA	0.0000056 J	0.000085	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	NA	ND(0.000025) X	ND(0.00021) X	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	NA	ND(0.0000012)	ND(0.000044) X	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	NA	0.0000029 J	0.000021 J	NA	NA	NA	NA
HxCDFs (total)	NA	ND(0.000017) X	ND(0.0014) X	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	NA	ND(0.000011) X	0.00012	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	NA	ND(0.0000016)	0.000047 J	NA	NA	NA	NA
HpCDFs (total)	NA	ND(0.000023) X	0.00029	NA	NA	NA	NA
OCDF	NA	0.0000015 J	0.00017	NA	NA	NA	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-11-2						
	Sample ID: Sample Depth(Feet): Date Collected:	RAA15-C8 6-8 02/26/03	RAA15-C8 6-10 02/26/03	RAA15-C11 1-3 02/21/03	RAA15-C11 3-6 05/05/04	RAA15-C11E 1-3 05/05/04	RAA15-C11NE 1-3 05/05/04	RAA15-C11NW 1-3 05/05/04
<b>Dioxins</b>								
2,3,7,8-TCDD	NA	ND(0.00000035)	ND(0.0000014)	NA	NA	NA	NA	NA
TCDDs (total)	NA	ND(0.00000035)	ND(0.0000029) X	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	NA	ND(0.00000019)	ND(0.0000047) X	NA	NA	NA	NA	NA
PeCDDs (total)	NA	ND(0.00000019)	ND(0.0000036) X	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	NA	ND(0.00000018)	ND(0.0000025) X	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	NA	ND(0.00000017)	0.0000055 J	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	NA	ND(0.00000018)	ND(0.0000040) X	NA	NA	NA	NA	NA
HxCDDs (total)	NA	ND(0.00000089) X	ND(0.0000054) X	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDD	NA	ND(0.0000013) X	0.0000076	NA	NA	NA	NA	NA
HpCDDs (total)	NA	ND(0.00000056)	0.00014	NA	NA	NA	NA	NA
OCDD	NA	0.0000092 J	0.00064	NA	NA	NA	NA	NA
Total TEQs (WHO TEFs)	NA	0.00000069	0.000046	NA	NA	NA	NA	NA
<b>Inorganics</b>								
Antimony	NA	ND(6.40) J	ND(7.00)	NA	NA	NA	NA	NA
Arsenic	NA	2.20	4.30	NA	NA	NA	NA	NA
Barium	NA	14.4 B	50.1	NA	NA	NA	NA	NA
Beryllium	NA	ND(0.310)	0.0940 B	NA	NA	NA	NA	NA
Cadmium	NA	ND(0.530)	0.440 B	NA	NA	NA	NA	NA
Chromium	NA	4.20	8.90	NA	NA	NA	NA	NA
Cobalt	NA	5.20 B	6.00	NA	NA	NA	NA	NA
Copper	NA	8.60	51.7	NA	NA	NA	NA	NA
Cyanide	NA	0.200 B	0.200 B	NA	NA	NA	NA	NA
Lead	NA	4.50	37.8	NA	NA	NA	NA	NA
Mercury	NA	0.0170 B	0.250	NA	NA	NA	NA	NA
Nickel	NA	8.50 J	14.1	NA	NA	NA	NA	NA
Selenium	NA	ND(0.530) J	ND(0.580)	NA	NA	NA	NA	NA
Silver	NA	ND(1.10)	0.210 B	NA	NA	NA	NA	NA
Sulfide	NA	ND(10.7)	ND(11.6)	NA	NA	NA	NA	NA
Thallium	NA	ND(1.10)	ND(1.20) J	NA	NA	NA	NA	NA
Tin	NA	ND(4.10)	ND(6.30)	NA	NA	NA	NA	NA
Vanadium	NA	ND(5.00)	10.5	NA	NA	NA	NA	NA
Zinc	NA	28.4	84.3	NA	NA	NA	NA	NA

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parameter	Parcel ID:	K10-11-2						
	Sample ID: Sample Depth (Feet): Date Collected:	RAA15-C17 0-1 02/25/03	RAA15-D8 0-1 02/27/03	RAA15-D13 0-1 02/25/03	RAA15-E8NENE 1-3 09/16/04	RAA15-E8NWNE 1-3 09/16/04	RAA15-E11 0-1 02/21/03	RAA15-E11 4-6 02/27/03
<b>Volatile Organics</b>								
1,1,1,2-Tetrachloroethane	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
1,1,1-Trichloroethane	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
1,1,2,2-Tetrachloroethane	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
1,1,2-Trichloroethane	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
1,1-Dichloroethane	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
1,1-Dichloroethene	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
1,2,3-Trichloropropane	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
1,2-Dibromo-3-chloropropane	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
1,2-Dibromoethane	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
1,2-Dichloroethane	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
1,2-Dichloropropane	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
1,4-Dioxane	ND(1.0) J	ND(1.2) J	ND(1.3) J	NA	NA	ND(1.2) J	ND(1.1) J	
2-Butanone	ND(0.0051) J	ND(0.0059) J	ND(0.0065) J	NA	NA	ND(0.0060)	ND(0.0054) J	
2-Chloro-1,3-butadiene	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
2-Chloroethylvinylether	ND(0.010) J	ND(0.012) J	ND(0.013) J	NA	NA	ND(0.012) J	ND(0.011) J	
2-Hexanone	ND(0.020) J	ND(0.023) J	ND(0.026) J	NA	NA	ND(0.024)	ND(0.021)	
3-Chloropropene	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
4-Methyl-2-pentanone	ND(0.020)	ND(0.023)	ND(0.026)	NA	NA	ND(0.024)	ND(0.021)	
Acetone	ND(0.020) J	ND(0.023) J	ND(0.026) J	NA	NA	ND(0.024)	ND(0.021) J	
Acetonitrile	ND(0.10)	ND(0.12) J	ND(0.13)	NA	NA	ND(0.12) J	ND(0.11) J	
Acrolein	ND(0.10) J	ND(0.12) J	ND(0.13) J	NA	NA	ND(0.12) J	ND(0.11) J	
Acrylonitrile	ND(0.10)	ND(0.12)	ND(0.13)	NA	NA	ND(0.12)	ND(0.11)	
Benzene	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Bromodichloromethane	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Bromoform	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Bromomethane	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Carbon Disulfide	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Carbon Tetrachloride	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Chlorobenzene	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Chloroethane	ND(0.010)	ND(0.012) J	ND(0.013)	NA	NA	ND(0.012)	ND(0.011) J	
Chloroform	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Chloromethane	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
cis-1,3-Dichloropropene	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Dibromochloromethane	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Dibromomethane	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Dichlorodifluoromethane	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Ethyl Methacrylate	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Ethylbenzene	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Iodomethane	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Isobutanol	ND(0.20) J	ND(0.23) J	ND(0.26) J	NA	NA	ND(0.24) J	ND(0.21) J	
Methacrylonitrile	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Methyl Methacrylate	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Methylene Chloride	ND(0.0051)	0.0015 J	ND(0.0065)	NA	NA	0.0010 J	ND(0.0054)	
Propionitrile	ND(0.010)	ND(0.012)	ND(0.013)	NA	NA	ND(0.012) J	ND(0.011)	
Styrene	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Tetrachloroethene	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Toluene	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
trans-1,2-Dichloroethene	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
trans-1,3-Dichloropropene	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
trans-1,4-Dichloro-2-butene	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Trichloroethene	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Trichlorofluoromethane	ND(0.0051)	ND(0.0059) J	ND(0.0065)	NA	NA	ND(0.0060) J	ND(0.0054) J	
Vinyl Acetate	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
Vinyl Chloride	ND(0.010)	ND(0.012)	ND(0.013)	NA	NA	ND(0.012)	ND(0.011)	
Xylenes (total)	ND(0.0051)	ND(0.0059)	ND(0.0065)	NA	NA	ND(0.0060)	ND(0.0054)	
<b>Semivolatile Organics</b>								
1,2,4,5-Tetrachlorobenzene	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA	
1,2,4-Trichlorobenzene	ND(1.6)	ND(1.7)	0.068 J	ND(0.38)	ND(0.36)	ND(2.0)	NA	
1,2-Dichlorobenzene	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA	
1,2-Diphenylhydrazine	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA	
1,3,5-Trinitrobenzene	ND(7.9)	ND(8.1)	ND(3.9)	ND(0.38) J	ND(0.36) J	ND(9.5)	NA	
1,3-Dichlorobenzene	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA	

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-2						
	RAA15-C17 0-1 02/25/03	RAA15-D8 0-1 02/27/03	RAA15-D13 0-1 02/25/03	RAA15-E8NENE 1-3 09/16/04	RAA15-E8NWNE 1-3 09/16/04	RAA15-E11 0-1 02/21/03	RAA15-E11 4-6 02/27/03
<b>Semivolatile Organics (continued)</b>							
1,3-Dinitrobenzene	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.76)	ND(0.72)	ND(2.0)	NA
1,4-Dichlorobenzene	ND(1.6)	ND(1.7)	0.10 J	ND(0.38)	ND(0.36)	ND(2.0)	NA
1,4-Naphthoquinone	ND(7.9)	ND(8.1)	ND(3.9)	ND(0.76) J	ND(0.72) J	ND(9.5)	NA
1-Naphthylamine	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.76)	ND(0.72)	ND(2.0)	NA
2,3,4,6-Tetrachlorophenol	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
2,4,5-Trichlorophenol	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
2,4,6-Trichlorophenol	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
2,4-Dichlorophenol	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
2,4-Dimethylphenol	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
2,4-Dinitrophenol	ND(7.9)	ND(8.1)	ND(3.9)	ND(1.9) J	ND(1.8) J	ND(9.5)	NA
2,4-Dinitrotoluene	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
2,6-Dichlorophenol	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
2,6-Dinitrotoluene	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
2-Acetylaminofluorene	ND(3.3)	ND(3.3)	ND(1.6)	ND(0.76)	ND(0.72)	ND(3.9)	NA
2-Chloronaphthalene	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
2-Chlorophenol	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
2-Methylnaphthalene	ND(1.6)	0.29 J	0.080 J	ND(0.38)	ND(0.36)	ND(2.0)	NA
2-Methylphenol	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
2-Naphthylamine	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.76)	ND(0.72)	ND(2.0)	NA
2-Nitroaniline	ND(7.9)	ND(8.1)	ND(3.9)	ND(1.9)	ND(1.8)	ND(9.5)	NA
2-Nitrophenol	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.76)	ND(0.72)	ND(2.0)	NA
2-Picoline	ND(3.3)	ND(3.3)	ND(1.6)	ND(0.38)	ND(0.36)	ND(3.9)	NA
3&4-Methylphenol	ND(3.3)	ND(3.3)	ND(1.6)	ND(0.76)	ND(0.72)	ND(3.9)	NA
3,3'-Dichlorobenzidine	ND(7.9)	ND(8.1)	ND(3.9)	ND(0.76)	ND(0.72)	ND(9.5)	NA
3,3'-Dimethylbenzidine	ND(7.9)	ND(8.1)	ND(3.9)	ND(0.38)	ND(0.36)	ND(9.5)	NA
3-Methylcholanthrene	ND(7.9)	0.25 J	ND(3.9)	ND(0.76) J	ND(0.72) J	ND(9.5)	NA
3-Nitroaniline	ND(7.9)	ND(8.1)	ND(3.9)	ND(1.9)	ND(1.8)	ND(9.5)	NA
4,6-Dinitro-2-methylphenol	ND(7.9)	ND(8.1)	ND(3.9)	ND(0.38)	ND(0.36)	ND(9.5)	NA
4-Aminobiphenyl	ND(7.9)	ND(8.1)	ND(3.9)	ND(0.76)	ND(0.72)	ND(9.5)	NA
4-Bromophenyl-phenylether	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
4-Chloro-3-Methylphenol	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
4-Chloroaniline	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
4-Chlorobenzilate	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.76)	ND(0.72)	ND(2.0)	NA
4-Chlorophenyl-phenylether	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
4-Nitroaniline	ND(7.9)	ND(8.1)	ND(3.9)	ND(1.9)	ND(1.8)	ND(9.5)	NA
4-Nitrophenol	ND(7.9)	ND(8.1)	ND(3.9)	ND(1.9) J	ND(1.8) J	ND(9.5)	NA
4-Nitroquinoline-1-oxide	ND(16)	ND(17)	ND(8.0)	ND(0.76) J	ND(0.72) J	ND(20)	NA
4-Phenylenediamine	ND(33)	ND(33)	ND(16)	ND(0.76)	ND(0.72)	ND(39)	NA
5-Nitro-o-toluidine	ND(3.3)	ND(3.3)	ND(1.6)	ND(0.76)	ND(0.72)	ND(3.9)	NA
7,12-Dimethylbenz(a)anthracene	ND(3.3)	ND(3.3)	ND(1.6)	ND(0.76)	ND(0.72)	ND(3.9)	NA
a,a'-Dimethylphenethylamine	ND(7.9)	ND(8.1)	ND(3.9)	ND(0.76)	ND(0.72)	ND(9.5)	NA
Acenaphthene	0.12 J	1.3 J	0.068 J	ND(0.38)	ND(0.36)	ND(2.0)	NA
Acenaphthylene	0.38 J	0.31 J	0.25 J	ND(0.38)	ND(0.36)	ND(2.0)	NA
Acetophenone	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
Aniline	ND(1.6)	ND(1.7)	1.0	ND(0.38)	ND(0.36)	ND(2.0)	NA
Anthracene	0.44 J	3.1	0.27 J	ND(0.38)	ND(0.36)	0.30 J	NA
Aramite	ND(7.9)	ND(8.1)	ND(3.9)	ND(0.76)	ND(0.72)	ND(9.5)	NA
Benzidine	ND(16)	ND(17)	ND(8.0)	ND(0.76) J	ND(0.72) J	ND(20)	NA
Benzo(a)anthracene	1.5 J	9.4	0.95	ND(0.38)	0.10 J	1.4 J	NA
Benzo(a)pyrene	1.5 J	8.7	0.95	ND(0.38)	ND(0.36)	1.3 J	NA
Benzo(b)fluoranthene	1.7	9.8	1.2	ND(0.38)	ND(0.36)	1.3 J	NA
Benzo(g,h,i)perylene	0.53 J	3.3	0.42 J	ND(0.38)	ND(0.36)	0.42 J	NA
Benzo(k)fluoranthene	1.8	5.9	1.2	ND(0.38)	0.092 J	1.3 J	NA
Benzyl Alcohol	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.76)	ND(0.72)	ND(2.0)	NA
bis(2-Chloroethoxy)methane	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
bis(2-Chloroethyl)ether	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
bis(2-Chloroisopropyl)ether	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
bis(2-Ethylhexyl)phthalate	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.37)	ND(0.36)	ND(2.0)	NA
Butylbenzylphthalate	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
Chrysene	1.8	9.9	1.2	0.085 J	0.13 J	1.5 J	NA
Diallate	ND(3.3)	ND(3.3)	ND(1.6)	ND(0.76)	ND(0.72)	ND(3.9)	NA
Dibenzo(a,h)anthracene	ND(1.6)	1.7	0.13 J	ND(0.38)	ND(0.36)	ND(2.0)	NA

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth (Feet): Parameter Date Collected:	K10-11-2						
	RAA15-C17 0-1 02/25/03	RAA15-D8 0-1 02/27/03	RAA15-D13 0-1 02/25/03	RAA15-E8NENE 1-3 09/16/04	RAA15-E8NWNE 1-3 09/16/04	RAA15-E11 0-1 02/21/03	RAA15-E11 4-6 02/27/03
<b>Semivolatile Organics (continued)</b>							
Dibenzofuran	ND(1.6)	0.96 J	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
Diethylphthalate	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
Dimethylphthalate	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
Di-n-Butylphthalate	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
Di-n-Octylphthalate	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
Diphenylamine	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
Ethyl Methanesulfonate	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
Fluoranthene	4.2	22	2.1	0.16 J	0.26 J	3.0	NA
Fluorene	ND(1.6)	1.6 J	0.083 J	ND(0.38)	ND(0.36)	ND(2.0)	NA
Hexachlorobenzene	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
Hexachlorobutadiene	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
Hexachlorocyclopentadiene	ND(7.9)	ND(8.1)	ND(3.9)	ND(0.38)	ND(0.36)	ND(9.5)	NA
Hexachloroethane	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
Hexachlorophene	ND(33) J	ND(34) J	ND(16) J	ND(0.76)	ND(0.72)	ND(40) J	NA
Hexachloropropene	ND(16)	ND(17)	ND(8.0)	ND(0.38)	ND(0.36)	ND(20)	NA
Indeno(1,2,3-cd)pyrene	0.65 J	4.1	0.50 J	ND(0.38)	ND(0.36)	0.53 J	NA
Isodrin	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
Isophorone	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
Isosafrole	ND(3.3)	ND(3.3)	ND(1.6)	ND(0.76) J	ND(0.72) J	ND(3.9)	NA
Methapyrilene	ND(7.9)	ND(8.1)	ND(3.9)	ND(0.76) J	ND(0.72) J	ND(9.5)	NA
Methyl Methanesulfonate	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
Naphthalene	0.12 J	0.81 J	0.10 J	ND(0.38)	ND(0.36)	ND(2.0)	NA
Nitrobenzene	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
N-Nitrosodiethylamine	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
N-Nitrosodimethylamine	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
N-Nitroso-di-n-butylamine	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.76)	ND(0.72)	ND(2.0)	NA
N-Nitroso-di-n-propylamine	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
N-Nitrosodiphenylamine	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
N-Nitrosomethylethylamine	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.76)	ND(0.72)	ND(2.0)	NA
N-Nitrosomorpholine	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
N-Nitrosopiperidine	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
N-Nitrosopyrrolidine	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.76)	ND(0.72)	ND(2.0)	NA
o,o,o-Triethylphosphorothioate	ND(7.9)	ND(8.1)	ND(3.9)	ND(0.38)	ND(0.36)	ND(9.5)	NA
o-Toluidine	ND(3.3)	ND(3.3)	ND(1.6)	ND(0.38)	ND(0.36)	ND(3.9)	NA
p-Dimethylaminoazobenzene	ND(3.3)	ND(3.3)	ND(1.6)	ND(0.76) J	ND(0.72) J	ND(3.9)	NA
Pentachlorobenzene	ND(1.6)	ND(1.7)	ND(0.80)	ND(0.38)	ND(0.36)	ND(2.0)	NA
Pentachloroethane	ND(7.9)	ND(8.1)	ND(3.9)	ND(0.38)	ND(0.36)	ND(9.5)	NA
Pentachloronitrobenzene	ND(7.9)	ND(8.1)	ND(3.9)	ND(0.76)	ND(0.72)	ND(9.5)	NA
Pentachlorophenol	ND(7.9)	ND(8.1)	ND(3.9)	ND(1.9)	ND(1.8)	ND(9.5)	NA
Phenacetin	ND(3.3)	ND(3.3)	ND(1.6)	ND(0.76)	ND(0.72)	ND(3.9)	NA
Phenanthrene	1.7	16	1.1	0.078 J	0.15 J	1.1 J	NA
Phenol	ND(1.6)	ND(1.7)	0.12 J	ND(0.38)	ND(0.36)	ND(2.0)	NA
Pronamide	ND(3.3)	ND(3.3)	ND(1.6)	ND(0.38)	ND(0.36)	ND(3.9)	NA
Pyrene	2.5	19	1.4	0.16 J	0.22 J	2.0	NA
Pyridine	ND(3.3)	ND(3.3)	ND(1.6)	ND(0.38)	ND(0.36)	ND(3.9)	NA
Safrole	ND(3.3)	ND(3.3)	ND(1.6)	ND(0.38)	ND(0.36)	ND(3.9)	NA
Thionazin	ND(7.9)	ND(8.1)	ND(3.9)	ND(0.38)	ND(0.36)	ND(9.5)	NA
<b>Furans</b>							
2,3,7,8-TCDF	ND(0.00016) X	ND(0.000090)	ND(0.00043) X	NA	NA	ND(0.00018) X	NA
TCDFs (total)	ND(0.00015) X	ND(0.00012) X	ND(0.00046) X	NA	NA	ND(0.00016) X	NA
1,2,3,7,8-PeCDF	0.0000076 J	0.0000037 J	0.000014	NA	NA	0.000011	NA
2,3,4,7,8-PeCDF	0.000015 J	0.0000057 J	ND(0.00022) X	NA	NA	ND(0.00015) X	NA
PeCDFs (total)	ND(0.00040) X	ND(0.00023) X	ND(0.0012) X	NA	NA	ND(0.00038) X	NA
1,2,3,4,7,8-HxCDF	0.000024 J	0.000012 J	0.000034	NA	NA	0.000033	NA
1,2,3,6,7,8-HxCDF	ND(0.000041) X	ND(0.000024) X	ND(0.00019) X	NA	NA	ND(0.000044) X	NA
1,2,3,7,8,9-HxCDF	ND(0.000015)	ND(0.0000047)	ND(0.0000095)	NA	NA	0.000011 J	NA
2,3,4,6,7,8-HxCDF	0.0000086 J	ND(0.0000031) X	0.000017	NA	NA	0.0000062	NA
HxCDFs (total)	ND(0.00035) X	ND(0.00020) X	ND(0.0011) X	NA	NA	ND(0.00031) X	NA
1,2,3,4,6,7,8-HpCDF	0.000049 J	0.000035	0.000069	NA	NA	0.000031	NA
1,2,3,4,7,8,9-HpCDF	0.000013 J	0.0000053 J	0.000017	NA	NA	0.0000097	NA
HpCDFs (total)	ND(0.00014) X	0.000090	ND(0.00021) X	NA	NA	0.000065	NA
OCDF	0.000094 J	0.000069	0.00010	NA	NA	0.000040	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	K10-11-2						
	RAA15-C17	RAA15-D8	RAA15-D13	RAA15-E8NENE	RAA15-E8NWNE	RAA15-E11	RAA15-E11
	0-1 02/25/03	0-1 02/27/03	0-1 02/25/03	1-3 09/16/04	1-3 09/16/04	0-1 02/21/03	4-6 02/27/03
<b>Dioxins</b>							
2,3,7,8-TCDD	ND(0.0000011)	ND(0.0000011)	ND(0.0000085) X	NA	NA	ND(0.0000032)	NA
TCDDs (total)	0.000017 J	ND(0.0000011)	ND(0.0000056) X	NA	NA	ND(0.0000024) X	NA
1,2,3,7,8-PeCDD	ND(0.0000016) X	ND(0.0000051) X	ND(0.0000019) X	NA	NA	ND(0.0000013) X	NA
PeCDDs (total)	ND(0.0000081) X	ND(0.000017) X	ND(0.000018) X	NA	NA	ND(0.0000079) X	NA
1,2,3,4,7,8-HxCDD	ND(0.0000022)	ND(0.0000012) X	0.0000020 J	NA	NA	ND(0.0000069) X	NA
1,2,3,6,7,8-HxCDD	ND(0.0000044) X	ND(0.0000032) X	0.0000033 J	NA	NA	ND(0.0000011) X	NA
1,2,3,7,8,9-HxCDD	ND(0.0000046) X	ND(0.0000033) X	0.0000033 J	NA	NA	ND(0.0000091) X	NA
HxCDDs (total)	ND(0.000036) X	ND(0.000036) X	ND(0.000037) X	NA	NA	ND(0.000032) X	NA
1,2,3,4,6,7,8-HpCDD	0.000085	0.000069	0.000032	NA	NA	0.000014	NA
HpCDDs (total)	0.00016	0.00013	0.000061	NA	NA	0.000029	NA
OCDD	0.00062	0.00046	0.00029 J	NA	NA	0.00012	NA
Total TEQs (WHO TEFs)	0.000018	0.000011	0.000026	NA	NA	0.000013	NA
<b>Inorganics</b>							
Antimony	ND(0.520)	ND(7.60) J	ND(0.830)	NA	NA	ND(7.20)	NA
Arsenic	5.90	4.40	5.90	NA	NA	1.70	NA
Barium	47.6 J	40.5	34.2 J	NA	NA	15.2 B	NA
Beryllium	0.550 B	0.420 B	0.350 B	NA	NA	ND(0.600)	NA
Cadmium	0.530 B	ND(0.630)	ND(0.610)	NA	NA	0.240 B	NA
Chromium	18.9 J	10.1	9.90 J	NA	NA	5.50	NA
Cobalt	8.60	6.60	5.90 B	NA	NA	3.60 B	NA
Copper	52.0 J	20.4	60.3 J	NA	NA	15.0	NA
Cyanide	ND(0.290)	ND(0.630)	ND(0.610)	NA	NA	ND(0.600)	NA
Lead	128 J	37.7	60.2 J	NA	NA	14.3	NA
Mercury	0.140	0.0890	0.630	NA	NA	0.0250 B	NA
Nickel	18.3	13.4	12.8	NA	NA	7.20	NA
Selenium	ND(0.620)	ND(0.630)	ND(0.610)	NA	NA	ND(0.600)	NA
Silver	ND(1.20)	ND(1.30)	ND(1.20)	NA	NA	ND(1.20)	NA
Sulfide	ND(12.4)	ND(12.6)	ND(12.2)	NA	NA	ND(11.9)	NA
Thallium	ND(1.20)	ND(1.30) J	0.930 B	NA	NA	ND(1.20) J	NA
Tin	ND(8.20)	ND(12.6)	ND(7.80)	NA	NA	ND(4.70)	NA
Vanadium	24.4	12.4	9.20	NA	NA	5.50 B	NA
Zinc	165	78.5 J	130	NA	NA	45.2	NA



**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-2			K10-11-3			
	RAA15-E11 (OFFSET) 3-6 02/27/03	RAA15-YB-1 10-15 01/31/05	RAA15-YB-1 14.2-15 01/31/05	RAA15-A19 0-1 02/24/03	RAA15-A19 1-3 02/24/03	RAA15-A19 3-6 02/24/03	RAA15-A19 4-6 02/24/03
<b>Volatile Organics</b>							
1,1,1,2-Tetrachloroethane	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
1,1,1-Trichloroethane	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
1,1,2,2-Tetrachloroethane	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
1,1,2-Trichloroethane	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
1,1-Dichloroethane	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
1,1-Dichloroethene	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
1,2,3-Trichloropropane	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
1,2-Dibromo-3-chloropropane	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
1,2-Dibromoethane	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
1,2-Dichloroethane	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
1,2-Dichloropropane	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
1,4-Dioxane	NA	NA	ND(0.12) J	ND(1.4) J	ND(0.92) J	NA	ND(1.2) J
2-Butanone	NA	NA	ND(0.012)	ND(0.0068) J	ND(0.0046) J	NA	ND(0.0060) J
2-Chloro-1,3-butadiene	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
2-Chloroethylvinylether	NA	NA	ND(0.0062)	ND(0.014) J	ND(0.0092) J	NA	ND(0.012) J
2-Hexanone	NA	NA	ND(0.012)	ND(0.027) J	ND(0.018) J	NA	ND(0.024) J
3-Chloropropene	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
4-Methyl-2-pentanone	NA	NA	ND(0.012)	ND(0.027)	ND(0.018)	NA	ND(0.024)
Acetone	NA	NA	ND(0.025)	ND(0.027) J	ND(0.018) J	NA	ND(0.024) J
Acetonitrile	NA	NA	ND(0.12) J	ND(0.14) J	ND(0.092) J	NA	ND(0.12) J
Acrolein	NA	NA	ND(0.12) J	ND(0.14) J	ND(0.092) J	NA	ND(0.12) J
Acrylonitrile	NA	NA	ND(0.0062)	ND(0.14)	ND(0.092)	NA	ND(0.12)
Benzene	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	0.016
Bromodichloromethane	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Bromoform	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Bromomethane	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Carbon Disulfide	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Carbon Tetrachloride	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Chlorobenzene	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Chloroethane	NA	NA	ND(0.0062)	ND(0.014)	ND(0.0092)	NA	ND(0.012)
Chloroform	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Chloromethane	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
cis-1,3-Dichloropropene	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Dibromochloromethane	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Dibromomethane	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Dichlorodifluoromethane	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Ethyl Methacrylate	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Ethylbenzene	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	0.00082 J
Iodomethane	NA	NA	ND(0.0062) J	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Isobutanol	NA	NA	ND(0.12) J	ND(0.27) J	ND(0.18) J	NA	ND(0.24) J
Methacrylonitrile	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Methyl Methacrylate	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Methylene Chloride	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Propionitrile	NA	NA	ND(0.012) J	ND(0.014)	ND(0.0092)	NA	ND(0.012)
Styrene	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Tetrachloroethene	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Toluene	NA	NA	ND(0.0062)	ND(0.0068)	0.00077 J	NA	0.0059 J
trans-1,2-Dichloroethene	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
trans-1,3-Dichloropropene	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
trans-1,4-Dichloro-2-butene	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Trichloroethene	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Trichlorofluoromethane	NA	NA	ND(0.0062) J	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Vinyl Acetate	NA	NA	ND(0.0062) J	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
Vinyl Chloride	NA	NA	ND(0.0062)	ND(0.014)	ND(0.0092)	NA	ND(0.012)
Xylenes (total)	NA	NA	ND(0.0062)	ND(0.0068)	ND(0.0046)	NA	ND(0.0060)
<b>Semivolatile Organics</b>							
1,2,4,5-Tetrachlorobenzene	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
1,2,4-Trichlorobenzene	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
1,2-Dichlorobenzene	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
1,2-Diphenylhydrazine	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
1,3,5-Trinitrobenzene	ND(6.9)	ND(0.44)	NA	ND(18)	ND(86)	ND(72)	NA
1,3-Dichlorobenzene	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA

TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS

FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-2			K10-11-3			
	RAA15-E11 (OFFSET) 3-6 02/27/03	RAA15-YB-1 10-15 01/31/05	RAA15-YB-1 14.2-15 01/31/05	RAA15-A19 0-1 02/24/03	RAA15-A19 1-3 02/24/03	RAA15-A19 3-6 02/24/03	RAA15-A19 4-6 02/24/03
<b>Semivolatile Organics (continued)</b>							
1,3-Dinitrobenzene	ND(1.4)	ND(0.87)	NA	ND(3.8)	ND(18)	ND(15)	NA
1,4-Dichlorobenzene	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
1,4-Naphthoquinone	ND(6.9)	ND(0.87)	NA	ND(18)	ND(86)	ND(72)	NA
1-Naphthylamine	ND(1.4)	ND(0.87)	NA	ND(3.8)	ND(18)	ND(15)	NA
2,3,4,6-Tetrachlorophenol	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
2,4,5-Trichlorophenol	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
2,4,6-Trichlorophenol	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
2,4-Dichlorophenol	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
2,4-Dimethylphenol	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
2,4-Dinitrophenol	ND(6.9)	ND(2.2)	NA	ND(18)	ND(86)	ND(72)	NA
2,4-Dinitrotoluene	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
2,6-Dichlorophenol	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
2,6-Dinitrotoluene	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
2-Acetylaminofluorene	ND(2.9)	ND(0.87)	NA	ND(7.6)	ND(36)	ND(30)	NA
2-Chloronaphthalene	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
2-Chlorophenol	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
2-Methylnaphthalene	0.16 J	ND(0.44)	NA	ND(3.8)	9.5 J	13 J	NA
2-Methylphenol	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
2-Naphthylamine	ND(1.4)	ND(0.87)	NA	ND(3.8)	ND(18)	ND(15)	NA
2-Nitroaniline	ND(6.9)	ND(2.2)	NA	ND(18)	ND(86)	ND(72)	NA
2-Nitrophenol	ND(1.4)	ND(0.87)	NA	ND(3.8)	ND(18)	ND(15)	NA
2-Picoline	ND(2.9)	ND(0.44)	NA	ND(7.6)	ND(36)	ND(30)	NA
3&4-Methylphenol	ND(2.9)	ND(0.87)	NA	ND(7.6)	ND(36)	ND(30)	NA
3,3'-Dichlorobenzidine	ND(6.9)	ND(0.87)	NA	ND(18)	ND(86)	ND(72)	NA
3,3'-Dimethylbenzidine	ND(6.9)	ND(0.44)	NA	ND(18)	ND(86)	ND(72)	NA
3-Methylcholanthrene	ND(6.9)	ND(0.87)	NA	ND(18)	ND(86)	ND(72)	NA
3-Nitroaniline	ND(6.9)	ND(2.2)	NA	ND(18)	ND(86)	ND(72)	NA
4,6-Dinitro-2-methylphenol	ND(6.9)	ND(0.44)	NA	ND(18)	ND(86)	ND(72)	NA
4-Aminobiphenyl	ND(6.9)	ND(0.87) J	NA	ND(18)	ND(86)	ND(72)	NA
4-Bromophenyl-phenylether	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
4-Chloro-3-Methylphenol	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
4-Chloroaniline	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
4-Chlorobenzilate	ND(1.4)	ND(0.87)	NA	ND(3.8)	ND(18)	ND(15)	NA
4-Chlorophenyl-phenylether	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
4-Nitroaniline	ND(6.9)	ND(2.2)	NA	ND(18)	ND(86)	ND(72)	NA
4-Nitrophenol	ND(6.9)	ND(2.2)	NA	ND(18)	ND(86)	ND(72)	NA
4-Nitroquinoline-1-oxide	ND(14)	ND(0.87) J	NA	ND(38)	ND(180)	ND(150)	NA
4-Phenylenediamine	ND(29)	ND(0.87)	NA	ND(76)	ND(360)	ND(300)	NA
5-Nitro-o-toluidine	ND(2.9)	ND(0.87)	NA	ND(7.6)	ND(36)	ND(30)	NA
7,12-Dimethylbenz(a)anthracene	ND(2.9)	ND(0.87)	NA	ND(7.6)	ND(36)	ND(30)	NA
a,a'-Dimethylphenethylamine	ND(6.9)	ND(0.87) J	NA	ND(18)	ND(86)	ND(72)	NA
Acenaphthene	0.89 J	ND(0.44)	NA	ND(3.8)	ND(18)	1.6 J	NA
Acenaphthylene	0.21 J	ND(0.44)	NA	2.4 J	44	31	NA
Acetophenone	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
Aniline	ND(1.4)	ND(0.44) J	NA	1.0 J	ND(18)	ND(15)	NA
Anthracene	2.2	ND(0.44)	NA	1.2 J	19	16	NA
Aramite	ND(6.9)	ND(0.87)	NA	ND(18)	ND(86)	ND(72)	NA
Benzidine	ND(14)	ND(0.87) J	NA	ND(38)	ND(180)	ND(150)	NA
Benzo(a)anthracene	4.8	ND(0.44)	NA	6.6	99	52	NA
Benzo(a)pyrene	4.7	ND(0.44)	NA	8.5	110	49	NA
Benzo(b)fluoranthene	4.1	ND(0.44)	NA	8.0	110	40	NA
Benzo(g,h,i)perylene	3.3	ND(0.44)	NA	2.7 J	35	16	NA
Benzo(k)fluoranthene	3.5	ND(0.44)	NA	8.5	75	41	NA
Benzyl Alcohol	ND(1.4)	ND(0.87)	NA	ND(3.8)	ND(18)	ND(15)	NA
bis(2-Chloroethoxy)methane	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
bis(2-Chloroethyl)ether	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
bis(2-Chloroisopropyl)ether	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
bis(2-Ethylhexyl)phthalate	ND(1.4)	ND(0.43)	NA	ND(3.8)	ND(18)	ND(15)	NA
Butylbenzylphthalate	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
Chrysene	5.2	0.048 J	NA	7.1	100	56	NA
Diallate	ND(2.9)	ND(0.87)	NA	ND(7.6)	ND(36)	ND(30)	NA
Dibenzo(a,h)anthracene	1.1 J	ND(0.44)	NA	0.83 J	12 J	5.3 J	NA

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-2			K10-11-3			
	RAA15-E11 (OFFSET) 3-6 02/27/03	RAA15-YB-1 10-15 01/31/05	RAA15-YB-1 14.2-15 01/31/05	RAA15-A19 0-1 02/24/03	RAA15-A19 1-3 02/24/03	RAA15-A19 3-6 02/24/03	RAA15-A19 4-6 02/24/03
<b>Semivolatile Organics (continued)</b>							
Dibenzofuran	0.44 J	ND(0.44)	NA	ND(3.8)	1.8 J	2.3 J	NA
Diethylphthalate	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
Dimethylphthalate	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
Di-n-Butylphthalate	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
Di-n-Octylphthalate	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
Diphenylamine	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
Ethyl Methanesulfonate	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
Fluoranthene	11	0.078 J	NA	14	160	88	NA
Fluorene	0.81 J	ND(0.44)	NA	ND(3.8)	5.0 J	9.3 J	NA
Hexachlorobenzene	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
Hexachlorobutadiene	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
Hexachlorocyclopentadiene	ND(6.9)	ND(0.44)	NA	ND(18)	ND(86)	ND(72)	NA
Hexachloroethane	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
Hexachlorophene	ND(29) J	ND(0.87) J	NA	ND(77) J	ND(360) J	ND(8.6) J	NA
Hexachloropropene	ND(14)	ND(0.44)	NA	ND(38)	ND(180)	ND(150)	NA
Indeno(1,2,3-cd)pyrene	3.4	ND(0.44)	NA	3.4 J	40	17	NA
Isodrin	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
Isophorone	1.3 J	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
Isosafrole	ND(2.9)	ND(0.87)	NA	ND(7.6)	ND(36)	ND(30)	NA
Methapyrilene	ND(6.9)	ND(0.87)	NA	ND(18)	ND(86)	ND(72)	NA
Methyl Methanesulfonate	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
Naphthalene	0.29 J	ND(0.44)	NA	0.33 J	17 J	19	NA
Nitrobenzene	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
N-Nitrosodiethylamine	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
N-Nitrosodimethylamine	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
N-Nitroso-di-n-butylamine	ND(1.4)	ND(0.87)	NA	ND(3.8)	ND(18)	ND(15)	NA
N-Nitroso-di-n-propylamine	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
N-Nitrosodiphenylamine	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
N-Nitrosomethylethylamine	ND(1.4)	ND(0.87)	NA	ND(3.8)	ND(18)	ND(15)	NA
N-Nitrosomorpholine	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
N-Nitrosopiperidine	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
N-Nitrosopyrrolidine	ND(1.4)	ND(0.87)	NA	ND(3.8)	ND(18)	ND(15)	NA
o,o-Triethylphosphorothioate	ND(6.9)	ND(0.44)	NA	ND(18)	ND(86)	ND(72)	NA
o-Toluidine	ND(2.9)	ND(0.44)	NA	ND(7.6)	ND(36)	ND(30)	NA
p-Dimethylaminoazobenzene	ND(2.9)	ND(0.87)	NA	ND(7.6)	ND(36)	ND(30)	NA
Pentachlorobenzene	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
Pentachloroethane	ND(6.9)	ND(0.44)	NA	ND(18)	ND(86)	ND(72)	NA
Pentachloronitrobenzene	ND(6.9)	ND(0.87)	NA	ND(18)	ND(86)	ND(72)	NA
Pentachlorophenol	ND(6.9)	ND(2.2)	NA	ND(18)	ND(86)	ND(72)	NA
Phenacetin	ND(2.9)	ND(0.87)	NA	ND(7.6)	ND(36)	ND(30)	NA
Phenanthrene	8.9	ND(0.44)	NA	3.8	53	85	NA
Phenol	ND(1.4)	ND(0.44)	NA	ND(3.8)	ND(18)	ND(15)	NA
Pronamide	ND(2.9)	ND(0.44)	NA	ND(7.6)	ND(36)	ND(30)	NA
Pyrene	9.4	0.085 J	NA	12	220	99	NA
Pyridine	ND(2.9)	ND(0.44)	NA	ND(7.6)	ND(36)	ND(30)	NA
Safrole	ND(2.9)	ND(0.44) J	NA	ND(7.6)	ND(36)	ND(30)	NA
Thionazin	ND(6.9)	ND(0.44)	NA	ND(18)	ND(86)	ND(72)	NA
<b>Furans</b>							
2,3,7,8-TCDF	ND(0.000012) X	0.000011 JY	NA	ND(0.000033)	0.000012 J	ND(0.0000072) X	NA
TCDFs (total)	ND(0.00028) X	0.0000011	NA	ND(0.00050) X	ND(0.00011) X	ND(0.000020) X	NA
1,2,3,7,8-PeCDF	0.0000044 J	ND(0.00000048)	NA	0.000011	0.0000036 J	ND(0.00000092)	NA
2,3,4,7,8-PeCDF	ND(0.0000076) X	ND(0.00000045)	NA	0.000018	0.0000050 J	0.0000021 J	NA
PeCDFs (total)	ND(0.00071) X	ND(0.00000048)	NA	ND(0.0011) X	ND(0.00020) X	ND(0.0000082) X	NA
1,2,3,4,7,8-HxCDF	0.0000084 J	ND(0.00000037)	NA	0.000024	ND(0.000030) X	ND(0.00000090)	NA
1,2,3,6,7,8-HxCDF	ND(0.000093) X	ND(0.00000035)	NA	ND(0.00016) X	ND(0.0000039) X	ND(0.00000083)	NA
1,2,3,7,8,9-HxCDF	ND(0.00000051)	ND(0.00000044)	NA	0.0000067 J	ND(0.0000016) X	ND(0.0000011)	NA
2,3,4,6,7,8-HxCDF	0.0000081 J	ND(0.00000039)	NA	0.000014	0.0000036 J	ND(0.00000095)	NA
HxCDFs (total)	ND(0.00051) X	ND(0.00000044)	NA	ND(0.00090) X	ND(0.00017) X	ND(0.0000015) X	NA
1,2,3,4,6,7,8-HpCDF	0.000025 J	ND(0.00000028)	NA	0.000054	0.000014 J	0.0000031 J	NA
1,2,3,4,7,8,9-HpCDF	0.0000038 J	ND(0.00000032)	NA	0.0000072	0.0000071 J	ND(0.0000018) J	NA
HpCDFs (total)	0.000065	ND(0.00000032)	NA	0.00015	0.000040 J	0.0000031 J	NA
OCDF	0.000025 J	ND(0.00000058)	NA	0.000053 J	0.000013 J	ND(0.0000021) J	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-2			K10-11-3			
	RAA15-E11 (OFFSET)	RAA15-YB-1	RAA15-YB-1	RAA15-A19	RAA15-A19	RAA15-A19	RAA15-A19
	3-6 02/27/03	10-15 01/31/05	14.2-15 01/31/05	0-1 02/24/03	1-3 02/24/03	3-6 02/24/03	4-6 02/24/03
<b>Dioxins</b>							
2,3,7,8-TCDD	ND(0.0000011)	ND(0.0000037)	NA	ND(0.0000022)	ND(0.0000026)	ND(0.0000019)	NA
TCDDs (total)	ND(0.0000011)	ND(0.0000037)	NA	ND(0.0000022)	ND(0.0000026)	ND(0.0000019)	NA
1,2,3,7,8-PeCDD	ND(0.0000014) X	ND(0.0000066)	NA	ND(0.0000018) X	ND(0.0000014) X	ND(0.0000011)	NA
PeCDDs (total)	ND(0.0000011) X	ND(0.0000066)	NA	ND(0.0000012) X	ND(0.0000035) X	ND(0.0000011)	NA
1,2,3,4,7,8-HxCDD	ND(0.0000076) X	ND(0.0000054)	NA	ND(0.0000016) X	ND(0.0000030) X	ND(0.0000015)	NA
1,2,3,6,7,8-HxCDD	0.0000026 J	ND(0.0000048)	NA	ND(0.0000043) X	ND(0.0000023) X	ND(0.0000014)	NA
1,2,3,7,8,9-HxCDD	ND(0.0000020) X	ND(0.0000049)	NA	0.0000043 J	ND(0.0000018)	ND(0.0000014)	NA
HxCDDs (total)	ND(0.0000026) X	ND(0.0000054)	NA	ND(0.0000046) X	ND(0.0000016) X	ND(0.0000014)	NA
1,2,3,4,6,7,8-HpCDD	0.0000025 J	ND(0.0000058)	NA	0.0000050	0.0000084 J	ND(0.0000018)	NA
HpCDDs (total)	0.0000047 J	ND(0.0000058)	NA	0.0000096	ND(0.0000016) X	ND(0.0000018)	NA
OCDD	0.00021	ND(0.0000040)	NA	0.00035 J	0.000041 J	0.000010 J	NA
Total TEQs (WHO TEFs)	0.000011	0.0000091	NA	0.000027	0.0000087	0.0000034	NA
<b>Inorganics</b>							
Antimony	ND(6.50) J	ND(6.00)	NA	ND(6.90)	0.450 B	ND(6.80)	NA
Arsenic	7.40	4.30	NA	4.50	5.00	4.50	NA
Barium	54.1	43.0	NA	34.5	19.8 B	36.4	NA
Beryllium	0.470 B	0.370 B	NA	0.280 B	0.260 B	0.360 B	NA
Cadmium	ND(0.540)	1.20	NA	1.00	0.580	0.470 B	NA
Chromium	11.3	20.0	NA	9.90 J	6.80 J	12.1 J	NA
Cobalt	7.70	9.20	NA	6.10	6.20	4.90 B	NA
Copper	30.5	20.0	NA	33.3 J	32.5 J	28.1 J	NA
Cyanide	0.220 B	0.0950 B	NA	1.20	0.390 B	0.460 B	NA
Lead	79.5	15.0	NA	173 J	18.8 J	22.3 J	NA
Mercury	0.270	0.0380 B	NA	0.120	0.140	0.150	NA
Nickel	15.5	17.0	NA	13.2 J	12.4 J	11.0 J	NA
Selenium	ND(0.540)	ND(1.10) J	NA	ND(0.580)	ND(0.540)	0.440 B	NA
Silver	ND(1.10)	ND(1.00)	NA	ND(1.20)	ND(1.10)	ND(1.10)	NA
Sulfide	ND(10.8)	160	NA	ND(11.5)	ND(10.8)	ND(11.2)	NA
Thallium	ND(1.10) J	4.30	NA	ND(1.20) J	ND(1.10) J	ND(1.10) J	NA
Tin	ND(10.8)	ND(10.0)	NA	ND(4.70)	ND(3.90)	ND(3.80)	NA
Vanadium	13.9	14.0	NA	13.8 J	9.60 J	11.0 J	NA
Zinc	93.0 J	59.0	NA	132 J	43.0 J	44.8 J	NA

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-3						
	RAA15-A19 10-12 02/24/03	RAA15-A19 10-15 02/24/03	RAA15-A19NE 1-3 05/04/04	RAA15-A19NE 3-6 05/04/04	RAA15-A19NW 1-3 05/04/04	RAA15-A19NW 3-6 05/04/04	RAA15-A19SE 1-3 05/04/04
<b>Volatile Organics</b>							
1,1,1,2-Tetrachloroethane	ND(0.0061)	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ND(0.0061)	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	ND(0.0061)	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	ND(0.0061)	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ND(0.0061)	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	ND(0.0061)	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ND(0.0061)	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ND(0.0061)	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	ND(0.0061)	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	ND(0.0061)	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ND(0.0061)	NA	NA	NA	NA	NA	NA
1,4-Dioxane	ND(1.2) J	NA	NA	NA	NA	NA	NA
2-Butanone	ND(0.0061) J	NA	NA	NA	NA	NA	NA
2-Chloro-1,3-butadiene	ND(0.0061)	NA	NA	NA	NA	NA	NA
2-Chloroethylvinylether	ND(0.012) J	NA	NA	NA	NA	NA	NA
2-Hexanone	ND(0.024) J	NA	NA	NA	NA	NA	NA
3-Chloropropene	ND(0.0061)	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ND(0.024)	NA	NA	NA	NA	NA	NA
Acetone	ND(0.024) J	NA	NA	NA	NA	NA	NA
Acetonitrile	ND(0.12) J	NA	NA	NA	NA	NA	NA
Acrolein	ND(0.12) J	NA	NA	NA	NA	NA	NA
Acrylonitrile	ND(0.12)	NA	NA	NA	NA	NA	NA
Benzene	ND(0.0061)	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ND(0.0061)	NA	NA	NA	NA	NA	NA
Bromoform	ND(0.0061)	NA	NA	NA	NA	NA	NA
Bromomethane	ND(0.0061)	NA	NA	NA	NA	NA	NA
Carbon Disulfide	ND(0.0061)	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ND(0.0061)	NA	NA	NA	NA	NA	NA
Chlorobenzene	ND(0.0061)	NA	NA	NA	NA	NA	NA
Chloroethane	ND(0.012)	NA	NA	NA	NA	NA	NA
Chloroform	ND(0.0061)	NA	NA	NA	NA	NA	NA
Chloromethane	ND(0.0061)	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	ND(0.0061)	NA	NA	NA	NA	NA	NA
Dibromochloromethane	ND(0.0061)	NA	NA	NA	NA	NA	NA
Dibromomethane	ND(0.0061)	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ND(0.0061)	NA	NA	NA	NA	NA	NA
Ethyl Methacrylate	ND(0.0061)	NA	NA	NA	NA	NA	NA
Ethylbenzene	ND(0.0061)	NA	NA	NA	NA	NA	NA
Iodomethane	ND(0.0061)	NA	NA	NA	NA	NA	NA
Isobutanol	ND(0.24) J	NA	NA	NA	NA	NA	NA
Methacrylonitrile	ND(0.0061)	NA	NA	NA	NA	NA	NA
Methyl Methacrylate	ND(0.0061)	NA	NA	NA	NA	NA	NA
Methylene Chloride	ND(0.0061)	NA	NA	NA	NA	NA	NA
Propionitrile	ND(0.012)	NA	NA	NA	NA	NA	NA
Styrene	ND(0.0061)	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ND(0.0061)	NA	NA	NA	NA	NA	NA
Toluene	0.0015 J	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	ND(0.0061)	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	ND(0.0061)	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	ND(0.0061)	NA	NA	NA	NA	NA	NA
Trichloroethene	ND(0.0061)	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	ND(0.0061)	NA	NA	NA	NA	NA	NA
Vinyl Acetate	ND(0.0061)	NA	NA	NA	NA	NA	NA
Vinyl Chloride	ND(0.012)	NA	NA	NA	NA	NA	NA
Xylenes (total)	ND(0.0061)	NA	NA	NA	NA	NA	NA
<b>Semivolatile Organics</b>							
1,2,4,5-Tetrachlorobenzene	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
1,2,4-Trichlorobenzene	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
1,2-Dichlorobenzene	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
1,2-Diphenylhydrazine	NA	ND(0.42)	ND(0.38) J	ND(0.37) J	ND(0.38) J [ND(0.37) J]	ND(0.38) J	ND(0.41) J
1,3,5-Trinitrobenzene	NA	ND(2.0)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
1,3-Dichlorobenzene	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-3						
	RAA15-A19 10-12 02/24/03	RAA15-A19 10-15 02/24/03	RAA15-A19NE 1-3 05/04/04	RAA15-A19NE 3-6 05/04/04	RAA15-A19NW 1-3 05/04/04	RAA15-A19NW 3-6 05/04/04	RAA15-A19SE 1-3 05/04/04
<b>Semivolatile Organics (continued)</b>							
1,3-Dinitrobenzene	NA	ND(0.42)	ND(0.77) J	ND(0.74) J	ND(0.76) J [ND(0.75) J]	ND(0.76) J	ND(0.82) J
1,4-Dichlorobenzene	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
1,4-Naphthoquinone	NA	ND(2.0)	ND(0.77) J	ND(0.74) J	ND(0.76) J [ND(0.75) J]	ND(0.76) J	ND(0.82) J
1-Naphthylamine	NA	ND(0.42)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
2,3,4,6-Tetrachlorophenol	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
2,4,5-Trichlorophenol	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
2,4,6-Trichlorophenol	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
2,4-Dichlorophenol	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
2,4-Dimethylphenol	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
2,4-Dinitrophenol	NA	ND(2.0)	ND(1.9)	ND(1.9)	ND(1.9) [ND(1.9)]	ND(1.9)	ND(2.1)
2,4-Dinitrotoluene	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
2,6-Dichlorophenol	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
2,6-Dinitrotoluene	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
2-Acetylaminofluorene	NA	ND(0.84)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
2-Chloronaphthalene	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
2-Chlorophenol	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
2-Methylnaphthalene	NA	ND(0.42)	ND(0.38)	6.7	ND(0.38) [ND(0.37)]	2.3	ND(0.41)
2-Methylphenol	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
2-Naphthylamine	NA	ND(0.42)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
2-Nitroaniline	NA	ND(2.0)	ND(1.9) J	ND(1.9) J	ND(1.9) J [ND(1.9) J]	ND(1.9) J	ND(2.1) J
2-Nitrophenol	NA	ND(0.42)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
2-Picoline	NA	ND(0.84)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
3&4-Methylphenol	NA	ND(0.84)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
3,3'-Dichlorobenzidine	NA	ND(2.0)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
3,3'-Dimethylbenzidine	NA	ND(2.0)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
3-Methylcholanthrene	NA	ND(2.0)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
3-Nitroaniline	NA	ND(2.0)	ND(1.9)	ND(1.9)	ND(1.9) [ND(1.9)]	ND(1.9)	ND(2.1)
4,6-Dinitro-2-methylphenol	NA	ND(2.0)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
4-Aminobiphenyl	NA	ND(2.0)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
4-Bromophenyl-phenylether	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
4-Chloro-3-Methylphenol	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
4-Chloroaniline	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
4-Chlorobenzilate	NA	ND(0.42)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
4-Chlorophenyl-phenylether	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
4-Nitroaniline	NA	ND(2.0)	ND(1.9) J	ND(1.9) J	ND(1.9) J [ND(1.9) J]	ND(1.9) J	ND(2.1) J
4-Nitrophenol	NA	ND(2.0)	ND(1.9) J	ND(1.9) J	ND(1.9) J [ND(1.9) J]	ND(1.9) J	ND(2.1) J
4-Nitroquinoline-1-oxide	NA	ND(4.2)	ND(0.77) J	ND(0.74) J	ND(0.76) J [ND(0.75) J]	ND(0.76) J	ND(0.82) J
4-Phenylenediamine	NA	ND(8.4)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
5-Nitro-o-toluidine	NA	ND(0.84)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
7,12-Dimethylbenz(a)anthracene	NA	ND(0.84)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
a,a-Dimethylphenethylamine	NA	ND(2.0)	ND(0.77) J	ND(0.74) J	ND(0.76) J [ND(0.75) J]	ND(0.76) J	ND(0.82) J
Acenaphthene	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	0.23 J
Acenaphthylene	NA	ND(0.42)	7.1	12	3.1 [5.2]	7.2	0.52
Acetophenone	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Aniline	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Anthracene	NA	ND(0.42)	4.4	7.3	3.0 [5.3]	3.4	0.63
Aramite	NA	ND(2.0)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
Benzidine	NA	ND(4.2)	ND(0.77) J	ND(0.74) J	ND(0.76) J [ND(0.75) J]	ND(0.76) J	ND(0.82) J
Benzo(a)anthracene	NA	ND(0.42)	16	13	7.9 [13]	9.8	0.81
Benzo(a)pyrene	NA	ND(0.42)	14	9.7	5.8 [10]	6.8	0.56
Benzo(b)fluoranthene	NA	ND(0.42)	10	6.3	4.1 [8.1]	4.6	0.35 J
Benzo(g,h,i)perylene	NA	ND(0.42)	9.0	6.9	4.0 [7.1]	4.7	0.38 J
Benzo(k)fluoranthene	NA	ND(0.42)	12	8.3	5.8 [10]	5.4	0.45
Benzyl Alcohol	NA	ND(0.42)	ND(0.77) J	ND(0.74) J	ND(0.76) J [ND(0.75) J]	ND(0.76) J	ND(0.82) J
bis(2-Chloroethoxy)methane	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
bis(2-Chloroethyl)ether	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
bis(2-Chloroisopropyl)ether	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
bis(2-Ethylhexyl)phthalate	NA	ND(0.42)	ND(0.38)	ND(0.36)	ND(0.37) [ND(0.37)]	ND(0.38)	ND(0.41)
Butylbenzylphthalate	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Chrysene	NA	ND(0.42)	16	14	6.7 [13]	11	0.92
Diallate	NA	ND(0.84)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
Dibenzo(a,h)anthracene	NA	ND(0.42)	2.7	ND(0.37)	1.0 [2.0]	1.2	ND(0.41)

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-3						
	RAA15-A19 10-12 02/24/03	RAA15-A19 10-15 02/24/03	RAA15-A19NE 1-3 05/04/04	RAA15-A19NE 3-6 05/04/04	RAA15-A19NW 1-3 05/04/04	RAA15-A19NW 3-6 05/04/04	RAA15-A19SE 1-3 05/04/04
<b>Semivolatile Organics (continued)</b>							
Dibenzofuran	NA	ND(0.42)	0.44	0.58	0.66 [1.1]	0.26 J	0.10 J
Diethylphthalate	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Dimethylphthalate	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Di-n-Butylphthalate	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Di-n-Octylphthalate	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Diphenylamine	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Ethyl Methanesulfonate	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Fluoranthene	NA	ND(0.42)	30	19	16 [29]	14	1.7
Fluorene	NA	ND(0.42)	0.72	3.8	0.76 [1.4]	1.4	0.23 J
Hexachlorobenzene	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Hexachlorobutadiene	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Hexachlorocyclopentadiene	NA	ND(2.0)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Hexachloroethane	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Hexachlorophene	NA	ND(300) J	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
Hexachloropropene	NA	ND(4.2)	ND(0.38) J	ND(0.37) J	ND(0.38) J [ND(0.37) J]	ND(0.38) J	ND(0.41) J
Indeno(1,2,3-cd)pyrene	NA	ND(0.42)	8.2	5.5	3.6 [6.6]	3.6	0.25 J
Isodrin	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Isophorone	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Isosafrole	NA	ND(0.84)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
Methapyrilene	NA	ND(2.0)	ND(0.77) J	ND(0.74) J	ND(0.76) J [ND(0.75) J]	ND(0.76) J	ND(0.82) J
Methyl Methanesulfonate	NA	ND(0.42)	ND(0.38) J	ND(0.37) J	ND(0.38) J [ND(0.37) J]	ND(0.38) J	ND(0.41) J
Naphthalene	NA	ND(0.42)	3.3	8.8	0.99 [1.9]	4.8	0.24 J
Nitrobenzene	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
N-Nitrosodiethylamine	NA	ND(0.42)	ND(0.38) J	ND(0.37) J	ND(0.38) J [ND(0.37) J]	ND(0.38) J	ND(0.41) J
N-Nitrosodimethylamine	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
N-Nitroso-di-n-butylamine	NA	ND(0.42)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
N-Nitroso-di-n-propylamine	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
N-Nitrosodiphenylamine	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
N-Nitrosomethylethylamine	NA	ND(0.42)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
N-Nitrosomorpholine	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
N-Nitrosopiperidine	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
N-Nitrosopyrrolidine	NA	ND(0.42)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
o,o,o-Triethylphosphorothioate	NA	ND(2.0)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
o-Toluidine	NA	ND(0.84)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
p-Dimethylaminoazobenzene	NA	ND(0.84)	ND(0.77)	ND(0.74)	ND(0.76) [ND(0.75)]	ND(0.76)	ND(0.82)
Pentachlorobenzene	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Pentachloroethane	NA	ND(2.0)	ND(0.38) J	ND(0.37) J	ND(0.38) J [ND(0.37) J]	ND(0.38) J	ND(0.41) J
Pentachloronitrobenzene	NA	ND(2.0)	ND(0.77) J	ND(0.74) J	ND(0.76) J [ND(0.75) J]	ND(0.76) J	ND(0.82) J
Pentachlorophenol	NA	ND(2.0)	ND(1.9)	ND(1.9)	ND(1.9) [ND(1.9)]	ND(1.9)	ND(2.1)
Phenacetin	NA	ND(0.84)	ND(0.77) J	ND(0.74) J	ND(0.76) J [ND(0.75) J]	ND(0.76) J	ND(0.82) J
Phenanthrene	NA	ND(0.42)	7.4	21	8.3 [12]	10	1.7
Phenol	NA	ND(0.42)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Pronamide	NA	ND(0.84)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Pyrene	NA	ND(0.42)	33	35	17 [28]	24	1.8
Pyridine	NA	ND(0.84)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Safrole	NA	ND(0.84)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
Thionazin	NA	ND(2.0)	ND(0.38)	ND(0.37)	ND(0.38) [ND(0.37)]	ND(0.38)	ND(0.41)
<b>Furans</b>							
2,3,7,8-TCDF	NA	ND(0.00000023)	NA	NA	NA	NA	NA
TCDFs (total)	NA	ND(0.00000023)	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	NA	ND(0.00000016)	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	NA	ND(0.00000015)	NA	NA	NA	NA	NA
PeCDFs (total)	NA	ND(0.00000016)	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	NA	ND(0.00000013)	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	NA	ND(0.00000012)	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	NA	ND(0.00000016)	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	NA	ND(0.00000014)	NA	NA	NA	NA	NA
HxCDFs (total)	NA	ND(0.00000018) X	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	NA	ND(0.00000022)	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	NA	ND(0.00000027)	NA	NA	NA	NA	NA
HpCDFs (total)	NA	ND(0.00000024)	NA	NA	NA	NA	NA
OCDF	NA	ND(0.00000052) J	NA	NA	NA	NA	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-3						
	RAA15-A19 10-12 02/24/03	RAA15-A19 10-15 02/24/03	RAA15-A19NE 1-3 05/04/04	RAA15-A19NE 3-6 05/04/04	RAA15-A19NW 1-3 05/04/04	RAA15-A19NW 3-6 05/04/04	RAA15-A19SE 1-3 05/04/04
<b>Dioxins</b>							
2,3,7,8-TCDD	NA	ND(0.00000033)	NA	NA	NA	NA	NA
TCDDs (total)	NA	ND(0.00000033)	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	NA	ND(0.00000021)	NA	NA	NA	NA	NA
PeCDDs (total)	NA	ND(0.00000021)	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	NA	ND(0.00000025)	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	NA	ND(0.00000024)	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	NA	ND(0.00000025)	NA	NA	NA	NA	NA
HxCDDs (total)	NA	ND(0.00000025)	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDD	NA	ND(0.00000035)	NA	NA	NA	NA	NA
HpCDDs (total)	NA	ND(0.00000035)	NA	NA	NA	NA	NA
OCDD	NA	0.0000013 J	NA	NA	NA	NA	NA
Total TEQs (WHO TEFs)	NA	0.00000039	NA	NA	NA	NA	NA
<b>Inorganics</b>							
Antimony	NA	ND(7.70)	NA	NA	NA	NA	NA
Arsenic	NA	2.20	NA	NA	NA	NA	NA
Barium	NA	32.3	NA	NA	NA	NA	NA
Beryllium	NA	0.380 B	NA	NA	NA	NA	NA
Cadmium	NA	0.810	NA	NA	NA	NA	NA
Chromium	NA	9.90 J	NA	NA	NA	NA	NA
Cobalt	NA	9.40	NA	NA	NA	NA	NA
Copper	NA	17.2 J	NA	NA	NA	NA	NA
Cyanide	NA	ND(0.640)	NA	NA	NA	NA	NA
Lead	NA	8.20 J	NA	NA	NA	NA	NA
Mercury	NA	ND(0.0430)	NA	NA	NA	NA	NA
Nickel	NA	17.1 J	NA	NA	NA	NA	NA
Selenium	NA	ND(0.640)	NA	NA	NA	NA	NA
Silver	NA	ND(1.30)	NA	NA	NA	NA	NA
Sulfide	NA	ND(12.8)	NA	NA	NA	NA	NA
Thallium	NA	0.920 J	NA	NA	NA	NA	NA
Tin	NA	ND(3.90)	NA	NA	NA	NA	NA
Vanadium	NA	11.8 J	NA	NA	NA	NA	NA
Zinc	NA	58.7 J	NA	NA	NA	NA	NA



**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parameter	Parcel ID:	K10-11-3				
	Sample ID:	RAA15-A19SE	RAA15-A19SW	RAA15-A19SW	RAA15-A19SW	RAA15-A19SW
	Sample Depth(Feet): Date Collected:	3-6 05/04/04	0-1 05/03/04	1-3 05/03/04	3-6 05/03/04	6-8 05/03/04
<b>Volatile Organics</b>						
1,1,1,2-Tetrachloroethane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
1,1,1-Trichloroethane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
1,1,2,2-Tetrachloroethane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
1,1,2-Trichloroethane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
1,1-Dichloroethane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
1,1-Dichloroethene	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
1,2,3-Trichloropropane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
1,2-Dibromo-3-chloropropane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
1,2-Dibromoethane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
1,2-Dichloroethane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
1,2-Dichloropropane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
1,4-Dioxane	NA	ND(0.13) J	ND(0.13) J	NA	ND(0.14) J	
2-Butanone	NA	ND(0.013)	ND(0.013)	NA	ND(0.014)	
2-Chloro-1,3-butadiene	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
2-Chloroethylvinylether	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
2-Hexanone	NA	ND(0.013)	ND(0.013)	NA	ND(0.014)	
3-Chloropropene	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
4-Methyl-2-pentanone	NA	ND(0.013)	ND(0.013)	NA	ND(0.014)	
Acetone	NA	ND(0.026)	ND(0.026)	NA	0.018 J	
Acetonitrile	NA	ND(0.13) J	ND(0.13) J	NA	ND(0.14) J	
Acrolein	NA	ND(0.13) J	ND(0.13) J	NA	ND(0.14) J	
Acrylonitrile	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Benzene	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Bromodichloromethane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Bromoform	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Bromomethane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Carbon Disulfide	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Carbon Tetrachloride	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Chlorobenzene	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Chloroethane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Chloroform	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Chloromethane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
cis-1,3-Dichloropropene	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Dibromochloromethane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Dibromomethane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Dichlorodifluoromethane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Ethyl Methacrylate	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Ethylbenzene	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Iodomethane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Isobutanol	NA	ND(0.13) J	ND(0.13) J	NA	ND(0.14) J	
Methacrylonitrile	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Methyl Methacrylate	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Methylene Chloride	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Propionitrile	NA	ND(0.013) J	ND(0.013) J	NA	ND(0.014) J	
Styrene	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Tetrachloroethene	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Toluene	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
trans-1,2-Dichloroethene	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
trans-1,3-Dichloropropene	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
trans-1,4-Dichloro-2-butene	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Trichloroethene	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Trichlorofluoromethane	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Vinyl Acetate	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Vinyl Chloride	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
Xylenes (total)	NA	ND(0.0066)	ND(0.0065)	NA	ND(0.0068)	
<b>Semivolatile Organics</b>						
1,2,4,5-Tetrachlorobenzene	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA	
1,2,4-Trichlorobenzene	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA	
1,2-Dichlorobenzene	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA	
1,2-Diphenylhydrazine	ND(0.48) J	ND(0.44) J	ND(0.43) J [ND(0.45) J]	ND(0.98) J	NA	
1,3,5-Trinitrobenzene	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA	
1,3-Dichlorobenzene	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA	

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	K10-11-3				
	RAA15-A19SE 3-6 05/04/04	RAA15-A19SW 0-1 05/03/04	RAA15-A19SW 1-3 05/03/04	RAA15-A19SW 3-6 05/03/04	RAA15-A19SW 6-8 05/03/04
<b>Semivolatile Organics (continued)</b>					
1,3-Dinitrobenzene	ND(0.96) J	ND(0.88) J	ND(0.87) J [ND(0.90) J]	ND(1.0) J	NA
1,4-Dichlorobenzene	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
1,4-Naphthoquinone	ND(0.96) J	ND(0.88) J	ND(0.87) J [ND(0.90) J]	ND(1.0) J	NA
1-Naphthylamine	ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(1.0)	NA
2,3,4,6-Tetrachlorophenol	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
2,4,5-Trichlorophenol	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
2,4,6-Trichlorophenol	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
2,4-Dichlorophenol	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
2,4-Dimethylphenol	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
2,4-Dinitrophenol	ND(2.4)	ND(2.2)	ND(2.2) [ND(2.3)]	ND(4.9)	NA
2,4-Dinitrotoluene	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
2,6-Dichlorophenol	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
2,6-Dinitrotoluene	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
2-Acetylaminofluorene	ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(1.0)	NA
2-Chloronaphthalene	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
2-Chlorophenol	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
2-Methylnaphthalene	ND(0.48)	0.25 J	ND(0.43) [ND(0.45)]	ND(0.98)	NA
2-Methylphenol	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
2-Naphthylamine	ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(1.0)	NA
2-Nitroaniline	ND(2.4) J	ND(2.2) J	ND(2.2) J [ND(2.3) J]	ND(4.9) J	NA
2-Nitrophenol	ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(1.0)	NA
2-Picoline	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
3&4-Methylphenol	ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(1.0)	NA
3,3'-Dichlorobenzidine	ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(2.0)	NA
3,3'-Dimethylbenzidine	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
3-Methylcholanthrene	ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(1.0)	NA
3-Nitroaniline	ND(2.4)	ND(2.2)	ND(2.2) [ND(2.3)]	ND(4.9)	NA
4,6-Dinitro-2-methylphenol	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
4-Aminobiphenyl	ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(1.0)	NA
4-Bromophenyl-phenylether	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
4-Chloro-3-Methylphenol	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
4-Chloroaniline	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
4-Chlorobenzilate	ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(1.0)	NA
4-Chlorophenyl-phenylether	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
4-Nitroaniline	ND(2.4) J	ND(2.2) J	ND(2.2) J [ND(2.3) J]	ND(2.6) J	NA
4-Nitrophenol	ND(2.4) J	ND(2.2) J	ND(2.2) J [ND(2.3) J]	ND(4.9) J	NA
4-Nitroquinoline-1-oxide	ND(0.96) J	ND(0.88) J	ND(0.87) J [ND(0.90) J]	ND(1.0) J	NA
4-Phenylenediamine	ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(1.0)	NA
5-Nitro-o-toluidine	ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(1.0)	NA
7,12-Dimethylbenz(a)anthracene	ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(1.0)	NA
a,a'-Dimethylphenethylamine	ND(0.96) J	ND(0.88) J	ND(0.87) J [ND(0.90) J]	ND(1.0) J	NA
Acenaphthene	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Acenaphthylene	ND(0.48)	0.76	0.75 [0.37 J]	ND(0.98)	NA
Acetophenone	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Aniline	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Anthracene	ND(0.48)	0.52	0.33 J [0.19 J]	ND(0.98)	NA
Aramite	ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(1.0)	NA
Benzidine	ND(0.96) J	ND(0.88) J	ND(0.87) J [ND(0.90) J]	ND(2.0) J	NA
Benzo(a)anthracene	ND(0.48)	1.2	0.49 [0.29 J]	ND(0.98)	NA
Benzo(a)pyrene	ND(0.48)	0.92	0.37 J [0.20 J]	0.20 J	NA
Benzo(b)fluoranthene	ND(0.48)	0.87	0.24 J [0.12 J]	ND(0.98)	NA
Benzo(g,h,i)perylene	ND(0.48)	0.74	0.32 J [0.17 J]	ND(0.98)	NA
Benzo(k)fluoranthene	ND(0.48)	1.1	0.32 J [0.18 J]	ND(0.98)	NA
Benzyl Alcohol	ND(0.96) J	ND(0.88) J	ND(0.87) J [ND(0.90) J]	ND(2.0) J	NA
bis(2-Chloroethoxy)methane	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
bis(2-Chloroethyl)ether	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
bis(2-Chloroisopropyl)ether	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
bis(2-Ethylhexyl)phthalate	ND(0.47)	0.14 J	ND(0.43) [ND(0.45)]	ND(0.51)	NA
Butylbenzylphthalate	ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Chrysene	ND(0.48)	1.6	0.58 [0.36 J]	ND(0.98)	NA
Diallate	ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(1.0)	NA
Dibenzo(a,h)anthracene	ND(0.48)	0.15 J	ND(0.43) [ND(0.45)]	ND(0.98)	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:		K10-11-3			
	Sample ID:	RAA15-A19SE	RAA15-A19SW	RAA15-A19SW	RAA15-A19SW	RAA15-A19SW
	Sample Depth(Feet): Date Collected:	3-6 05/04/04	0-1 05/03/04	1-3 05/03/04	3-6 05/03/04	6-8 05/03/04
<b>Semivolatile Organics (continued)</b>						
Dibenzofuran		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Diethylphthalate		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Dimethylphthalate		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Di-n-Butylphthalate		ND(0.48)	0.11 J	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Di-n-Octylphthalate		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Diphenylamine		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Ethyl Methanesulfonate		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Fluoranthene		ND(0.48)	2.7	0.74 [0.50]	ND(0.98)	NA
Fluorene		ND(0.48)	0.13 J	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Hexachlorobenzene		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Hexachlorobutadiene		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Hexachlorocyclopentadiene		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Hexachloroethane		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Hexachlorophene		ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(2.0)	NA
Hexachloropropene		ND(0.48) J	ND(0.44) J	ND(0.43) J [ND(0.45) J]	ND(0.98) J	NA
Indeno(1,2,3-cd)pyrene		ND(0.48)	0.60	0.22 J [0.097 J]	ND(0.98)	NA
Isodrin		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Isophorone		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Isosafrole		ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(1.0)	NA
Methapyrilene		ND(0.96) J	ND(0.88) J	ND(0.87) J [ND(0.90) J]	ND(1.0) J	NA
Methyl Methanesulfonate		ND(0.48) J	ND(0.44) J	ND(0.43) J [ND(0.45) J]	ND(0.98) J	NA
Naphthalene		ND(0.48)	0.45	0.71 [0.27 J]	ND(0.98)	NA
Nitrobenzene		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
N-Nitrosodiethylamine		ND(0.48) J	ND(0.44) J	ND(0.43) J [ND(0.45) J]	ND(0.98) J	NA
N-Nitrosodimethylamine		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
N-Nitroso-di-n-butylamine		ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(1.0)	NA
N-Nitroso-di-n-propylamine		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
N-Nitrosodiphenylamine		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
N-Nitrosomethylethylamine		ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(1.0)	NA
N-Nitrosomorpholine		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
N-Nitrosopiperidine		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
N-Nitrosopyrrolidine		ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(1.0)	NA
o,o,o-Triethylphosphorothioate		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
o-Toluidine		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
p-Dimethylaminoazobenzene		ND(0.96)	ND(0.88)	ND(0.87) [ND(0.90)]	ND(1.0)	NA
Pentachlorobenzene		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Pentachloroethane		ND(0.48) J	ND(0.44) J	ND(0.43) J [ND(0.45) J]	ND(0.98) J	NA
Pentachloronitrobenzene		ND(0.96) J	ND(0.88) J	ND(0.87) J [ND(0.90) J]	ND(1.0) J	NA
Pentachlorophenol		ND(2.4)	ND(2.2)	ND(2.2) [ND(2.3)]	ND(4.9)	NA
Phenacetin		ND(0.96) J	ND(0.88) J	ND(0.87) J [ND(0.90) J]	ND(1.0) J	NA
Phenanthrene		ND(0.48)	1.1	0.56 [0.50]	ND(0.98)	NA
Phenol		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Pronamide		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Pyrene		ND(0.48)	2.7	1.1 [0.72]	ND(0.98)	NA
Pyridine		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Safrole		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
Thionazin		ND(0.48)	ND(0.44)	ND(0.43) [ND(0.45)]	ND(0.98)	NA
<b>Furans</b>						
2,3,7,8-TCDF		NA	0.000040 Y	0.0000095 Y [0.0000055 Y]	NA	NA
TCDFs (total)		NA	0.00053 QI	0.00011 Q [0.000051 Q]	NA	NA
1,2,3,7,8-PeCDF		NA	0.000025	0.0000045 [0.0000026 J]	NA	NA
2,3,4,7,8-PeCDF		NA	0.000099 Q	0.000011 Q [0.0000062 J]	NA	NA
PeCDFs (total)		NA	0.00056 QI	0.00011 QI [0.000054 Q]	NA	NA
1,2,3,4,7,8-HxCDF		NA	0.000073	0.0000094 [0.0000049 J]	NA	NA
1,2,3,6,7,8-HxCDF		NA	0.000037	0.0000040 [0.0000022 J]	NA	NA
1,2,3,7,8,9-HxCDF		NA	0.0000094	0.0000014 JQ [0.00000094 J]	NA	NA
2,3,4,6,7,8-HxCDF		NA	0.000074	0.0000070 [0.0000039 J]	NA	NA
HxCDFs (total)		NA	0.0011 Q	0.00012 Q [0.000061 J]	NA	NA
1,2,3,4,6,7,8-HpCDF		NA	0.00015 Q	0.000026 [0.000011 J]	NA	NA
1,2,3,4,7,8,9-HpCDF		NA	0.000030	0.0000034 [0.0000017 J]	NA	NA
HpCDFs (total)		NA	0.00039 Q	0.000055 [0.000024 J]	NA	NA
OCDF		NA	0.00023	0.000025 [0.000013 J]	NA	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-11-3				
	Sample ID:	RAA15-A19SE	RAA15-A19SW	RAA15-A19SW	RAA15-A19SW	RAA15-A19SW
	Sample Depth(Feet): Date Collected:	3-6 05/04/04	0-1 05/03/04	1-3 05/03/04	3-6 05/03/04	6-8 05/03/04
<b>Dioxins</b>						
2,3,7,8-TCDD		NA	0.000016 Q	0.0000036 J [ND(0.0000024) X]	NA	NA
TCDDs (total)		NA	0.000012 Q	0.0000030 [0.0000017]	NA	NA
1,2,3,7,8-PeCDD		NA	0.000033 Q	0.0000058 JQ [0.0000028 J]	NA	NA
PeCDDs (total)		NA	0.000012 Q	0.0000033 Q [0.0000026 Q]	NA	NA
1,2,3,4,7,8-HxCDD		NA	0.0000043	0.0000071 J [0.0000030 J]	NA	NA
1,2,3,6,7,8-HxCDD		NA	0.000011	0.0000015 J [0.0000067 J]	NA	NA
1,2,3,7,8,9-HxCDD		NA	0.0000087	0.0000012 J [0.0000048 J]	NA	NA
HxCDDs (total)		NA	0.000072	0.000013 [0.0000066]	NA	NA
1,2,3,4,6,7,8-HpCDD		NA	0.00018	0.000016 [0.000093]	NA	NA
HpCDDs (total)		NA	0.00036	0.000035 [0.000018]	NA	NA
OCDD		NA	0.0016	0.00016 [0.000081]	NA	NA
Total TEQs (WHO TEFs)		NA	0.000085	0.000011 [0.000057]	NA	NA
<b>Inorganics</b>						
Antimony		NA	ND(6.00)	ND(6.00) [ND(6.00)]	NA	NA
Arsenic		NA	5.50	4.30 [6.00]	NA	NA
Barium		NA	36.0	29.0 [43.0]	NA	NA
Beryllium		NA	0.250 B	0.290 B [0.400 B]	NA	NA
Cadmium		NA	1.60	0.570 [0.870]	NA	NA
Chromium		NA	14.0	7.80 [14.0]	NA	NA
Cobalt		NA	8.20	5.30 [8.30]	NA	NA
Copper		NA	47.0	22.0 [34.0]	NA	NA
Cyanide		NA	0.360	0.140 [0.130 B]	NA	NA
Lead		NA	270	33.0 [54.0]	NA	NA
Mercury		NA	0.160	0.0950 B [0.180]	NA	NA
Nickel		NA	15.0	9.50 [16.0]	NA	NA
Selenium		NA	0.980 J	ND(1.00) J [0.730 B]	NA	NA
Silver		NA	ND(1.00)	ND(1.00) [ND(1.00)]	NA	NA
Sulfide		NA	420	10.0 [11.0]	NA	NA
Thallium		NA	ND(1.30) J	ND(1.30) J [ND(1.40)]	NA	NA
Tin		NA	ND(10)	ND(10) [5.60 B]	NA	NA
Vanadium		NA	21.0	7.90 [13.0]	NA	NA
Zinc		NA	170	47.0 [90.0]	NA	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-3				K10-11-5			
	RAA15-A19SW 6-10	RAA15-A26 0-1	RAA15-A26 3-6	RAA15-A26 4-6	RAA15-B19S 1-3	RAA15-B19S 10-12	RAA15-B19S 10-15	
	05/03/04	03/03/03	03/03/03	03/03/03	05/03/04	05/03/04	05/03/04	
<b>Volatile Organics</b>								
1,1,1,2-Tetrachloroethane	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
1,1,1-Trichloroethane	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
1,1,2,2-Tetrachloroethane	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
1,1,2-Trichloroethane	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
1,1-Dichloroethane	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
1,1-Dichloroethene	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
1,2,3-Trichloropropane	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
1,2-Dibromo-3-chloropropane	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
1,2-Dibromoethane	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
1,2-Dichloroethane	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
1,2-Dichloropropane	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
1,4-Dioxane	NA	ND(1.0) J	NA	ND(0.93) J	ND(0.13) J	ND(0.14) J	NA	
2-Butanone	NA	ND(0.0052) J	NA	0.0030 J	ND(0.013)	ND(0.014)	NA	
2-Chloro-1,3-butadiene	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
2-Chloroethylvinylether	NA	ND(0.010) J	NA	ND(0.0093) J	ND(0.0067)	ND(0.0071)	NA	
2-Hexanone	NA	ND(0.021) J	NA	ND(0.019) J	ND(0.013)	ND(0.014)	NA	
3-Chloropropene	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
4-Methyl-2-pentanone	NA	ND(0.021) J	NA	ND(0.019) J	ND(0.013)	ND(0.014)	NA	
Acetone	NA	ND(0.021)	NA	0.013 J	ND(0.027)	ND(0.028)	NA	
Acetonitrile	NA	ND(0.10) J	NA	ND(0.093) J	ND(0.13) J	ND(0.14) J	NA	
Acrolein	NA	ND(0.10) J	NA	ND(0.093) J	ND(0.13) J	ND(0.14) J	NA	
Acrylonitrile	NA	ND(0.10)	NA	ND(0.093)	ND(0.0067)	ND(0.0071)	NA	
Benzene	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Bromodichloromethane	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Bromoforn	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Bromomethane	NA	ND(0.0052) J	NA	ND(0.0046) J	ND(0.0067)	ND(0.0071)	NA	
Carbon Disulfide	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Carbon Tetrachloride	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Chlorobenzene	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Chloroethane	NA	ND(0.010) J	NA	ND(0.0093) J	ND(0.0067)	ND(0.0071)	NA	
Chloroform	NA	ND(0.0052)	NA	0.0018 J	ND(0.0067)	ND(0.0071)	NA	
Chloromethane	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
cis-1,3-Dichloropropene	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Dibromochloromethane	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Dibromomethane	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Dichlorodifluoromethane	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Ethyl Methacrylate	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Ethylbenzene	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Iodomethane	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Isobutanol	NA	ND(0.21) J	NA	ND(0.19) J	ND(0.13) J	ND(0.14) J	NA	
Methacrylonitrile	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Methyl Methacrylate	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Methylene Chloride	NA	0.0024 J	NA	0.0012 J	ND(0.0067)	ND(0.0071)	NA	
Propionitrile	NA	ND(0.010)	NA	ND(0.0093)	ND(0.013) J	ND(0.014) J	NA	
Styrene	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Tetrachloroethene	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Toluene	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
trans-1,2-Dichloroethene	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
trans-1,3-Dichloropropene	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
trans-1,4-Dichloro-2-butene	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Trichloroethene	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Trichlorofluoromethane	NA	ND(0.0052) J	NA	ND(0.0046) J	ND(0.0067)	ND(0.0071)	NA	
Vinyl Acetate	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
Vinyl Chloride	NA	ND(0.010)	NA	ND(0.0093)	ND(0.0067)	ND(0.0071)	NA	
Xylenes (total)	NA	ND(0.0052)	NA	ND(0.0046)	ND(0.0067)	ND(0.0071)	NA	
<b>Semivolatile Organics</b>								
1,2,4,5-Tetrachlorobenzene	ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)	
1,2,4-Trichlorobenzene	ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)	
1,2-Dichlorobenzene	ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)	
1,2-Diphenylhydrazine	ND(0.56) J	ND(7.4)	ND(0.36)	NA	ND(0.49) J	NA	ND(0.52) J	
1,3,5-Trinitrobenzene	ND(0.56)	ND(36)	ND(1.8)	NA	ND(0.49)	NA	ND(0.52)	
1,3-Dichlorobenzene	ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)	

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-11-5						
	Sample ID:	K10-11-3	RAA15-A26	RAA15-A26	RAA15-A26	RAA15-B19S	RAA15-B19S	RAA15-B19S
	Sample Depth(Feet): Date Collected:	RAA15-A19SW 6-10 05/03/04	0-1 03/03/03	3-6 03/03/03	4-6 03/03/03	1-3 05/03/04	10-12 05/03/04	10-15 05/03/04
<b>Semivolatile Organics (continued)</b>								
1,3-Dinitrobenzene		ND(1.0) J	ND(7.4)	ND(0.36)	NA	ND(0.90) J	NA	ND(0.87) J
1,4-Dichlorobenzene		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
1,4-Naphthoquinone		ND(1.0) J	ND(36)	ND(1.8)	NA	ND(0.90) J	NA	ND(0.87) J
1-Naphthylamine		ND(1.0)	ND(7.4)	ND(0.36)	NA	ND(0.90)	NA	ND(0.87)
2,3,4,6-Tetrachlorophenol		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
2,4,5-Trichlorophenol		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
2,4,6-Trichlorophenol		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
2,4-Dichlorophenol		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
2,4-Dimethylphenol		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
2,4-Dinitrophenol		ND(2.8)	ND(36)	ND(1.8)	NA	ND(2.4)	NA	ND(2.6)
2,4-Dinitrotoluene		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
2,6-Dichlorophenol		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
2,6-Dinitrotoluene		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
2-Acetylaminofluorene		ND(1.0)	ND(15)	ND(0.73)	NA	ND(0.90)	NA	ND(0.87)
2-Chloronaphthalene		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
2-Chlorophenol		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
2-Methylnaphthalene		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
2-Methylphenol		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
2-Naphthylamine		ND(1.0)	ND(7.4)	ND(0.36)	NA	ND(0.90)	NA	ND(0.87)
2-Nitroaniline		ND(2.8) J	ND(36)	ND(1.8)	NA	ND(2.4) J	NA	ND(2.6) J
2-Nitrophenol		ND(1.0)	ND(7.4)	ND(0.36)	NA	ND(0.90)	NA	ND(0.87)
2-Picoline		ND(0.56)	ND(15)	ND(0.73)	NA	ND(0.49)	NA	ND(0.52)
3&4-Methylphenol		ND(1.0)	ND(15)	ND(0.73)	NA	ND(0.90)	NA	ND(0.87)
3,3'-Dichlorobenzidine		ND(1.1)	ND(36)	ND(1.8)	NA	ND(0.98)	NA	ND(1.0)
3,3'-Dimethylbenzidine		ND(0.56)	ND(36)	ND(1.8)	NA	ND(0.49)	NA	ND(0.52)
3-Methylcholanthrene		ND(1.0)	ND(36)	ND(1.8)	NA	ND(0.90)	NA	ND(0.87)
3-Nitroaniline		ND(2.8)	ND(36)	ND(1.8)	NA	ND(2.4)	NA	ND(2.6)
4,6-Dinitro-2-methylphenol		ND(0.56)	ND(36)	ND(1.8)	NA	ND(0.49)	NA	ND(0.52)
4-Aminobiphenyl		ND(1.0)	ND(36)	ND(1.8)	NA	ND(0.90)	NA	ND(0.87)
4-Bromophenyl-phenylether		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
4-Chloro-3-Methylphenol		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
4-Chloroaniline		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
4-Chlorobenzilate		ND(1.0)	ND(7.4)	ND(0.36)	NA	ND(0.90)	NA	ND(0.87)
4-Chlorophenyl-phenylether		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
4-Nitroaniline		ND(2.6) J	ND(36)	ND(1.8)	NA	ND(2.3) J	NA	ND(2.2) J
4-Nitrophenol		ND(2.8) J	ND(36)	ND(1.8)	NA	ND(2.4) J	NA	ND(2.6) J
4-Nitroquinoline-1-oxide		ND(1.0) J	ND(74)	ND(3.6)	NA	ND(0.90) J	NA	ND(0.87) J
4-Phenylenediamine		ND(1.0)	ND(150)	ND(7.3)	NA	ND(0.90)	NA	ND(0.87)
5-Nitro-o-toluidine		ND(1.0)	ND(15)	ND(0.73)	NA	ND(0.90)	NA	ND(0.87)
7,12-Dimethylbenz(a)anthracene		ND(1.0)	ND(15)	ND(0.73)	NA	ND(0.90)	NA	ND(0.87)
a,a'-Dimethylphenethylamine		ND(1.0) J	ND(36)	ND(1.8)	NA	ND(0.90) J	NA	ND(0.87) J
Acenaphthene		ND(0.56)	1.2 J	0.048 J	NA	ND(0.49)	NA	ND(0.52)
Acenaphthylene		ND(0.56)	ND(7.4)	0.026 J	NA	ND(0.49)	NA	ND(0.52)
Acetophenone		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
Aniline		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
Anthracene		ND(0.56)	2.9 J	0.18 J	NA	ND(0.49)	NA	ND(0.52)
Aramite		ND(1.0)	ND(36)	ND(1.8)	NA	ND(0.90)	NA	ND(0.87)
Benazidine		ND(1.1) J	ND(74)	ND(3.6)	NA	ND(0.98) J	NA	ND(1.0) J
Benzo(a)anthracene		ND(0.56)	6.5 J	0.40	NA	ND(0.49)	NA	ND(0.52)
Benzo(a)pyrene		0.18 J	5.8 J	0.37	NA	ND(0.49)	NA	0.14 J
Benzo(b)fluoranthene		ND(0.56)	4.9 J	0.34 J	NA	ND(0.49)	NA	ND(0.52)
Benzo(g,h,i)perylene		ND(0.56)	1.9 J	0.14 J	NA	ND(0.49)	NA	ND(0.52)
Benzo(k)fluoranthene		ND(0.56)	5.7 J	0.31 J	NA	ND(0.49)	NA	ND(0.52)
Benzyl Alcohol		ND(1.1) J	ND(7.4)	ND(0.36)	NA	ND(0.98) J	NA	ND(1.0) J
bis(2-Chloroethoxy)methane		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
bis(2-Chloroethyl)ether		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
bis(2-Chloroisopropyl)ether		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
bis(2-Ethylhexyl)phthalate		ND(0.50)	ND(7.4)	ND(0.36)	NA	ND(0.44)	NA	ND(0.43)
Butylbenzylphthalate		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
Chrysene		ND(0.56)	6.7 J	0.42	NA	ND(0.49)	NA	ND(0.52)
Diallate		ND(1.0)	ND(15)	ND(0.73)	NA	ND(0.90)	NA	ND(0.87)
Dibenzo(a,h)anthracene		ND(0.56)	ND(7.4)	0.050 J	NA	ND(0.49)	NA	ND(0.52)

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
**(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-11-5						
	Sample ID:	K10-11-3	RAA15-A26	RAA15-A26	RAA15-A26	RAA15-B19S	RAA15-B19S	RAA15-B19S
	Sample Depth:(Feet): Date Collected:	RAA15-A19SW 6-10 05/03/04	0-1 03/03/03	3-6 03/03/03	4-6 03/03/03	1-3 05/03/04	10-12 05/03/04	10-15 05/03/04
<b>Semivolatile Organics (continued)</b>								
Dibenzofuran		ND(0.56)	0.74 J	0.040 J	NA	ND(0.49)	NA	ND(0.52)
Diethylphthalate		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
Dimethylphthalate		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
Di-n-Butylphthalate		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
Di-n-Octylphthalate		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
Diphenylamine		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
Ethyl Methanesulfonate		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
Fluoranthene		ND(0.56)	15	0.86	NA	0.12 J	NA	ND(0.52)
Fluorene		ND(0.56)	1.4 J	0.057 J	NA	ND(0.49)	NA	ND(0.52)
Hexachlorobenzene		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
Hexachlorobutadiene		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
Hexachlorocyclopentadiene		ND(0.56)	ND(36)	ND(1.8)	NA	ND(0.49)	NA	ND(0.52)
Hexachloroethane		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
Hexachlorophene		ND(1.1)	ND(150)	ND(7.4)	NA	ND(0.98)	NA	ND(1.0)
Hexachloropropene		ND(0.56) J	ND(74)	ND(3.6)	NA	ND(0.49) J	NA	ND(0.52) J
Indeno(1,2,3-cd)pyrene		ND(0.56)	2.3 J	0.18 J	NA	ND(0.49)	NA	ND(0.52)
Isodrin		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
Isophorone		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
Isosafrole		ND(1.0)	ND(15)	ND(0.73)	NA	ND(0.90)	NA	ND(0.87)
Methapyrilene		ND(1.0) J	ND(36)	ND(1.8)	NA	ND(0.90) J	NA	ND(0.87) J
Methyl Methanesulfonate		ND(0.56) J	ND(7.4)	ND(0.36)	NA	ND(0.49) J	NA	ND(0.52) J
Naphthalene		ND(0.56)	ND(7.4)	0.024 J	NA	ND(0.49)	NA	ND(0.52)
Nitrobenzene		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
N-Nitrosodiethylamine		ND(0.56) J	ND(7.4)	ND(0.36)	NA	ND(0.49) J	NA	ND(0.52) J
N-Nitrosodimethylamine		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
N-Nitroso-di-n-butylamine		ND(1.0)	ND(7.4)	ND(0.36)	NA	ND(0.90)	NA	ND(0.87)
N-Nitroso-di-n-propylamine		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
N-Nitrosodiphenylamine		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
N-Nitrosomethylethylamine		ND(1.0)	ND(7.4)	ND(0.36)	NA	ND(0.90)	NA	ND(0.87)
N-Nitrosomorpholine		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
N-Nitrosopiperidine		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
N-Nitrosopyrrolidine		ND(1.0)	ND(7.4)	ND(0.36)	NA	ND(0.90)	NA	ND(0.87)
o,o,o-Triethylphosphorothioate		ND(0.56)	ND(36)	ND(1.8)	NA	ND(0.49)	NA	ND(0.52)
o-Toluidine		ND(0.56)	ND(15)	ND(0.73)	NA	ND(0.49)	NA	ND(0.52)
p-Dimethylaminoazobenzene		ND(1.0)	ND(15)	ND(0.73)	NA	ND(0.90)	NA	ND(0.87)
Pentachlorobenzene		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
Pentachloroethane		ND(0.56) J	ND(36)	ND(1.8)	NA	ND(0.49) J	NA	ND(0.52) J
Pentachloronitrobenzene		ND(1.0) J	ND(36)	ND(1.8)	NA	ND(0.90) J	NA	ND(0.87) J
Pentachlorophenol		ND(2.8)	ND(36)	ND(1.8)	NA	ND(2.4)	NA	ND(2.6)
Phenacetin		ND(1.0) J	ND(15)	ND(0.73)	NA	ND(0.90) J	NA	ND(0.87) J
Phenanthrene		ND(0.56)	12	0.67	NA	ND(0.49)	NA	ND(0.52)
Phenol		ND(0.56)	ND(7.4)	ND(0.36)	NA	ND(0.49)	NA	ND(0.52)
Pronamide		ND(0.56)	ND(15)	ND(0.73)	NA	ND(0.49)	NA	ND(0.52)
Pyrene		ND(0.56)	10	0.62	NA	0.12 J	NA	ND(0.52)
Pyridine		ND(0.56)	ND(15)	ND(0.73)	NA	ND(0.49)	NA	ND(0.52)
Safrole		ND(0.56)	ND(15)	ND(0.73)	NA	ND(0.49)	NA	ND(0.52)
Thionazin		ND(0.56)	ND(36)	ND(1.8)	NA	ND(0.49)	NA	ND(0.52)
<b>Furans</b>								
2,3,7,8-TCDF		ND(0.00000098) X	0.0000073 J	ND(0.0000028) X	NA	0.0000097 Y	NA	ND(0.00000094) X
TCDFs (total)		ND(0.00000012)	ND(0.000080) X	ND(0.000023) X	NA	0.000093	NA	ND(0.00000011)
1,2,3,7,8-PeCDF		ND(0.00000094) X	0.0000028 J	ND(0.0000047)	NA	0.0000056	NA	ND(0.00000026)
2,3,4,7,8-PeCDF		ND(0.00000064) X	0.0000047 J	ND(0.0000077) X	NA	0.0000099	NA	ND(0.00000026)
PeCDFs (total)		ND(0.00000047)	ND(0.00023) X	ND(0.000038) X	NA	0.000094	NA	ND(0.00000026)
1,2,3,4,7,8-HxCDF		ND(0.00000031)	ND(0.000039) X	ND(0.000011) X	NA	0.000019	NA	0.00000090 J
1,2,3,6,7,8-HxCDF		ND(0.00000031)	0.0000054 J	ND(0.0000046) X	NA	0.0000088	NA	0.00000071 J
1,2,3,7,8,9-HxCDF		ND(0.00000031)	ND(0.0000089)	ND(0.0000043)	NA	0.0000027 J	NA	ND(0.00000026)
2,3,4,6,7,8-HxCDF		ND(0.00000031)	0.0000041 J	ND(0.0000049) X	NA	0.0000066	NA	ND(0.00000026)
HxCDFs (total)		ND(0.00000031)	ND(0.00022) X	ND(0.000028) X	NA	0.000095	NA	0.00000027
1,2,3,4,6,7,8-HpCDF		0.0000011 J	0.000030 J	0.000022 J	NA	0.000036	NA	0.0000015 J
1,2,3,4,7,8,9-HpCDF		ND(0.00000031)	0.000019 J	ND(0.0000062)	NA	0.000011	NA	ND(0.00000026)
HpCDFs (total)		0.00000011	0.00011	ND(0.000049) X	NA	0.000076	NA	0.00000015
OCDF		ND(0.00000062)	0.00011 J	ND(0.000027)	NA	0.000080	NA	ND(0.00000052)

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parameter	Parcel ID:	K10-11-5						
	Sample ID:	RAA15-A19SW	RAA15-A26	RAA15-A26	RAA15-A26	RAA15-B19S	RAA15-B19S	RAA15-B19S
	Sample Depth(Feet):	6-10	0-1	3-6	4-6	1-3	10-12	10-15
Date Collected:	05/03/04	03/03/03	03/03/03	03/03/03	05/03/04	05/03/04	05/03/04	
<b>Dioxins</b>								
2,3,7,8-TCDD	ND(0.00000012)	ND(0.0000018)	ND(0.0000085)	NA	0.0000026 J	NA	ND(0.00000011)	
TCDDs (total)	ND(0.00000029)	ND(0.0000018)	ND(0.0000085)	NA	0.0000013	NA	ND(0.00000025)	
1,2,3,7,8-PeCDD	ND(0.00000031)	ND(0.0000012)	ND(0.0000045)	NA	ND(0.0000050) X	NA	ND(0.00000026)	
PeCDDs (total)	ND(0.00000031)	ND(0.0000019) X	ND(0.0000045)	NA	0.0000038	NA	ND(0.00000026)	
1,2,3,4,7,8-HxCDD	ND(0.00000031)	ND(0.0000014)	ND(0.0000065)	NA	0.0000067 J	NA	ND(0.00000026)	
1,2,3,6,7,8-HxCDD	ND(0.00000031)	ND(0.0000014)	ND(0.0000061)	NA	0.0000089 J	NA	ND(0.00000026)	
1,2,3,7,8,9-HxCDD	ND(0.00000031)	ND(0.0000014)	ND(0.0000063)	NA	0.0000013 J	NA	ND(0.00000026)	
HxCDDs (total)	ND(0.00000051)	ND(0.0000038) X	ND(0.0000021) X	NA	0.000011	NA	ND(0.00000046)	
1,2,3,4,6,7,8-HpCDD	ND(0.00000030) X	ND(0.0000018) X	0.0000024 J	NA	0.0000081	NA	0.00000017 J	
HpCDDs (total)	ND(0.00000031)	ND(0.0000034) X	0.0000053 J	NA	0.000016	NA	0.00000017	
OCDD	ND(0.0000011)	0.00025 J	0.000022 J	NA	0.000044	NA	ND(0.00000081)	
Total TEQs (WHO TEFs)	0.00000035	0.0000085	0.0000015	NA	0.000011	NA	0.00000035	
<b>Inorganics</b>								
Antimony	ND(6.00)	ND(6.70) J	ND(6.60) J	NA	ND(6.00)	NA	ND(6.00)	
Arsenic	0.700 B	5.60	5.00	NA	4.40	NA	0.720 B	
Barium	11.0 B	32.9	25.0	NA	49.0	NA	13.0 B	
Beryllium	0.170 B	ND(0.380)	ND(0.430)	NA	0.500 B	NA	0.140 B	
Cadmium	0.270 B	ND(0.560)	ND(0.550)	NA	1.00	NA	0.290 B	
Chromium	3.60	9.50	8.60	NA	15.0	NA	4.10	
Cobalt	2.90 B	8.20	6.60	NA	10.0	NA	3.80 B	
Copper	4.00	44.6	16.6	NA	28.0	NA	4.20	
Cyanide	0.0420 B	ND(0.560)	ND(0.550)	NA	0.0700 B	NA	ND(0.130)	
Lead	2.00	35.8 J	14.4 J	NA	73.0	NA	2.50	
Mercury	ND(0.150)	0.0790	0.0810	NA	0.370	NA	ND(0.130)	
Nickel	5.30	15.1	12.9	NA	16.0	NA	6.80	
Selenium	ND(1.10) J	ND(0.560)	ND(0.550)	NA	0.680 J	NA	0.660 J	
Silver	ND(1.10)	ND(1.10)	ND(1.10)	NA	ND(1.00)	NA	ND(1.00)	
Sulfide	15.0	ND(11.2)	ND(11.0)	NA	6.40 B	NA	12.0	
Thallium	ND(1.50) J	ND(1.10) J	ND(1.10) J	NA	ND(1.30) J	NA	ND(1.30) J	
Tin	ND(10)	ND(4.90)	ND(4.10)	NA	ND(10)	NA	ND(10)	
Vanadium	3.90 B	12.7	10.2	NA	18.0	NA	4.50 B	
Zinc	23.0	69.2	56.2	NA	100	NA	25.0	



**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-5				
	RAA15-B21 0-1 03/03/03	RAA15-B22 1-3 02/28/03	RAA15-B24 0-1 03/03/03	RAA15-C19 0-1 02/27/03	RAA15-C20 6-10 03/04/03
<b>Volatile Organics</b>					
1,1,1,2-Tetrachloroethane	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
1,1,1-Trichloroethane	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
1,1,2,2-Tetrachloroethane	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
1,1,2-Trichloroethane	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
1,1-Dichloroethane	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
1,1-Dichloroethene	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
1,2,3-Trichloropropane	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
1,2-Dibromo-3-chloropropane	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
1,2-Dibromoethane	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
1,2-Dichloroethane	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
1,2-Dichloropropane	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
1,4-Dioxane	ND(1.0) J	ND(1.1) J	ND(1.7) J [ND(1.6) J]	ND(2.7) J	NA
2-Butanone	ND(0.0051) J	ND(0.0055) J	ND(0.0086) J [ND(0.0081) J]	ND(0.013) J	NA
2-Chloro-1,3-butadiene	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
2-Chloroethylvinylether	ND(0.010) J	ND(0.011) J	ND(0.017) J [ND(0.016) J]	ND(0.027) J	NA
2-Hexanone	ND(0.020) J	ND(0.022) J	ND(0.034) J [ND(0.033) J]	ND(0.053) J	NA
3-Chloropropene	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
4-Methyl-2-pentanone	ND(0.020) J	ND(0.022) J	ND(0.034) J [ND(0.033) J]	ND(0.053) J	NA
Acetone	ND(0.020) J	ND(0.022) J	ND(0.034) J [ND(0.033) J]	ND(0.053) J	NA
Acetonitrile	ND(0.10) J	ND(0.11) J	ND(0.17) J [ND(0.16) J]	ND(0.27) J	NA
Acrolein	ND(0.10) J	ND(0.11) J	ND(0.17) J [ND(0.16) J]	ND(0.27) J	NA
Acrylonitrile	ND(0.10) J	ND(0.11) J	ND(0.17) J [ND(0.16) J]	ND(0.27) J	NA
Benzene	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Bromodichloromethane	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Bromoform	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Bromomethane	ND(0.0051) J	ND(0.0055)	ND(0.0086) J [ND(0.0081) J]	ND(0.013)	NA
Carbon Disulfide	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Carbon Tetrachloride	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Chlorobenzene	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Chloroethane	ND(0.010) J	ND(0.011) J	ND(0.017) J [ND(0.016) J]	ND(0.027) J	NA
Chloroform	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Chloromethane	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
cis-1,3-Dichloropropene	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Dibromochloromethane	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Dibromomethane	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Dichlorodifluoromethane	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Ethyl Methacrylate	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Ethylbenzene	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Iodomethane	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Isobutanol	ND(0.20) J	ND(0.22) J	ND(0.34) J [ND(0.33) J]	ND(0.53) J	NA
Methacrylonitrile	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Methyl Methacrylate	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Methylene Chloride	0.0018 J	ND(0.0055)	0.0034 J [0.0037 J]	ND(0.013)	NA
Propionitrile	ND(0.010)	ND(0.011)	ND(0.017) [ND(0.016)]	ND(0.027)	NA
Styrene	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Tetrachloroethene	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Toluene	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
trans-1,2-Dichloroethene	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
trans-1,3-Dichloropropene	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
trans-1,4-Dichloro-2-butene	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Trichloroethene	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Trichlorofluoromethane	ND(0.0051) J	ND(0.0055) J	ND(0.0086) J [ND(0.0081) J]	ND(0.013) J	NA
Vinyl Acetate	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
Vinyl Chloride	ND(0.010)	ND(0.011)	ND(0.017) [ND(0.016)]	ND(0.027)	NA
Xylenes (total)	ND(0.0051)	ND(0.0055)	ND(0.0086) [ND(0.0081)]	ND(0.013)	NA
<b>Semivolatile Organics</b>					
1,2,4,5-Tetrachlorobenzene	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
1,2,4-Trichlorobenzene	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
1,2-Dichlorobenzene	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
1,2-Diphenylhydrazine	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
1,3,5-Trinitrobenzene	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
1,3-Dichlorobenzene	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	K10-11-5				
	RAA15-B21	RAA15-B22	RAA15-B24	RAA15-C19	RAA15-C20
	0-1 03/03/03	1-3 02/28/03	0-1 03/03/03	0-1 02/27/03	6-10 03/04/03
<b>Semivolatile Organics (continued)</b>					
1,3-Dinitrobenzene	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
1,4-Dichlorobenzene	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
1,4-Naphthoquinone	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
1-Naphthylamine	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
2,3,4,6-Tetrachlorophenol	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
2,4,5-Trichlorophenol	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
2,4,6-Trichlorophenol	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
2,4-Dichlorophenol	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
2,4-Dimethylphenol	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
2,4-Dinitrophenol	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
2,4-Dinitrotoluene	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
2,6-Dichlorophenol	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
2,6-Dinitrotoluene	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
2-Acetylaminofluorene	ND(2.9)	ND(0.77)	ND(0.91) [ND(0.88)]	ND(0.95)	ND(1.1)
2-Chloronaphthalene	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
2-Chlorophenol	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
2-Methylnaphthalene	ND(1.5)	ND(0.39)	0.12 J [0.053 J]	ND(0.47)	ND(0.55)
2-Methylphenol	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
2-Naphthylamine	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
2-Nitroaniline	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
2-Nitrophenol	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
2-Picoline	ND(2.9)	ND(0.77)	ND(0.91) [ND(0.88)]	ND(0.95)	ND(1.1)
3&4-Methylphenol	ND(2.9)	ND(0.77)	ND(0.91) [ND(0.88)]	ND(0.95)	ND(1.1)
3,3'-Dichlorobenzidine	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
3,3'-Dimethylbenzidine	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
3-Methylcholanthrene	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
3-Nitroaniline	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
4,6-Dinitro-2-methylphenol	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
4-Aminobiphenyl	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
4-Bromophenyl-phenylether	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
4-Chloro-3-Methylphenol	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
4-Chloroaniline	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
4-Chlorobenzilate	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
4-Chlorophenyl-phenylether	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
4-Nitroaniline	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
4-Nitrophenol	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
4-Nitroquinoline-1-oxide	ND(15)	ND(3.9)	ND(4.5) [ND(4.4)]	ND(4.7)	ND(5.5)
4-Phenylenediamine	ND(29)	ND(7.7)	ND(9.1) [ND(8.8)]	ND(9.5)	ND(11)
5-Nitro-o-toluidine	ND(2.9)	ND(0.77)	ND(0.91) [ND(0.88)]	ND(0.95)	ND(1.1)
7,12-Dimethylbenz(a)anthracene	ND(2.9)	ND(0.77)	ND(0.91) [ND(0.88)]	ND(0.95)	ND(1.1)
a,a'-Dimethylphenethylamine	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
Acenaphthene	0.24 J	ND(0.39)	0.052 J [0.038 J]	ND(0.47)	ND(0.55)
Acenaphthylene	0.47 J	ND(0.39)	0.095 J [0.099 J]	0.065 J	ND(0.55)
Acetophenone	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
Aniline	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
Anthracene	0.76 J	ND(0.39)	0.13 J [0.13 J]	ND(0.47)	ND(0.55)
Aramite	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
Benzidine	ND(15)	ND(3.9)	ND(4.5) [ND(4.4)]	ND(4.7)	ND(5.5)
Benzo(a)anthracene	1.8	ND(0.39)	0.38 J [0.39 J]	0.22 J	ND(0.55)
Benzo(a)pyrene	1.9	ND(0.39)	0.46 [0.46]	0.27 J	ND(0.55)
Benzo(b)fluoranthene	1.7	ND(0.39)	0.49 [0.55]	0.27 J	ND(0.55)
Benzo(g,h,i)perylene	0.64 J	ND(0.39)	0.17 J [0.11 J]	0.13 J	ND(0.55)
Benzo(k)fluoranthene	2.0	ND(0.39)	0.46 [0.54]	0.25 J	ND(0.55)
Benzyl Alcohol	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
bis(2-Chloroethoxy)methane	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
bis(2-Chloroethyl)ether	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
bis(2-Chloroisopropyl)ether	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
bis(2-Ethylhexyl)phthalate	ND(1.5)	ND(0.39)	0.068 J [0.25 J]	ND(0.47)	ND(0.55)
Butylbenzylphthalate	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
Chrysene	2.1	ND(0.39)	0.50 [0.55]	0.31 J	ND(0.55)
Diallate	ND(2.9)	ND(0.77)	ND(0.91) [ND(0.88)]	ND(0.95)	ND(1.1)
Dibenzo(a,h)anthracene	0.23 J	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-5				
	RAA15-B21 0-1 03/03/03	RAA15-B22 1-3 02/28/03	RAA15-B24 0-1 03/03/03	RAA15-C19 0-1 02/27/03	RAA15-C20 6-10 03/04/03
<b>Semivolatile Organics (continued)</b>					
Dibenzofuran	0.16 J	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
Diethylphthalate	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
Dimethylphthalate	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
Di-n-Butylphthalate	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
Di-n-Octylphthalate	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
Diphenylamine	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
Ethyl Methanesulfonate	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
Fluoranthene	4.6	ND(0.39)	0.94 [1.2]	0.49	ND(0.55)
Fluorene	0.38 J	ND(0.39)	0.057 J [0.058 J]	ND(0.47)	ND(0.55)
Hexachlorobenzene	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
Hexachlorobutadiene	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
Hexachlorocyclopentadiene	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
Hexachloroethane	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
Hexachlorophene	ND(30)	ND(7.9) J	ND(9.2) [ND(8.9)]	ND(9.6) J	ND(11)
Hexachloropropene	ND(15)	ND(3.9)	ND(4.5) [ND(4.4)]	ND(4.7)	ND(5.5)
Indeno(1,2,3-cd)pyrene	0.76 J	ND(0.39)	0.19 J [0.14 J]	0.15 J	ND(0.55)
Isodrin	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
Isophorone	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
Isosafrole	ND(2.9)	ND(0.77)	ND(0.91) [ND(0.88)]	ND(0.95)	ND(1.1)
Methapyrilene	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
Methyl Methanesulfonate	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
Naphthalene	0.13 J	ND(0.39)	0.065 J [0.041 J]	ND(0.47)	ND(0.55)
Nitrobenzene	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
N-Nitrosodiethylamine	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
N-Nitrosodimethylamine	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
N-Nitroso-di-n-butylamine	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
N-Nitroso-di-n-propylamine	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
N-Nitrosodiphenylamine	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
N-Nitrosomethylethylamine	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
N-Nitrosomorpholine	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
N-Nitrosopiperidine	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
N-Nitrosopyrrolidine	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
o,o,o-Triethylphosphorothioate	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
o-Toluidine	ND(2.9)	ND(0.77)	ND(0.91) [ND(0.88)]	ND(0.95)	ND(1.1)
p-Dimethylaminoazobenzene	ND(2.9)	ND(0.77)	ND(0.91) [ND(0.88)]	ND(0.95)	ND(1.1)
Pentachlorobenzene	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
Pentachloroethane	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
Pentachloronitrobenzene	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
Pentachlorophenol	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
Phenacetin	ND(2.9)	ND(0.77)	ND(0.91) [ND(0.88)]	ND(0.95)	ND(1.1)
Phenanthrene	3.1	ND(0.39)	0.61 [0.69]	0.24 J	ND(0.55)
Phenol	ND(1.5)	ND(0.39)	ND(0.45) [ND(0.44)]	ND(0.47)	ND(0.55)
Pronamide	ND(2.9)	ND(0.77)	ND(0.91) [ND(0.88)]	ND(0.95)	ND(1.1)
Pyrene	2.9	ND(0.39)	0.65 [0.65]	0.39 J	ND(0.55)
Pyridine	ND(2.9)	ND(0.77)	ND(0.91) [ND(0.88)]	ND(0.95)	ND(1.1)
Safrole	ND(2.9)	ND(0.77)	ND(0.91) [ND(0.88)]	ND(0.95)	ND(1.1)
Thionazin	ND(7.1)	ND(1.9)	ND(2.2) [ND(2.1)]	ND(2.3)	ND(2.7)
<b>Furans</b>					
2,3,7,8-TCDF	ND(0.0000054) X	ND(0.0000018)	0.000054 J [ND(0.000070) X]	ND(0.000066) X	ND(0.0000017)
TCDFs (total)	ND(0.000031) X	ND(0.0000018)	ND(0.000032) X [ND(0.000042) X]	ND(0.000049) X	ND(0.0000017)
1,2,3,7,8-PeCDF	ND(0.0000011)	ND(0.0000010)	0.000016 J [0.000021 J]	0.000021 J	ND(0.00000093)
2,3,4,7,8-PeCDF	0.0000026 J	ND(0.00000096)	ND(0.000017) X [0.000022 J]	0.000021 J	ND(0.00000088)
PeCDFs (total)	ND(0.000091) X	ND(0.00000099)	ND(0.000033) X [ND(0.000048) X]	ND(0.000043) X	ND(0.00000091)
1,2,3,4,7,8-HxCDF	0.0000028 J	0.0000011 J	0.0000028 J [0.000025 J]	0.000034 J	ND(0.00000068)
1,2,3,6,7,8-HxCDF	ND(0.0000080) X	ND(0.0000013) X	ND(0.000036) X [ND(0.000053) X]	ND(0.000057) X	ND(0.00000063)
1,2,3,7,8,9-HxCDF	ND(0.00000081)	ND(0.00000081)	ND(0.0000040) [ND(0.00000066)]	ND(0.0000041)	ND(0.00000080)
2,3,4,6,7,8-HxCDF	0.0000024 J	ND(0.00000073)	0.000010 J [0.000011 J]	ND(0.0000064) X	ND(0.00000073)
HxCDFs (total)	ND(0.000071) XQJ	ND(0.0000024) X	ND(0.000026) X [ND(0.000042) X]	ND(0.000038) X	0.00000094 J
1,2,3,4,6,7,8-HpCDF	0.0000099 J	ND(0.00000092)	0.000011 J [0.000020]	0.000016 J	0.00000032 J
1,2,3,4,7,8,9-HpCDF	ND(0.0000012)	ND(0.0000011)	ND(0.0000046) [ND(0.0000068) X]	ND(0.0000059)	ND(0.0000011)
HpCDFs (total)	ND(0.000027) X	ND(0.0000010)	0.000021 J [ND(0.000038) X]	0.000030 J	ND(0.0000059) X
OCDF	ND(0.000017)	0.0000033 J	ND(0.000010) [0.000020]	ND(0.000019)	ND(0.0000046) X

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	K10-11-5				
	RAA15-B21 0-1 03/03/03	RAA15-B22 1-3 02/28/03	RAA15-B24 0-1 03/03/03	RAA15-C19 0-1 02/27/03	RAA15-C20 6-10 03/04/03
<b>Dioxins</b>					
2,3,7,8-TCDD	ND(0.0000024)	ND(0.0000024)	ND(0.000011) [ND(0.0000074) X]	ND(0.000012)	ND(0.0000023)
TCDDs (total)	ND(0.0000024)	ND(0.0000024)	ND(0.000011) [ND(0.000018) X]	ND(0.000012)	ND(0.0000023)
1,2,3,7,8-PeCDD	ND(0.0000011)	ND(0.0000012)	ND(0.0000059) [ND(0.0000026) X]	ND(0.0000078)	ND(0.0000010)
PeCDDs (total)	ND(0.0000011)	ND(0.0000012)	ND(0.0000059) [ND(0.0000024) X]	ND(0.0000078)	ND(0.0000010)
1,2,3,4,7,8-HxCDD	0.0000013 J	ND(0.0000016)	0.0000013 J [ND(0.0000026) X]	ND(0.0000064)	ND(0.0000012)
1,2,3,6,7,8-HxCDD	ND(0.0000022) X	ND(0.0000015)	ND(0.0000049) [0.0000088 J]	ND(0.0000060)	ND(0.0000011)
1,2,3,7,8,9-HxCDD	0.0000031 J	ND(0.0000015)	ND(0.0000051) [0.0000067 J]	ND(0.0000062)	ND(0.0000012)
HxCDDs (total)	ND(0.000014) X	ND(0.0000015)	ND(0.0000032) X [ND(0.0000077) X]	ND(0.0000024) X	ND(0.0000012)
1,2,3,4,6,7,8-HpCDD	0.0000026 J	ND(0.0000014)	0.0000094 J [0.000017]	0.000013 J	ND(0.0000036) X
HpCDDs (total)	0.0000053 J	ND(0.0000018) X	0.000019 J [ND(0.000034) X]	0.000022 J	ND(0.0000064) X
OCDD	ND(0.000017)	ND(0.000012) X	0.000079 J [0.00017 QJ]	0.00012	0.000031 J
Total TEQs (WHO TEFs)	0.0000052	0.0000027	0.0000025 [0.000032]	0.0000036	0.0000024
<b>Inorganics</b>					
Antimony	ND(6.70) J	ND(7.00) J	ND(8.20) J [ND(8.00) J]	ND(8.60) J	ND(10.0) J
Arsenic	2.40	2.80	5.00 [4.90]	5.50	1.50 B
Barium	20.6 B	24.7	56.0 [54.1]	75.4	29.3 B
Beryllium	ND(0.400)	0.400 B	ND(0.620) [ND(0.650)]	0.860	ND(0.570)
Cadmium	ND(0.560)	ND(0.590)	0.280 B [0.170 B]	ND(0.720)	ND(0.830)
Chromium	6.30	7.60	38.5 [34.6]	29.4	10.8
Cobalt	6.00	6.80	8.10 [8.80]	11.4	7.10 B
Copper	13.1	12.2	66.2 [64.4]	30.4	10.0 J
Cyanide	ND(0.560)	ND(0.590)	0.250 B [ND(0.670)]	0.320 B	ND(0.830)
Lead	17.8 J	5.20	96.4 J [86.2 J]	50.9	5.20
Mercury	0.0290 B	ND(0.0390)	0.250 [0.250]	0.190	0.0360 B
Nickel	10.1	12.2	26.7 [27.2]	20.0	14.0
Selenium	ND(0.560)	0.650	0.720 [ND(0.670)]	1.20	ND(0.830) J
Silver	ND(1.10)	ND(1.20)	0.300 B [0.150 B]	ND(1.40)	ND(1.70)
Sulfide	ND(11.2)	ND(11.7)	ND(13.7) [ND(13.3)]	ND(14.3)	ND(16.6)
Thallium	ND(1.10) J	ND(1.20) J	ND(1.40) J [ND(1.30) J]	ND(1.40) J	ND(1.70) J
Tin	ND(3.80)	ND(11.7)	ND(7.60) [ND(7.10)]	ND(14.3)	ND(6.10)
Vanadium	8.10	9.20	17.8 [15.6]	21.5	12.0
Zinc	43.0	41.3 J	126 [109]	111 J	58.2

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-5						
	RAA15-C20 8-10 03/04/03	RAA15-C23 0-1 03/03/03	RAA15-C24 1-3 03/03/03	RAA15-C24 3-6 03/03/03	RAA15-C24 4-6 03/03/03	RAA15-C24 10-12 03/03/03	RAA15-C24 10-15 03/03/03
<b>Volatile Organics</b>							
1,1,1,2-Tetrachloroethane	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
1,1,1-Trichloroethane	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
1,1,2,2-Tetrachloroethane	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
1,1,2-Trichloroethane	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
1,1-Dichloroethane	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
1,1-Dichloroethene	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
1,2,3-Trichloropropane	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
1,2-Dibromo-3-chloropropane	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
1,2-Dibromoethane	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
1,2-Dichloroethane	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
1,2-Dichloropropane	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
1,4-Dioxane	ND(1.6) J	ND(1.2) J	ND(1.3) J	NA	ND(1.1) J	ND(0.91) J	NA
2-Butanone	ND(0.0078) J	ND(0.0062) J	ND(0.0064) J	NA	ND(0.0057) J	0.0023 J	NA
2-Chloro-1,3-butadiene	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
2-Chloroethylvinylether	ND(0.016) J	ND(0.012) J	ND(0.013) J	NA	ND(0.011) J	ND(0.0091) J	NA
2-Hexanone	ND(0.031) J	ND(0.025) J	ND(0.026) J	NA	ND(0.023) J	ND(0.018) J	NA
3-Chloropropene	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
4-Methyl-2-pentanone	ND(0.031) J	ND(0.025) J	ND(0.026) J	NA	ND(0.023) J	ND(0.018) J	NA
Acetone	ND(0.031)	ND(0.025)	ND(0.026)	NA	ND(0.023)	0.0079 J	NA
Acetonitrile	ND(0.16) J	ND(0.12) J	ND(0.13) J	NA	ND(0.11) J	ND(0.091) J	NA
Acrolein	ND(0.16) J	ND(0.12) J	ND(0.13) J	NA	ND(0.11) J	ND(0.091) J	NA
Acrylonitrile	ND(0.16)	ND(0.12)	ND(0.13)	NA	ND(0.11)	ND(0.091)	NA
Benzene	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Bromodichloromethane	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Bromoform	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Bromomethane	ND(0.0078) J	ND(0.0062) J	ND(0.0064) J	NA	ND(0.0057) J	ND(0.0045) J	NA
Carbon Disulfide	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Carbon Tetrachloride	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Chlorobenzene	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Chloroethane	ND(0.016) J	ND(0.012) J	ND(0.013) J	NA	ND(0.011) J	ND(0.0091) J	NA
Chloroform	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Chloromethane	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
cis-1,3-Dichloropropene	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Dibromochloromethane	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Dibromomethane	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Dichlorodifluoromethane	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Ethyl Methacrylate	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Ethylbenzene	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Iodomethane	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Isobutanol	ND(0.31) J	ND(0.25) J	ND(0.26) J	NA	ND(0.23) J	ND(0.18) J	NA
Methacrylonitrile	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Methyl Methacrylate	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Methylene Chloride	0.0025 J	0.0037 J	0.0028 J	NA	0.0030 J	0.0012 J	NA
Propionitrile	ND(0.016)	ND(0.012)	ND(0.013)	NA	ND(0.011)	ND(0.0091)	NA
Styrene	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Tetrachloroethene	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Toluene	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
trans-1,2-Dichloroethene	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
trans-1,3-Dichloropropene	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
trans-1,4-Dichloro-2-butene	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Trichloroethene	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Trichlorofluoromethane	ND(0.0078) J	ND(0.0062) J	ND(0.0064) J	NA	ND(0.0057) J	ND(0.0045) J	NA
Vinyl Acetate	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
Vinyl Chloride	ND(0.016)	ND(0.012)	ND(0.013)	NA	ND(0.011)	ND(0.0091)	NA
Xylenes (total)	ND(0.0078)	ND(0.0062)	ND(0.0064)	NA	ND(0.0057)	ND(0.0045)	NA
<b>Semivolatile Organics</b>							
1,2,4,5-Tetrachlorobenzene	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
1,2,4-Trichlorobenzene	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
1,2-Dichlorobenzene	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
1,2-Diphenylhydrazine	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
1,3,5-Trinitrobenzene	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
1,3-Dichlorobenzene	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-5						
	RAA15-C20	RAA15-C23	RAA15-C24	RAA15-C24	RAA15-C24	RAA15-C24	RAA15-C24
	8-10	0-1	1-3	3-6	4-6	10-12	10-15
	03/04/03	03/03/03	03/03/03	03/03/03	03/03/03	03/03/03	03/03/03
<b>Semivolatile Organics (continued)</b>							
1,3-Dinitrobenzene	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
1,4-Dichlorobenzene	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
1,4-Naphthoquinone	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
1-Naphthylamine	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
2,3,4,6-Tetrachlorophenol	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
2,4,5-Trichlorophenol	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
2,4,6-Trichlorophenol	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
2,4-Dichlorophenol	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
2,4-Dimethylphenol	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
2,4-Dinitrophenol	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
2,4-Dinitrotoluene	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
2,6-Dichlorophenol	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
2,6-Dinitrotoluene	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
2-Acetylaminofluorene	NA	ND(0.74)	ND(0.71)	ND(0.69)	NA	NA	ND(0.77)
2-Chloronaphthalene	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
2-Chlorophenol	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
2-Methylnaphthalene	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
2-Methylphenol	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
2-Naphthylamine	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
2-Nitroaniline	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
2-Nitrophenol	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
2-Picoline	NA	ND(0.74)	ND(0.71)	ND(0.69)	NA	NA	ND(0.77)
3&4-Methylphenol	NA	ND(0.74)	ND(0.71)	ND(0.69)	NA	NA	ND(0.77)
3,3-Dichlorobenzidine	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
3,3'-Dimethylbenzidine	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
3-Methylcholanthrene	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
3-Nitroaniline	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
4,6-Dinitro-2-methylphenol	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
4-Aminobiphenyl	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
4-Bromophenyl-phenylether	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
4-Chloro-3-Methylphenol	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
4-Chloroaniline	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
4-Chlorobenzilate	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
4-Chlorophenyl-phenylether	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
4-Nitroaniline	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
4-Nitrophenol	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
4-Nitroquinoline-1-oxide	NA	ND(3.7)	ND(3.6)	ND(3.4)	NA	NA	ND(3.9)
4-Phenylenediamine	NA	ND(7.4)	ND(7.1)	ND(6.9)	NA	NA	ND(7.7)
5-Nitro-o-toluidine	NA	ND(0.74)	ND(0.71)	ND(0.69)	NA	NA	ND(0.77)
7,12-Dimethylbenz(a)anthracene	NA	ND(0.74)	ND(0.71)	ND(0.69)	NA	NA	ND(0.77)
a,a'-Dimethylphenethylamine	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
Acenaphthene	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	0.034 J
Acenaphthylene	NA	0.31 J	0.023 J	ND(0.34)	NA	NA	0.031 J
Acetophenone	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Aniline	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Anthracene	NA	0.088 J	ND(0.36)	ND(0.34)	NA	NA	0.093 J
Aramite	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
Benzidine	NA	ND(3.7)	ND(3.6)	ND(3.4)	NA	NA	ND(3.9)
Benzo(a)anthracene	NA	0.34 J	0.061 J	ND(0.34)	NA	NA	0.20 J
Benzo(a)pyrene	NA	0.58	0.076 J	ND(0.34)	NA	NA	0.20 J
Benzo(b)fluoranthene	NA	0.60	0.072 J	ND(0.34)	NA	NA	0.17 J
Benzo(g,h,i)perylene	NA	0.25 J	ND(0.36)	ND(0.34)	NA	NA	0.088 J
Benzo(k)fluoranthene	NA	0.56	0.077 J	ND(0.34)	NA	NA	0.19 J
Benzyl Alcohol	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
bis(2-Chloroethoxy)methane	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
bis(2-Chloroethyl)ether	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
bis(2-Chloroisopropyl)ether	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
bis(2-Ethylhexyl)phthalate	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Butylbenzylphthalate	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Chrysene	NA	0.41	0.088 J	ND(0.34)	NA	NA	0.22 J
Diallate	NA	ND(0.74)	ND(0.71)	ND(0.69)	NA	NA	ND(0.77)
Dibenzo(a,h)anthracene	NA	0.074 J	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-5						
	RAA15-C20	RAA15-C23	RAA15-C24	RAA15-C24	RAA15-C24	RAA15-C24	RAA15-C24
	8-10	0-1	1-3	3-6	4-6	10-12	10-15
	03/04/03	03/03/03	03/03/03	03/03/03	03/03/03	03/03/03	03/03/03
<b>Semivolatile Organics (continued)</b>							
Dibenzofuran	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Diethylphthalate	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Dimethylphthalate	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Di-n-Butylphthalate	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Di-n-Octylphthalate	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Diphenylamine	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Ethyl Methanesulfonate	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Fluoranthene	NA	0.52	0.12 J	ND(0.34)	NA	NA	0.45
Fluorene	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	0.041 J
Hexachlorobenzene	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Hexachlorobutadiene	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Hexachlorocyclopentadiene	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
Hexachloroethane	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Hexachlorophene	NA	ND(7.5)	ND(7.2)	ND(7.0)	NA	NA	ND(7.9)
Hexachloropropene	NA	ND(3.7)	ND(3.6)	ND(3.4)	NA	NA	ND(3.9)
Indeno(1,2,3-cd)pyrene	NA	0.26 J	ND(0.36)	ND(0.34)	NA	NA	0.098 J
Isodrin	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Isophorone	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Isosafrole	NA	ND(0.74)	ND(0.71)	ND(0.69)	NA	NA	ND(0.77)
Methapyrilene	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
Methyl Methanesulfonate	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Naphthalene	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	0.028 J
Nitrobenzene	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
N-Nitrosodiethylamine	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
N-Nitrosodimethylamine	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
N-Nitroso-di-n-butylamine	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
N-Nitroso-di-n-propylamine	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
N-Nitrosodiphenylamine	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
N-Nitrosomethylethylamine	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
N-Nitrosomorpholine	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
N-Nitrosopiperidine	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
N-Nitrosopyrrolidine	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
o,o,o-Triethylphosphorothioate	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
o-Toluidine	NA	ND(0.74)	ND(0.71)	ND(0.69)	NA	NA	ND(0.77)
p-Dimethylaminoazobenzene	NA	ND(0.74)	ND(0.71)	ND(0.69)	NA	NA	ND(0.77)
Pentachlorobenzene	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Pentachloroethane	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
Pentachloronitrobenzene	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
Pentachlorophenol	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
Phenacetin	NA	ND(0.74)	ND(0.71)	ND(0.69)	NA	NA	ND(0.77)
Phenanthrene	NA	0.14 J	0.052 J	ND(0.34)	NA	NA	0.34 J
Phenol	NA	ND(0.37)	ND(0.36)	ND(0.34)	NA	NA	ND(0.39)
Pronamide	NA	ND(0.74)	ND(0.71)	ND(0.69)	NA	NA	ND(0.77)
Pyrene	NA	0.41	0.10 J	ND(0.34)	NA	NA	0.33 J
Pyridine	NA	ND(0.74)	ND(0.71)	ND(0.69)	NA	NA	ND(0.77)
Safrole	NA	ND(0.74)	ND(0.71)	ND(0.69)	NA	NA	ND(0.77)
Thionazin	NA	ND(1.8)	ND(1.7)	ND(1.7)	NA	NA	ND(1.9)
<b>Furans</b>							
2,3,7,8-TCDF	NA	0.00000052 J	ND(0.0000047) X	ND(0.0000038) X	NA	NA	0.0000021
TCDFs (total)	NA	ND(0.0000041) X	ND(0.000024) X	ND(0.0000041) X	NA	NA	ND(0.000021) X
1,2,3,7,8-PeCDF	NA	ND(0.00000013)	0.0000011 J	0.00000017 J	NA	NA	0.00000093 J
2,3,4,7,8-PeCDF	NA	ND(0.00000012)	ND(0.0000012) X	ND(0.00000021) X	NA	NA	0.0000011 J
PeCDFs (total)	NA	ND(0.0000061) X	ND(0.000027) X	ND(0.0000091) X	NA	NA	ND(0.000029) X
1,2,3,4,7,8-HxCDF	NA	ND(0.00000015) X	0.0000015 J	0.00000022 J	NA	NA	0.0000010 J
1,2,3,6,7,8-HxCDF	NA	ND(0.00000055) X	ND(0.0000041) X	ND(0.00000091) X	NA	NA	ND(0.0000028) X
1,2,3,7,8,9-HxCDF	NA	ND(0.00000011)	ND(0.00000028)	0.00000019 J	NA	NA	0.00000079 J
2,3,4,6,7,8-HxCDF	NA	ND(0.00000019) X	ND(0.00000053) X	ND(0.00000023) X	NA	NA	0.00000090 J
HxCDFs (total)	NA	ND(0.0000035) X	ND(0.000027) X	ND(0.0000060) X	NA	NA	ND(0.000018) X
1,2,3,4,6,7,8-HpCDF	NA	0.00000041 J	0.000018 J	ND(0.00000070) X	NA	NA	0.0000043 J
1,2,3,4,7,8,9-HpCDF	NA	ND(0.00000018)	ND(0.00000043)	0.00000035 J	NA	NA	0.00000099 J
HpCDFs (total)	NA	0.00000082 J	0.000033 J	ND(0.0000017) X	NA	NA	0.0000083 J
OCDF	NA	ND(0.000001)	ND(0.000013)	ND(0.000011)	NA	NA	ND(0.0000047)

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Date Collected:	K10-11-5						
	RAA15-C20	RAA15-C23	RAA15-C24	RAA15-C24	RAA15-C24	RAA15-C24	RAA15-C24
	8-10	0-1	1-3	3-6	4-6	10-12	10-15
Parameter	03/04/03	03/03/03	03/03/03	03/03/03	03/03/03	03/03/03	03/03/03
<b>Dioxins</b>							
2,3,7,8-TCDD	NA	ND(0.00000028)	ND(0.00000067) X	ND(0.00000015)	NA	NA	ND(0.00000016)
TCDDs (total)	NA	ND(0.00000028)	ND(0.00000067) X	ND(0.00000015)	NA	NA	ND(0.00000016)
1,2,3,7,8-PeCDD	NA	ND(0.00000016)	ND(0.00000043)	ND(0.00000072)	NA	NA	ND(0.00000041) X
PeCDDs (total)	NA	ND(0.00000016)	ND(0.00000043)	ND(0.00000072)	NA	NA	ND(0.00000061) X
1,2,3,4,7,8-HxCDD	NA	ND(0.00000018)	ND(0.00000049)	ND(0.00000013) X	NA	NA	0.00000067 J
1,2,3,6,7,8-HxCDD	NA	ND(0.00000017)	ND(0.00000046)	0.00000019 J	NA	NA	0.00000062 J
1,2,3,7,8,9-HxCDD	NA	ND(0.00000018)	ND(0.00000048)	ND(0.00000022) X	NA	NA	0.00000066 QJ
HxCDDs (total)	NA	ND(0.00000018)	ND(0.00000028) X	ND(0.00000098) X	NA	NA	ND(0.00000031) XQJ
1,2,3,4,6,7,8-HpCDD	NA	ND(0.00000060) X	0.0000081 J	ND(0.00000074)	NA	NA	0.00000021 J
HpCDDs (total)	NA	ND(0.00000011) X	0.000016 J	0.0000013 J	NA	NA	0.00000033 J
OCDD	NA	ND(0.00000049) J	0.000079	ND(0.00000039)	NA	NA	0.000013
Total TEQs (WHO TEFs)	NA	0.00000039	0.0000019	0.00000034	NA	NA	0.0000018
<b>Inorganics</b>							
Antimony	NA	ND(6.70) J	ND(6.50) J	ND(6.20) J	NA	NA	ND(7.00) J
Arsenic	NA	2.50	2.60	2.30	NA	NA	3.50
Barium	NA	21.1 B	22.5	14.6 B	NA	NA	24.3
Beryllium	NA	ND(0.410)	ND(0.380)	ND(0.300)	NA	NA	ND(0.460)
Cadmium	NA	ND(0.560)	ND(0.540)	ND(0.520)	NA	NA	ND(0.590)
Chromium	NA	8.20	7.40	5.20	NA	NA	8.70
Cobalt	NA	4.80 B	4.80 B	4.20 B	NA	NA	7.90
Copper	NA	9.30	10.8	12.4	NA	NA	22.6
Cyanide	NA	ND(0.560)	ND(0.540)	ND(0.520)	NA	NA	ND(0.590)
Lead	NA	8.20 J	14.1 J	5.90	NA	NA	18.3 J
Mercury	NA	0.0370 B	0.0350 B	0.0260 B	NA	NA	0.0670
Nickel	NA	9.20	8.80	8.30	NA	NA	13.2
Selenium	NA	ND(0.560)	ND(0.540)	ND(0.520)	NA	NA	ND(0.590)
Silver	NA	ND(1.10)	ND(1.10)	ND(1.00)	NA	NA	ND(1.20)
Sulfide	NA	ND(11.1)	ND(10.8)	ND(10.4)	NA	NA	ND(11.7)
Thallium	NA	ND(1.10) J	ND(1.10) J	ND(1.00) J	NA	NA	ND(1.20) J
Tin	NA	ND(3.70)	ND(4.00)	ND(3.50)	NA	NA	ND(3.90)
Vanadium	NA	8.10	7.30	5.20	NA	NA	9.30
Zinc	NA	29.6	34.4	30.1	NA	NA	72.8



**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
**(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth (Feet): Parameter Date Collected:	K10-11-5			K10-12-1			
	RAA15-D21 0-1 03/04/03	RAA15-D25 0-1 03/04/03	RAA15-D27 0-1 03/04/03	RAA15-G4 0-1 03/04/03	RAA15-G4 1-3 03/04/03	RAA15-G4 3-6 03/04/03	RAA15-G4 4-6 03/04/03
	<b>Volatile Organics</b>						
1,1,1,2-Tetrachloroethane	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
1,1,1-Trichloroethane	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
1,1,2,2-Tetrachloroethane	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
1,1,2-Trichloroethane	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
1,1-Dichloroethane	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
1,1-Dichloroethene	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
1,2,3-Trichloropropane	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
1,2-Dibromo-3-chloropropane	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
1,2-Dibromoethane	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
1,2-Dichloroethane	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
1,2-Dichloropropane	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
1,4-Dioxane	ND(1.6) J	ND(1.7) J	ND(0.97) J	ND(0.87) J	ND(1.0) J	NA	ND(1.0) J
2-Butanone	ND(0.0080) J	ND(0.0086) J	ND(0.0049) J	ND(0.0043) J	ND(0.0051) J	NA	ND(0.0051) J
2-Chloro-1,3-butadiene	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
2-Chloroethylvinylether	ND(0.016) J	ND(0.017) J	ND(0.0097) J	ND(0.0087) J	ND(0.010) J	NA	ND(0.010) J
2-Hexanone	ND(0.032) J	ND(0.034) J	ND(0.019) J	ND(0.017) J	ND(0.020) J	NA	ND(0.020) J
3-Chloropropene	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
4-Methyl-2-pentanone	ND(0.032) J	ND(0.034) J	ND(0.019) J	ND(0.017) J	ND(0.020) J	NA	ND(0.020) J
Acetone	ND(0.032)	0.012 J	ND(0.019)	ND(0.017)	ND(0.020)	NA	ND(0.020)
Acetonitrile	ND(0.16) J	ND(0.17) J	ND(0.097) J	ND(0.087) J	ND(0.10) J	NA	ND(0.10) J
Acrolein	ND(0.16) J	ND(0.17) J	ND(0.097) J	ND(0.087) J	ND(0.10) J	NA	ND(0.10) J
Acrylonitrile	ND(0.16)	ND(0.17)	ND(0.097)	ND(0.087)	ND(0.10)	NA	ND(0.10)
Benzene	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Bromodichloromethane	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Bromoform	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Bromomethane	ND(0.0080) J	ND(0.0086) J	ND(0.0049) J	ND(0.0043) J	ND(0.0051) J	NA	ND(0.0051) J
Carbon Disulfide	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Carbon Tetrachloride	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Chlorobenzene	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Chloroethane	ND(0.016) J	ND(0.017) J	ND(0.0097) J	ND(0.0087) J	ND(0.010) J	NA	ND(0.010) J
Chloroform	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Chloromethane	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
cis-1,3-Dichloropropene	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Dibromochloromethane	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Dibromomethane	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Dichlorodifluoromethane	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Ethyl Methacrylate	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Ethylbenzene	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Iodomethane	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Isobutanol	ND(0.32) J	ND(0.34) J	ND(0.19) J	ND(0.17) J	ND(0.20) J	NA	ND(0.20) J
Methacrylonitrile	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Methyl Methacrylate	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Methylene Chloride	0.0049 J	0.0021 J	0.0035 J	0.0016 J	0.0014 J	NA	ND(0.0051)
Propionitrile	ND(0.016)	ND(0.017)	ND(0.0097)	ND(0.0087)	ND(0.010)	NA	ND(0.010)
Styrene	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Tetrachloroethene	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Toluene	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
trans-1,2-Dichloroethene	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
trans-1,3-Dichloropropene	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
trans-1,4-Dichloro-2-butene	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Trichloroethene	ND(0.0080)	0.0039 J	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Trichlorofluoromethane	ND(0.0080) J	ND(0.0086) J	ND(0.0049) J	ND(0.0043) J	ND(0.0051) J	NA	ND(0.0051) J
Vinyl Acetate	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
Vinyl Chloride	ND(0.016)	ND(0.017)	ND(0.0097)	ND(0.0087)	ND(0.010)	NA	ND(0.010)
Xylenes (total)	ND(0.0080)	ND(0.0086)	ND(0.0049)	ND(0.0043)	ND(0.0051)	NA	ND(0.0051)
<b>Semivolatile Organics</b>							
1,2,4,5-Tetrachlorobenzene	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
1,2,4-Trichlorobenzene	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
1,2-Dichlorobenzene	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
1,2-Diphenylhydrazine	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
1,3,5-Trinitrobenzene	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
1,3-Dichlorobenzene	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-5			K10-12-1			
	RAA15-D21 0-1 03/04/03	RAA15-D25 0-1 03/04/03	RAA15-D27 0-1 03/04/03	RAA15-G4 0-1 03/04/03	RAA15-G4 1-3 03/04/03	RAA15-G4 3-6 03/04/03	RAA15-G4 4-6 03/04/03
	<b>Semivolatile Organics (continued)</b>						
1,3-Dinitrobenzene	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
1,4-Dichlorobenzene	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
1,4-Naphthoquinone	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
1-Naphthylamine	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
2,3,4,6-Tetrachlorophenol	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
2,4,5-Trichlorophenol	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
2,4,6-Trichlorophenol	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
2,4-Dichlorophenol	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
2,4-Dimethylphenol	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
2,4-Dinitrophenol	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
2,4-Dinitrotoluene	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
2,6-Dichlorophenol	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
2,6-Dinitrotoluene	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
2-Acetylaminofluorene	ND(1.0)	ND(0.79)	ND(0.73)	ND(1.5)	ND(3.0)	ND(29)	NA
2-Chloronaphthalene	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
2-Chlorophenol	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
2-Methylnaphthalene	ND(0.52)	0.062 J	0.055 J	ND(0.76)	ND(1.5)	ND(14)	NA
2-Methylphenol	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
2-Naphthylamine	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
2-Nitroaniline	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
2-Nitrophenol	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
2-Picoline	ND(1.0)	ND(0.79)	ND(0.73)	ND(1.5)	ND(3.0)	ND(29)	NA
3&4-Methylphenol	ND(1.0)	ND(0.79)	ND(0.73)	ND(1.5)	ND(3.0)	ND(29)	NA
3,3'-Dichlorobenzidine	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
3,3'-Dimethylbenzidine	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
3-Methylcholanthrene	ND(2.5)	ND(1.9)	0.052 J	ND(3.7)	ND(7.3)	ND(70)	NA
3-Nitroaniline	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
4,6-Dinitro-2-methylphenol	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
4-Aminobiphenyl	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
4-Bromophenyl-phenylether	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
4-Chloro-3-Methylphenol	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
4-Chloroaniline	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
4-Chlorobenzilate	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
4-Chlorophenyl-phenylether	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
4-Nitroaniline	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
4-Nitrophenol	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
4-Nitroquinoline-1-oxide	ND(5.2)	ND(4.0)	ND(3.7)	ND(7.6)	ND(15)	ND(140)	NA
4-Phenylenediamine	ND(10)	ND(7.9)	ND(7.3)	ND(15)	ND(30)	ND(290)	NA
5-Nitro-o-toluidine	ND(1.0)	ND(0.79)	ND(0.73)	ND(1.5)	ND(3.0)	ND(29)	NA
7,12-Dimethylbenz(a)anthracene	ND(1.0)	ND(0.79)	ND(0.73)	ND(1.5)	ND(3.0)	ND(29)	NA
a,a'-Dimethylphenethylamine	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
Acenaphthene	ND(0.52)	ND(0.40)	0.054 J	0.061 J	0.16 J	ND(14)	NA
Acenaphthylene	0.084 J	0.14 J	0.38	ND(0.76)	0.75 J	ND(14)	NA
Acetophenone	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
Aniline	ND(0.52)	ND(0.40)	0.27 J	ND(0.76)	ND(1.5)	ND(14)	NA
Anthracene	ND(0.52)	0.090 J	0.36 J	0.15 J	0.69 J	ND(14)	NA
Aramite	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
Benzidine	ND(5.2)	ND(4.0)	ND(3.7)	ND(7.6)	ND(15)	ND(140)	NA
Benzo(a)anthracene	0.24 J	0.34 J	1.8	0.49 J	4.0	ND(14)	NA
Benzo(a)pyrene	0.29 J	0.40	2.1	0.54 J	4.1	ND(14)	NA
Benzo(b)fluoranthene	0.27 J	0.44	2.4	0.52 J	4.0	ND(14)	NA
Benzo(g,h,i)perylene	0.12 J	0.18 J	1.0	0.22 J	1.2 J	ND(14)	NA
Benzo(k)fluoranthene	0.30 J	0.40	1.2	0.51 J	4.1	ND(14)	NA
Benzyl Alcohol	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
bis(2-Chloroethoxy)methane	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
bis(2-Chloroethyl)ether	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
bis(2-Chloroisopropyl)ether	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
bis(2-Ethylhexyl)phthalate	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
Butylbenzylphthalate	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
Chrysene	0.34 J	0.46	2.1	0.57 J	4.0	ND(14)	NA
Diallate	ND(1.0)	ND(0.79)	ND(0.73)	ND(1.5)	ND(3.0)	ND(29)	NA
Dibenzo(a,h)anthracene	ND(0.52)	0.055 J	0.45	ND(0.76)	0.39 J	ND(14)	NA

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
**(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-11-5			K10-12-1			
	RAA15-D21 0-1 03/04/03	RAA15-D25 0-1 03/04/03	RAA15-D27 0-1 03/04/03	RAA15-G4 0-1 03/04/03	RAA15-G4 1-3 03/04/03	RAA15-G4 3-6 03/04/03	RAA15-G4 4-6 03/04/03
	<b>Semivolatile Organics (continued)</b>						
Dibenzofuran	ND(0.52)	0.051 J	0.037 J	ND(0.76)	ND(1.5)	ND(14)	NA
Diethylphthalate	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
Dimethylphthalate	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
Di-n-Butylphthalate	ND(0.52)	ND(0.40)	0.086 J	ND(0.76)	ND(1.5)	ND(14)	NA
Di-n-Octylphthalate	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
Diphenylamine	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
Ethyl Methanesulfonate	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
Fluoranthene	0.53	0.73	2.9	1.3	8.0	ND(14)	NA
Fluorene	ND(0.52)	ND(0.40)	0.075 J	ND(0.76)	ND(1.5)	ND(14)	NA
Hexachlorobenzene	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
Hexachlorobutadiene	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
Hexachlorocyclopentadiene	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
Hexachloroethane	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
Hexachlorophene	ND(11)	ND(8.0)	ND(7.4)	ND(16)	ND(30)	ND(290)	NA
Hexachloropropene	ND(5.2)	ND(4.0)	ND(3.7)	ND(7.6)	ND(15)	ND(140)	NA
Indeno(1,2,3-cd)pyrene	0.15 J	0.22 J	1.2	0.26 J	1.5	ND(14)	NA
Isodrin	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
Isophorone	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	45	NA
Isosafrole	ND(1.0)	ND(0.79)	ND(0.73)	ND(1.5)	ND(3.0)	ND(29)	NA
Methapyrilene	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
Methyl Methanesulfonate	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
Naphthalene	ND(0.52)	0.062 J	0.064 J	ND(0.76)	ND(1.5)	ND(14)	NA
Nitrobenzene	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
N-Nitrosodiethylamine	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
N-Nitrosodimethylamine	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
N-Nitroso-di-n-butylamine	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
N-Nitroso-di-n-propylamine	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
N-Nitrosodiphenylamine	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
N-Nitrosomethylethylamine	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
N-Nitrosomorpholine	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
N-Nitrosopiperidine	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
N-Nitrosopyrrolidine	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
o,o,o-Triethylphosphorothioate	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
o-Toluidine	ND(1.0)	ND(0.79)	ND(0.73)	ND(1.5)	ND(3.0)	ND(29)	NA
p-Dimethylaminoazobenzene	ND(1.0)	ND(0.79)	ND(0.73)	ND(1.5)	ND(3.0)	ND(29)	NA
Pentachlorobenzene	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
Pentachloroethane	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
Pentachloronitrobenzene	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
Pentachlorophenol	ND(2.5)	ND(1.9)	0.13 J	ND(3.7)	ND(7.3)	ND(70)	NA
Phenacetin	ND(1.0)	ND(0.79)	ND(0.73)	ND(1.5)	ND(3.0)	ND(29)	NA
Phenanthrene	0.25 J	0.32 J	1.1	0.66 J	2.1	ND(14)	NA
Phenol	ND(0.52)	ND(0.40)	ND(0.37)	ND(0.76)	ND(1.5)	ND(14)	NA
Pronamide	ND(1.0)	ND(0.79)	ND(0.73)	ND(1.5)	ND(3.0)	ND(29)	NA
Pyrene	0.38 J	0.53	2.6	0.77	5.4	ND(14)	NA
Pyridine	ND(1.0)	ND(0.79)	ND(0.73)	ND(1.5)	ND(3.0)	ND(29)	NA
Safrole	ND(1.0)	ND(0.79)	ND(0.73)	ND(1.5)	ND(3.0)	ND(29)	NA
Thionazin	ND(2.5)	ND(1.9)	ND(1.8)	ND(3.7)	ND(7.3)	ND(70)	NA
<b>Furans</b>							
2,3,7,8-TCDF	ND(0.000019) X	ND(0.000038) X	ND(0.000047) X	ND(0.000021) X	ND(0.000092) X	ND(0.000027) X	NA
TCDFs (total)	ND(0.00011) X	ND(0.00063) X	ND(0.00016) X	ND(0.00017) X	ND(0.00036) X	ND(0.00031) X	NA
1,2,3,7,8-PeCDF	0.0000056 J	0.0000011 J	0.0000017 J	ND(0.0000085) X	0.0000043 J	0.0000012 J	NA
2,3,4,7,8-PeCDF	0.0000049 J	0.0000017 J	0.0000025 J	0.0000012 J	0.0000046 J	0.0000011 J	NA
PeCDFs (total)	ND(0.000086) X	ND(0.00013) X	ND(0.00031) X	ND(0.00045) X	ND(0.00045) X	ND(0.00040) X	NA
1,2,3,4,7,8-HxCDF	0.0000052 J	0.0000026 J	0.0000032 J	0.0000019 J	0.0000053 J	0.0000022 J	NA
1,2,3,6,7,8-HxCDF	ND(0.0000095) X	ND(0.000019) X	ND(0.000054) X	ND(0.000023) X	ND(0.000030) X	ND(0.000034) X	NA
1,2,3,7,8,9-HxCDF	0.0000019 J	ND(0.0000018) X	ND(0.0000014) X	ND(0.0000017) X	ND(0.0000028) X	ND(0.0000020) X	NA
2,3,4,6,7,8-HxCDF	0.0000016 J	ND(0.000014) X	0.0000012 J	ND(0.0000061) X	0.0000023 J	0.0000066 J	NA
HxCDFs (total)	ND(0.000070) X	ND(0.00011) X	ND(0.00024) X	ND(0.00026) X	ND(0.00020) X	ND(0.00022) X	NA
1,2,3,4,6,7,8-HpCDF	0.000039	0.000026	0.0000068	0.0000043 J	0.000010	0.0000023 J	NA
1,2,3,4,7,8,9-HpCDF	ND(0.000012) X	0.0000020 J	ND(0.0000097) X	ND(0.0000030) X	0.0000020 J	0.0000063 J	NA
HpCDFs (total)	ND(0.000073) X	ND(0.000078) X	ND(0.000016) X	0.0000082 J	ND(0.000025) X	ND(0.000047) X	NA
OCDF	0.000031	0.000065	0.0000073 J	0.0000041 J	0.0000090 J	0.0000026 J	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Date Collected:	K10-11-5			K10-12-1			
	RAA15-D21 0-1 03/04/03	RAA15-D25 0-1 03/04/03	RAA15-D27 0-1 03/04/03	RAA15-G4 0-1 03/04/03	RAA15-G4 1-3 03/04/03	RAA15-G4 3-6 03/04/03	RAA15-G4 4-6 03/04/03
	Parameter						
<b>Dioxins</b>							
2,3,7,8-TCDD	ND(0.0000067) X	ND(0.0000041)	ND(0.0000025)	ND(0.0000027)	ND(0.0000029)	ND(0.0000034)	NA
TCDDs (total)	ND(0.0000031) X	ND(0.0000037) X	0.0000051 J	ND(0.0000043) X	ND(0.0000079) X	ND(0.0000034)	NA
1,2,3,7,8-PeCDD	ND(0.0000046) X	ND(0.0000052) X	ND(0.0000030) X	ND(0.0000018)	ND(0.0000068) X	ND(0.0000021)	NA
PeCDDs (total)	ND(0.0000035) X	ND(0.0000038) X	ND(0.0000029) X	ND(0.0000055) X	ND(0.0000084) X	ND(0.0000050) X	NA
1,2,3,4,7,8-HxCDD	0.0000050 J	ND(0.0000090) X	ND(0.0000032) X	ND(0.0000023)	0.0000049 J	ND(0.0000027)	NA
1,2,3,6,7,8-HxCDD	0.0000015 J	0.0000039 J	0.0000011 J	0.0000055 J	0.0000021 J	ND(0.0000035) X	NA
1,2,3,7,8,9-HxCDD	ND(0.000011) X	0.0000021 J	0.0000083 J	ND(0.0000044) X	0.0000016 J	ND(0.0000036) X	NA
HxCDDs (total)	ND(0.000011) X	ND(0.000025) X	ND(0.0000093) X	ND(0.0000058) X	ND(0.000022) X	ND(0.0000031) X	NA
1,2,3,4,6,7,8-HpCDD	0.00003	0.000073	0.0000074	0.0000092	0.000017	0.0000037 J	NA
HpCDDs (total)	0.000052	0.00016	0.000014	0.000018	0.000033	0.0000070 J	NA
OCDD	0.00028 J	0.00051 J	0.000044 J	0.000056 J	0.000095 J	0.000014	NA
Total TEQs (WHO TEFs)	0.0000064	0.0000046	0.0000054	0.0000015	0.0000065	0.0000016	NA
<b>Inorganics</b>							
Antimony	0.770 J	0.660 J	ND(6.60) J	ND(6.90) J	0.550 J	ND(6.50) J	NA
Arsenic	6.50	9.30	5.70	7.80	4.10	2.90	NA
Barium	138	30.8	39.1	23.6	35.9	49.8	NA
Beryllium	ND(0.780)	ND(0.410)	ND(0.420)	ND(0.330)	ND(0.320)	ND(0.310)	NA
Cadmium	0.0970 B	ND(0.600)	ND(0.550)	0.0780 B	0.0580 B	ND(0.540)	NA
Chromium	46.0	8.50	9.50	10.1	6.80	6.00	NA
Cobalt	10.0	6.10	9.40	11.2	4.40 B	2.40 B	NA
Copper	44.2 J	31.1 J	28.1 J	28.1 J	19.8 J	6.80 J	NA
Cyanide	0.320 B	ND(0.600)	ND(0.550)	ND(0.580)	0.240 B	ND(0.540)	NA
Lead	160	52.5	21.2	25.5	22.1	3.90	NA
Mercury	0.490	0.0730	0.0460	0.0380 B	0.0800	0.0230 B	NA
Nickel	19.4	12.9	17.7	23.2	9.30	5.70	NA
Selenium	ND(0.780) J	ND(0.600) J	ND(0.550) J	ND(0.580) J	ND(0.570) J	ND(0.540) J	NA
Silver	ND(1.60)	ND(1.20)	ND(1.10)	ND(1.20)	ND(1.10)	ND(1.10)	NA
Sulfide	ND(15.7)	ND(12.0)	ND(11.1)	ND(11.6)	ND(11.4)	ND(10.9)	NA
Thallium	0.970 J	ND(1.20) J	ND(0.960)	1.80 J	ND(1.10) J	ND(1.10) J	NA
Tin	ND(10.3)	ND(5.60)	ND(4.50)	ND(5.00)	ND(5.40)	ND(3.80)	NA
Vanadium	21.2	10.9	10.8	12.6	10.1	9.00	NA
Zinc	179	71.8	74.2	87.4	45.1	18.3	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-12-1						
	RAA15-G6 0-1 03/05/03	RAA15-G6 1-3 03/05/03	RAA15-G6 10-15 03/05/03	RAA15-G6 12-14 03/05/03	RAA15-J2 0-1 03/05/03	RAA15-J2 1-3 03/05/03	RAA15-J2 10-12 03/05/03
<b>Volatile Organics</b>							
1,1,1,2-Tetrachloroethane	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
1,1,1-Trichloroethane	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
1,1,2,2-Tetrachloroethane	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
1,1,2-Trichloroethane	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
1,1-Dichloroethane	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
1,1-Dichloroethene	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
1,2,3-Trichloropropane	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
1,2-Dibromo-3-chloropropane	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
1,2-Dibromoethane	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
1,2-Dichloroethane	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
1,2-Dichloropropane	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
1,4-Dioxane	ND(2.3) J	ND(0.99) J	NA	ND(1.2) J	ND(1.1) J	ND(1.1) J	ND(1.3) J
2-Butanone	0.0046 J	ND(0.0049) J	NA	ND(0.0062) J	ND(0.0053) J	ND(0.0056) J	ND(0.0065) J
2-Chloro-1,3-butadiene	ND(0.012) J	ND(0.0049) J	NA	ND(0.0062) J	ND(0.0053) J	ND(0.0056) J	ND(0.0065) J
2-Chloroethylvinylether	ND(0.023) J	ND(0.0099) J	NA	ND(0.012) J	ND(0.011) J	ND(0.011) J	ND(0.013) J
2-Hexanone	ND(0.046)	ND(0.020)	NA	ND(0.025)	ND(0.021)	ND(0.023)	ND(0.026)
3-Chloropropene	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
4-Methyl-2-pentanone	ND(0.046)	ND(0.020)	NA	ND(0.025)	ND(0.021)	ND(0.023)	ND(0.026)
Acetone	0.035 J	ND(0.020) J	NA	ND(0.025) J	ND(0.021) J	ND(0.023) J	ND(0.026) J
Acetonitrile	ND(0.23)	ND(0.099)	NA	ND(0.12)	ND(0.11)	ND(0.11)	ND(0.13)
Acrolein	ND(0.23) J	ND(0.099) J	NA	ND(0.12) J	ND(0.11) J	ND(0.11) J	ND(0.13) J
Acrylonitrile	ND(0.23) J	ND(0.099) J	NA	ND(0.12) J	ND(0.11) J	ND(0.11) J	ND(0.13) J
Benzene	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Bromodichloromethane	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Bromoform	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Bromomethane	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Carbon Disulfide	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Carbon Tetrachloride	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Chlorobenzene	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Chloroethane	ND(0.023)	ND(0.0099)	NA	ND(0.012)	ND(0.011)	ND(0.011)	ND(0.013)
Chloroform	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Chloromethane	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
cis-1,3-Dichloropropene	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Dibromochloromethane	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Dibromomethane	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Dichlorodifluoromethane	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Ethyl Methacrylate	ND(0.012) J	ND(0.0049) J	NA	ND(0.0062) J	ND(0.0053) J	ND(0.0056) J	ND(0.0065) J
Ethylbenzene	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Iodomethane	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Isobutanol	ND(0.46) J	ND(0.20) J	NA	ND(0.25) J	ND(0.21) J	ND(0.23) J	ND(0.26) J
Methacrylonitrile	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Methyl Methacrylate	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Methylene Chloride	0.0040 J	0.0014 J	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	0.0018 J
Propionitrile	ND(0.023)	ND(0.0099)	NA	ND(0.012)	ND(0.011)	ND(0.011)	ND(0.013)
Styrene	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Tetrachloroethene	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Toluene	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
trans-1,2-Dichloroethene	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
trans-1,3-Dichloropropene	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
trans-1,4-Dichloro-2-butene	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Trichloroethene	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Trichlorofluoromethane	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Vinyl Acetate	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
Vinyl Chloride	ND(0.023)	ND(0.0099)	NA	ND(0.012)	ND(0.011)	ND(0.011)	ND(0.013)
Xylenes (total)	ND(0.012)	ND(0.0049)	NA	ND(0.0062)	ND(0.0053)	ND(0.0056)	ND(0.0065)
<b>Semivolatile Organics</b>							
1,2,4,5-Tetrachlorobenzene	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
1,2,4-Trichlorobenzene	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
1,2-Dichlorobenzene	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
1,2-Diphenylhydrazine	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
1,3,5-Trinitrobenzene	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
1,3-Dichlorobenzene	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-12-1						
	RAA15-G6 0-1 03/05/03	RAA15-G6 1-3 03/05/03	RAA15-G6 10-15 03/05/03	RAA15-G6 12-14 03/05/03	RAA15-J2 0-1 03/05/03	RAA15-J2 1-3 03/05/03	RAA15-J2 10-12 03/05/03
<b>Semivolatile Organics (continued)</b>							
1,3-Dinitrobenzene	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
1,4-Dichlorobenzene	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
1,4-Naphthoquinone	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
1-Naphthylamine	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
2,3,4,6-Tetrachlorophenol	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
2,4,5-Trichlorophenol	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
2,4,6-Trichlorophenol	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
2,4-Dichlorophenol	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
2,4-Dimethylphenol	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
2,4-Dinitrophenol	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
2,4-Dinitrotoluene	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
2,6-Dichlorophenol	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
2,6-Dinitrotoluene	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
2-Acetylaminofluorene	ND(0.89)	ND(0.72)	ND(0.88)	NA	ND(0.81)	ND(0.72)	NA
2-Chloronaphthalene	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
2-Chlorophenol	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
2-Methylnaphthalene	ND(0.44)	ND(0.36)	ND(0.44)	NA	0.080 J	ND(0.36)	NA
2-Methylphenol	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
2-Naphthylamine	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
2-Nitroaniline	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
2-Nitrophenol	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
2-Picoline	ND(0.89)	ND(0.72)	ND(0.88)	NA	ND(0.81)	ND(0.72)	NA
3&4-Methylphenol	ND(0.89)	ND(0.72)	ND(0.88)	NA	ND(0.81)	ND(0.72)	NA
3,3'-Dichlorobenzidine	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
3,3'-Dimethylbenzidine	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
3-Methylcholanthrene	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
3-Nitroaniline	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
4,6-Dinitro-2-methylphenol	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
4-Aminobiphenyl	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
4-Bromophenyl-phenylether	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
4-Chloro-3-Methylphenol	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
4-Chloroaniline	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
4-Chlorobenzilate	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
4-Chlorophenyl-phenylether	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
4-Nitroaniline	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
4-Nitrophenol	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
4-Nitroquinoline-1-oxide	ND(4.4)	ND(3.6)	ND(4.4)	NA	ND(4.0)	ND(3.6)	NA
4-Phenylenediamine	ND(8.9)	ND(7.2)	ND(8.8)	NA	ND(8.1)	ND(7.2)	NA
5-Nitro-o-toluidine	ND(0.89)	ND(0.72)	ND(0.88)	NA	ND(0.81)	ND(0.72)	NA
7,12-Dimethylbenz(a)anthracene	ND(0.89)	ND(0.72)	ND(0.88)	NA	ND(0.81)	ND(0.72)	NA
a,a'-Dimethylphenethylamine	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
Acenaphthene	0.056 J	0.031 J	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Acenaphthylene	0.055 J	0.040 J	ND(0.44)	NA	0.56	0.11 J	NA
Acetophenone	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Aniline	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Anthracene	0.12 J	0.10 J	ND(0.44)	NA	0.16 J	0.048 J	NA
Aramite	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
Benzidine	ND(4.4)	ND(3.6)	ND(4.4)	NA	ND(4.0)	ND(3.6)	NA
Benzo(a)anthracene	0.38 J	0.26 J	ND(0.44)	NA	0.72	0.18 J	NA
Benzo(a)pyrene	0.45	0.26 J	ND(0.44)	NA	1.1	0.20 J	NA
Benzo(b)fluoranthene	0.44	0.26 J	ND(0.44)	NA	1.1	0.21 J	NA
Benzo(g,h,i)perylene	0.12 J	0.069 J	ND(0.44)	NA	0.41	0.078 J	NA
Benzo(k)fluoranthene	0.53	0.25 J	ND(0.44)	NA	0.98	0.22 J	NA
Benzyl Alcohol	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
bis(2-Chloroethoxy)methane	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
bis(2-Chloroethyl)ether	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
bis(2-Chloroisopropyl)ether	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
bis(2-Ethylhexyl)phthalate	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Butylbenzylphthalate	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Chrysene	0.49	0.29 J	ND(0.44)	NA	0.96	0.20 J	NA
Diallate	ND(0.89)	ND(0.72)	ND(0.88)	NA	ND(0.81)	ND(0.72)	NA
Dibenzo(a,h)anthracene	ND(0.44)	ND(0.36)	ND(0.44)	NA	0.14 J	ND(0.36)	NA

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
**(Results are presented in dry weight parts per million, ppm)**

Parameter	K10-12-1						
	RAA15-G6 0-1 03/05/03	RAA15-G6 1-3 03/05/03	RAA15-G6 10-15 03/05/03	RAA15-G6 12-14 03/05/03	RAA15-J2 0-1 03/05/03	RAA15-J2 1-3 03/05/03	RAA15-J2 10-12 03/05/03
	Parcel ID: Sample ID: Sample Depth(Feet): Date Collected:						
<b>Semivolatile Organics (continued)</b>							
Dibenzofuran	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Diethylphthalate	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Dimethylphthalate	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Di-n-Butylphthalate	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Di-n-Octylphthalate	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Diphenylamine	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Ethyl Methanesulfonate	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Fluoranthene	1.2	0.69	ND(0.44)	NA	1.3	0.44	NA
Fluorene	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Hexachlorobenzene	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Hexachlorobutadiene	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Hexachlorocyclopentadiene	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
Hexachloroethane	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Hexachlorophene	ND(9.0)	ND(7.3)	ND(8.9)	NA	ND(8.2)	ND(7.3)	NA
Hexachloropropene	ND(4.4)	ND(3.6)	ND(4.4)	NA	ND(4.0)	ND(3.6)	NA
Indeno(1,2,3-cd)pyrene	0.16 J	0.081 J	ND(0.44)	NA	0.44	0.099 J	NA
Isodrin	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Isophorone	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Isosafrole	ND(0.89)	ND(0.72)	ND(0.88)	NA	ND(0.81)	ND(0.72)	NA
Methapyrilene	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
Methyl Methanesulfonate	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Naphthalene	ND(0.44)	ND(0.36)	ND(0.44)	NA	0.076 J	ND(0.36)	NA
Nitrobenzene	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
N-Nitrosodiethylamine	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
N-Nitrosodimethylamine	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
N-Nitroso-di-n-butylamine	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
N-Nitroso-di-n-propylamine	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
N-Nitrosodiphenylamine	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
N-Nitrosomethylethylamine	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
N-Nitrosomorpholine	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
N-Nitrosopiperidine	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
N-Nitrosopyrrolidine	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
o,o,o-Triethylphosphorothioate	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
o-Toluidine	ND(0.89)	ND(0.72)	ND(0.88)	NA	ND(0.81)	ND(0.72)	NA
p-Dimethylaminoazobenzene	ND(0.89)	ND(0.72)	ND(0.88)	NA	ND(0.81)	ND(0.72)	NA
Pentachlorobenzene	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Pentachloroethane	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
Pentachloronitrobenzene	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
Pentachlorophenol	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
Phenacetin	ND(0.89)	ND(0.72)	ND(0.88)	NA	ND(0.81)	ND(0.72)	NA
Phenanthrene	0.58	0.44	ND(0.44)	NA	0.42	0.19 J	NA
Phenol	ND(0.44)	ND(0.36)	ND(0.44)	NA	ND(0.40)	ND(0.36)	NA
Pronamide	ND(0.89)	ND(0.72)	ND(0.88)	NA	ND(0.81)	ND(0.72)	NA
Pyrene	0.67	0.42	ND(0.44)	NA	1.1	0.25 J	NA
Pyridine	ND(0.89)	ND(0.72)	ND(0.88)	NA	ND(0.81)	ND(0.72)	NA
Safrole	ND(0.89)	ND(0.72)	ND(0.88)	NA	ND(0.81)	ND(0.72)	NA
Thionazin	ND(2.2)	ND(1.7)	ND(2.1)	NA	ND(2.0)	ND(1.7)	NA
<b>Furans</b>							
2,3,7,8-TCDF	ND(0.000052) X	0.000052	ND(0.0000018)	NA	0.000011 J	0.000086 J	NA
TCDFs (total)	ND(0.000024) X	ND(0.000018) X	ND(0.0000012) X	NA	ND(0.000090) X	ND(0.00015) X	NA
1,2,3,7,8-PeCDF	ND(0.0000089) X	ND(0.000017) X	ND(0.00000094)	NA	ND(0.000033) X	0.000025 J	NA
2,3,4,7,8-PeCDF	0.0000017 J	0.0000015 J	ND(0.00000090)	NA	0.0000084	0.0000030 J	NA
PeCDFs (total)	ND(0.000023) X	ND(0.000012) X	ND(0.00000092)	NA	ND(0.00015) X	ND(0.00030) X	NA
1,2,3,4,7,8-HxCDF	0.0000089 J	0.0000015 J	ND(0.00000056)	NA	0.0000088	0.0000046 J	NA
1,2,3,6,7,8-HxCDF	ND(0.0000016) X	ND(0.00000075) X	ND(0.00000052)	NA	ND(0.00018) X	ND(0.000037) X	NA
1,2,3,7,8,9-HxCDF	ND(0.00000099)	ND(0.00000098)	ND(0.00000066)	NA	0.0000056 J	0.0000020 J	NA
2,3,4,6,7,8-HxCDF	ND(0.00000035) X	ND(0.00000023) X	ND(0.00000060)	NA	0.0000067	0.0000019 J	NA
HxCDFs (total)	ND(0.000013) XQJ	ND(0.0000073) X	ND(0.00000058)	NA	ND(0.00074) X	ND(0.00017) X	NA
1,2,3,4,6,7,8-HpCDF	0.0000033 J	0.0000050 J	ND(0.00000097)	NA	0.000024	0.0000076	NA
1,2,3,4,7,8,9-HpCDF	ND(0.0000023) X	0.0000053 J	ND(0.00000012)	NA	0.0000038 J	0.0000015 J	NA
HpCDFs (total)	ND(0.000070) X	0.000012	ND(0.00000011)	NA	0.000063	ND(0.000019) X	NA
OCDF	0.0000057 J	0.000011 J	0.00000039 J	NA	0.000024	0.0000063 J	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	K10-12-1						
	RAA15-G6 0-1 03/05/03	RAA15-G6 1-3 03/05/03	RAA15-G6 10-15 03/05/03	RAA15-G6 12-14 03/05/03	RAA15-J2 0-1 03/05/03	RAA15-J2 1-3 03/05/03	RAA15-J2 10-12 03/05/03
	Parcel ID: Sample ID: Sample Depth(Feet): Date Collected:						
<b>Dioxins</b>							
2,3,7,8-TCDD	ND(0.00000025)	ND(0.00000026)	ND(0.00000023)	NA	ND(0.00000031)	ND(0.00000026)	NA
TCDDs (total)	ND(0.00000025)	ND(0.00000026)	ND(0.00000023)	NA	ND(0.00000022) X	0.00000051 J	NA
1,2,3,7,8-PeCDD	ND(0.00000013)	ND(0.00000014)	ND(0.00000011)	NA	ND(0.00000011) X	ND(0.00000033) X	NA
PeCDDs (total)	ND(0.00000029) X	ND(0.00000014)	ND(0.00000011)	NA	ND(0.000012) X	ND(0.00000025) X	NA
1,2,3,4,7,8-HxCDD	ND(0.00000014)	ND(0.00000015)	ND(0.00000011)	NA	0.0000011 J	0.00000022 J	NA
1,2,3,6,7,8-HxCDD	0.00000045 J	0.00000064 J	ND(0.00000099)	NA	0.0000028 J	ND(0.00000052) X	NA
1,2,3,7,8,9-HxCDD	0.00000045 JQ	ND(0.00000014)	ND(0.00000010)	NA	0.0000020 J	ND(0.00000025) X	NA
HxCDDs (total)	ND(0.00000034) XQJ	ND(0.00000027) X	ND(0.00000030) X	NA	ND(0.000029) X	ND(0.00000056) X	NA
1,2,3,4,6,7,8-HpCDD	0.0000074	0.000012	ND(0.00000027) X	NA	0.000023	0.0000034 J	NA
HpCDDs (total)	0.000013	0.000020	ND(0.00000045) X	NA	0.000048	0.0000064 J	NA
OCDD	0.000069	0.00013 J	0.0000021 QJ	NA	0.00015	0.000022	NA
Total TEQs (WHO TEFs)	0.0000017	0.0000020	0.00000023	NA	0.000018	0.0000055	NA
<b>Inorganics</b>							
Antimony	ND(8.10) J	ND(6.50) J	ND(8.00) J	NA	ND(7.30) J	ND(6.50) J	NA
Arsenic	2.30	1.80	2.00	NA	3.80	2.20	NA
Barium	24.9 B	23.0	19.3 B	NA	31.6	18.8 B	NA
Beryllium	0.340 B	0.300 B	0.320 B	NA	0.230 B	0.260 B	NA
Cadmium	ND(0.670)	ND(0.540)	ND(0.660)	NA	0.230 B	ND(0.540)	NA
Chromium	14.6	10.4	6.90	NA	7.40	7.70	NA
Cobalt	5.40 B	5.10 B	5.80 B	NA	5.00 B	4.40 B	NA
Copper	16.1	11.9	6.1	NA	32.6	11.1	NA
Cyanide	ND(0.670)	ND(0.540)	ND(0.660)	NA	ND(0.610)	ND(0.540)	NA
Lead	24.5	17.1	3.60	NA	76.8	14.5	NA
Mercury	0.200 J	0.160 J	ND(0.0440) J	NA	0.0800 J	0.0570 J	NA
Nickel	10.8	9.20	10.3	NA	10.9	9.50	NA
Selenium	ND(0.670)	ND(0.540)	ND(0.660)	NA	ND(0.610)	ND(0.540)	NA
Silver	ND(1.30)	ND(1.10)	ND(1.30)	NA	ND(1.20)	ND(1.10)	NA
Sulfide	ND(13.5)	ND(10.9)	ND(13.3)	NA	ND(12.2)	ND(10.8)	NA
Thallium	ND(1.30) J	ND(1.10) J	ND(1.30) J	NA	ND(1.20) J	ND(1.10) J	NA
Tin	ND(6.30)	ND(4.60)	ND(4.30)	NA	ND(5.30)	ND(4.10)	NA
Vanadium	10.2	7.80	8.30	NA	9.20	7.40	NA
Zinc	56.5	42.1	41.7	NA	79.1	38.6	NA



**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-12-1					
	RAA15-J2 10-15 03/05/03	RAA15-J4 0-1 03/05/03	RAA15-J4 3-6 03/05/03	RAA15-J4 4-6 03/05/03	RAA15-J4 6-8 03/05/03	RAA15-J4 6-10 03/05/03
<b>Volatile Organics</b>						
1,1,1,2-Tetrachloroethane	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
1,1,1-Trichloroethane	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
1,1,2,2-Tetrachloroethane	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
1,1,2-Trichloroethane	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
1,1-Dichloroethane	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
1,1-Dichloroethene	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
1,2,3-Trichloropropane	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
1,2-Dibromo-3-chloropropane	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
1,2-Dibromoethane	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
1,2-Dichloroethane	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
1,2-Dichloropropane	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
1,4-Dioxane	NA	ND(1.5) J	NA	ND(1.1) J	ND(0.95) J [ND(0.99) J]	NA
2-Butanone	NA	ND(0.0074) J	NA	ND(0.0057) J	ND(0.0048) J [ND(0.0050) J]	NA
2-Chloro-1,3-butadiene	NA	ND(0.0074) J	NA	ND(0.0057) J	ND(0.0048) J [ND(0.0050) J]	NA
2-Chloroethylvinylether	NA	ND(0.015) J	NA	ND(0.011) J	ND(0.0095) J [ND(0.0099) J]	NA
2-Hexanone	NA	ND(0.030)	NA	ND(0.023)	ND(0.019) [ND(0.020)]	NA
3-Chloropropene	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
4-Methyl-2-pentanone	NA	ND(0.030)	NA	ND(0.023)	ND(0.019) [ND(0.020)]	NA
Acetone	NA	ND(0.030) J	NA	ND(0.023) J	ND(0.019) J [ND(0.020) J]	NA
Acetonitrile	NA	ND(0.15)	NA	ND(0.11)	ND(0.095) [ND(0.099)]	NA
Acrolein	NA	ND(0.15) J	NA	ND(0.11) J	ND(0.095) J [ND(0.099) J]	NA
Acrylonitrile	NA	ND(0.15) J	NA	ND(0.11) J	ND(0.095) J [ND(0.099) J]	NA
Benzene	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Bromodichloromethane	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Bromoform	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Bromomethane	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Carbon Disulfide	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Carbon Tetrachloride	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Chlorobenzene	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Chloroethane	NA	ND(0.015)	NA	ND(0.011)	ND(0.0095) [ND(0.0099)]	NA
Chloroform	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Chloromethane	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
cis-1,3-Dichloropropene	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Dibromochloromethane	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Dibromomethane	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Dichlorodifluoromethane	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Ethyl Methacrylate	NA	ND(0.0074) J	NA	ND(0.0057) J	ND(0.0048) J [ND(0.0050) J]	NA
Ethylbenzene	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Iodomethane	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Isobutanol	NA	ND(0.30) J	NA	ND(0.23) J	ND(0.19) J [ND(0.20) J]	NA
Methacrylonitrile	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Methyl Methacrylate	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Methylene Chloride	NA	0.0019 J	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Propionitrile	NA	ND(0.015)	NA	ND(0.011)	ND(0.0095) [ND(0.0099)]	NA
Styrene	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Tetrachloroethene	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Toluene	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
trans-1,2-Dichloroethene	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
trans-1,3-Dichloropropene	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
trans-1,4-Dichloro-2-butene	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Trichloroethene	NA	0.00086 J	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Trichlorofluoromethane	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Vinyl Acetate	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
Vinyl Chloride	NA	ND(0.015)	NA	ND(0.011)	ND(0.0095) [ND(0.0099)]	NA
Xylenes (total)	NA	ND(0.0074)	NA	ND(0.0057)	ND(0.0048) [ND(0.0050)]	NA
<b>Semivolatile Organics</b>						
1,2,4,5-Tetrachlorobenzene	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
1,2,4-Trichlorobenzene	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
1,2-Dichlorobenzene	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
1,2-Diphenylhydrazine	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
1,3,5-Trinitrobenzene	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
1,3-Dichlorobenzene	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-12-1					
	RAA15-J2 10-15 03/05/03	RAA15-J4 0-1 03/05/03	RAA15-J4 3-6 03/05/03	RAA15-J4 4-6 03/05/03	RAA15-J4 6-8 03/05/03	RAA15-J4 6-10 03/05/03
<b>Semivolatile Organics (continued)</b>						
1,3-Dinitrobenzene	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
1,4-Dichlorobenzene	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
1,4-Naphthoquinone	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
1-Naphthylamine	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
2,3,4,6-Tetrachlorophenol	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
2,4,5-Trichlorophenol	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
2,4,6-Trichlorophenol	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
2,4-Dichlorophenol	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
2,4-Dimethylphenol	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
2,4-Dinitrophenol	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
2,4-Dinitrotoluene	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
2,6-Dichlorophenol	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
2,6-Dinitrotoluene	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
2-Acetylaminofluorene	ND(0.85)	ND(1.1)	ND(0.79)	NA	NA	ND(0.77) [ND(0.76)]
2-Chloronaphthalene	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
2-Chlorophenol	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
2-Methylnaphthalene	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
2-Methylphenol	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
2-Naphthylamine	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
2-Nitroaniline	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
2-Nitrophenol	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
2-Picoline	ND(0.85)	ND(1.1)	ND(0.79)	NA	NA	ND(0.77) [ND(0.76)]
3&4-Methylphenol	ND(0.85)	ND(1.1)	ND(0.79)	NA	NA	ND(0.77) [ND(0.76)]
3,3'-Dichlorobenzidine	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
3,3'-Dimethylbenzidine	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
3-Methylcholanthrene	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
3-Nitroaniline	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
4,6-Dinitro-2-methylphenol	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
4-Aminobiphenyl	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
4-Bromophenyl-phenylether	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
4-Chloro-3-Methylphenol	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
4-Chloroaniline	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
4-Chlorobenzilate	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
4-Chlorophenyl-phenylether	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
4-Nitroaniline	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
4-Nitrophenol	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
4-Nitroquinoline-1-oxide	ND(4.2)	ND(5.3)	ND(4.0)	NA	NA	ND(3.8) [ND(3.8)]
4-Phenylenediamine	ND(8.5)	ND(11)	ND(7.9)	NA	NA	ND(7.7) [ND(7.6)]
5-Nitro-o-toluidine	ND(0.85)	ND(1.1)	ND(0.79)	NA	NA	ND(0.77) [ND(0.76)]
7,12-Dimethylbenz(a)anthracene	ND(0.85)	ND(1.1)	ND(0.79)	NA	NA	ND(0.77) [ND(0.76)]
a,a'-Dimethylphenethylamine	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
Acenaphthene	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Acenaphthylene	ND(0.42)	0.13 J	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Acetophenone	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Aniline	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Anthracene	ND(0.42)	0.11 J	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Aramite	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
Benzidine	ND(4.2)	ND(5.3)	ND(4.0)	NA	NA	ND(3.8) [ND(3.8)]
Benzo(a)anthracene	ND(0.42)	0.42 J	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Benzo(a)pyrene	ND(0.42)	0.47 J	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Benzo(b)fluoranthene	ND(0.42)	0.50 J	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Benzo(g,h,i)perylene	ND(0.42)	0.13 J	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Benzo(k)fluoranthene	ND(0.42)	0.49 J	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Benzyl Alcohol	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
bis(2-Chloroethoxy)methane	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
bis(2-Chloroethyl)ether	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
bis(2-Chloroisopropyl)ether	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
bis(2-Ethylhexyl)phthalate	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Butylbenzylphthalate	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Chrysene	ND(0.42)	0.52 J	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Diallate	ND(0.85)	ND(1.1)	ND(0.79)	NA	NA	ND(0.77) [ND(0.76)]
Dibenzo(a,h)anthracene	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
**(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-12-1					
	RAA15-J2 10-15 03/05/03	RAA15-J4 0-1 03/05/03	RAA15-J4 3-6 03/05/03	RAA15-J4 4-6 03/05/03	RAA15-J4 6-8 03/05/03	RAA15-J4 6-10 03/05/03
<b>Semivolatile Organics (continued)</b>						
Dibenzofuran	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Diethylphthalate	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Dimethylphthalate	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Di-n-Butylphthalate	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Di-n-Octylphthalate	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Diphenylamine	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Ethyl Methanesulfonate	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Fluoranthene	ND(0.42)	1.0	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Fluorene	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Hexachlorobenzene	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Hexachlorobutadiene	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Hexachlorocyclopentadiene	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
Hexachloroethane	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Hexachlorophene	ND(8.6)	ND(11)	ND(8.1)	NA	NA	ND(7.8) [ND(7.7)]
Hexachloropropene	ND(4.2)	ND(5.3)	ND(4.0)	NA	NA	ND(3.8) [ND(3.8)]
Indeno(1,2,3-cd)pyrene	ND(0.42)	0.17 J	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Isodrin	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Isophorone	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Isosafrole	ND(0.85)	ND(1.1)	ND(0.79)	NA	NA	ND(0.77) [ND(0.76)]
Methapyrilene	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
Methyl Methanesulfonate	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Naphthalene	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Nitrobenzene	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
N-Nitrosodiethylamine	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
N-Nitrosodimethylamine	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
N-Nitroso-di-n-butylamine	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
N-Nitroso-di-n-propylamine	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
N-Nitrosodiphenylamine	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
N-Nitrosomethylethylamine	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
N-Nitrosomorpholine	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
N-Nitrosopiperidine	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
N-Nitrosopyrrolidine	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
o,o,o-Triethylphosphorothioate	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
o-Toluidine	ND(0.85)	ND(1.1)	ND(0.79)	NA	NA	ND(0.77) [ND(0.76)]
p-Dimethylaminoazobenzene	ND(0.85)	ND(1.1)	ND(0.79)	NA	NA	ND(0.77) [ND(0.76)]
Pentachlorobenzene	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Pentachloroethane	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
Pentachloronitrobenzene	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
Pentachlorophenol	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
Phenacetin	ND(0.85)	ND(1.1)	ND(0.79)	NA	NA	ND(0.77) [ND(0.76)]
Phenanthrene	ND(0.42)	0.52 J	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Phenol	ND(0.42)	ND(0.53)	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Pronamide	ND(0.85)	ND(1.1)	ND(0.79)	NA	NA	ND(0.77) [ND(0.76)]
Pyrene	ND(0.42)	0.73	ND(0.40)	NA	NA	ND(0.38) [ND(0.38)]
Pyridine	ND(0.85)	ND(1.1)	ND(0.79)	NA	NA	ND(0.77) [ND(0.76)]
Safrole	ND(0.85)	ND(1.1)	ND(0.79)	NA	NA	ND(0.77) [ND(0.76)]
Thioniazin	ND(2.1)	ND(2.6)	ND(1.9)	NA	NA	ND(1.9) [ND(1.8)]
<b>Furans</b>						
2,3,7,8-TCDF	ND(0.00000021)	ND(0.000034) XJ	ND(0.00000019)	NA	NA	ND(0.00000015) [ND(0.00000018)]
TCDFs (total)	ND(0.00000033) X	ND(0.00026) X	ND(0.00000019)	NA	NA	ND(0.00000015) [ND(0.00000012) X]
1,2,3,7,8-PeCDF	ND(0.00000013)	0.0000074 J	ND(0.00000011)	NA	NA	ND(0.000000083) [ND(0.00000010)]
2,3,4,7,8-PeCDF	ND(0.00000012) X	0.0000085	ND(0.00000010)	NA	NA	ND(0.000000080) [ND(0.000000096)]
PeCDFs (total)	ND(0.00000013) X	ND(0.00028) X	ND(0.000000093) X	NA	NA	ND(0.000000081) [ND(0.000000036) X]
1,2,3,4,7,8-HxCDF	ND(0.000000070) X	0.000012	ND(0.000000077)	NA	NA	ND(0.000000054) [ND(0.00000014) X]
1,2,3,6,7,8-HxCDF	ND(0.00000029) X	ND(0.000031) X	ND(0.00000019) X	NA	NA	0.000000070 J [ND(0.00000015) X]
1,2,3,7,8,9-HxCDF	ND(0.000000086)	ND(0.00000040) X	ND(0.000000091)	NA	NA	ND(0.000000063) [ND(0.000000070)]
2,3,4,6,7,8-HxCDF	ND(0.000000078)	0.0000050 J	ND(0.000000082)	NA	NA	ND(0.000000057) [ND(0.000000063)]
HxCDFs (total)	ND(0.00000012) X	ND(0.00036) X	ND(0.00000018) X	NA	NA	ND(0.000000047) X [ND(0.00000035) X]
1,2,3,4,6,7,8-HpCDF	0.00000021 J	0.00042	0.0000030 J	NA	NA	ND(0.00000026) X [0.00000060 J]
1,2,3,4,7,8,9-HpCDF	ND(0.00000013)	0.0000063 J	ND(0.00000013)	NA	NA	ND(0.000000098) [ND(0.00000010)]
HpCDFs (total)	0.00000021 J	ND(0.00080) X	0.0000058 J	NA	NA	ND(0.000000054) X [0.00000013 J]
OCDF	ND(0.00000019)	0.00026	0.0000028 J	NA	NA	0.00000046 J [0.00000040 J]

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	K10-12-1					
	RAA15-J2 10-15	RAA15-J4 0-1	RAA15-J4 3-6	RAA15-J4 4-6	RAA15-J4 6-8	RAA15-J4 6-10
	Sample ID: Sample Depth(Feet): Date Collected:	03/05/03	03/05/03	03/05/03	03/05/03	03/05/03
<b>Dioxins</b>						
2,3,7,8-TCDD	ND(0.0000026)	ND(0.0000061) X	ND(0.0000025)	NA	NA	ND(0.0000019) [ND(0.0000023)]
TCDDs (total)	ND(0.0000026)	ND(0.0000060) X	ND(0.0000025)	NA	NA	ND(0.0000019) [ND(0.0000023)]
1,2,3,7,8-PeCDD	ND(0.0000012)	ND(0.0000013) X	ND(0.0000012)	NA	NA	ND(0.00000089) [ND(0.00000093)]
PeCDDs (total)	ND(0.0000012)	ND(0.0000013) X	ND(0.0000012)	NA	NA	ND(0.00000089) [ND(0.00000093)]
1,2,3,4,7,8-HxCDD	ND(0.0000012)	ND(0.0000017) X	ND(0.0000014)	NA	NA	ND(0.00000092) [ND(0.0000011)]
1,2,3,6,7,8-HxCDD	ND(0.0000012)	0.000010	ND(0.0000013)	NA	NA	ND(0.00000087) [ND(0.00000099)]
1,2,3,7,8,9-HxCDD	ND(0.0000012)	0.000057 J	ND(0.0000013)	NA	NA	ND(0.00000090) [ND(0.0000010)]
HxCDDs (total)	ND(0.0000012)	0.000075 J	ND(0.0000013)	NA	NA	ND(0.00000089) [ND(0.0000010)]
1,2,3,4,6,7,8-HpCDD	ND(0.0000016)	0.00026	0.000021 J	NA	NA	ND(0.0000035) X [ND(0.0000012) X]
HpCDDs (total)	ND(0.0000016)	0.00046	0.000035 J	NA	NA	ND(0.0000035) X [ND(0.0000030) X]
OCDD	ND(0.0000092) X	0.0025	0.000026	NA	NA	ND(0.0000026) X [0.0000017 J]
Total TEQs (WHO TEFs)	0.0000028	0.000019	0.0000032	NA	NA	0.0000020 [0.0000024]
<b>Inorganics</b>						
Antimony	ND(7.70) J	ND(9.60) J	ND(7.20) J	NA	NA	ND(7.00) J [ND(6.90) J]
Arsenic	1.40	4.30	0.710 B	NA	NA	1.20 B [1.20]
Barium	20.6 B	50.9	14.9 B	NA	NA	8.10 B [8.60 B]
Beryllium	0.280 B	0.550 B	0.210 B	NA	NA	0.160 B [0.170 B]
Cadmium	ND(0.640)	ND(0.800)	ND(0.600)	NA	NA	ND(0.580) [ND(0.580)]
Chromium	6.30	21.3	4.60	NA	NA	4.70 [4.00]
Cobalt	4.70 B	8.50	3.50 B	NA	NA	4.00 B [4.20 B]
Copper	5.7	24.9	3.1	NA	NA	6.3 [6.8]
Cyanide	ND(0.640)	ND(0.350)	ND(0.600)	NA	NA	ND(0.580) [ND(0.580)]
Lead	3.20	46.2	2.10	NA	NA	2.80 [2.80]
Mercury	0.0310 J	0.190 J	ND(0.0400) J	NA	NA	ND(0.0390) J [0.0190 J]
Nickel	8.70	17.1	7.00	NA	NA	7.50 [7.60]
Selenium	ND(0.640)	ND(0.800)	ND(0.600)	NA	NA	ND(0.580) [ND(0.580)]
Silver	ND(1.30)	ND(1.60)	ND(1.20)	NA	NA	ND(1.20) [ND(1.20)]
Sulfide	ND(12.8)	ND(16.0)	ND(12.0)	NA	NA	ND(11.6) [ND(11.6)]
Thallium	ND(1.30) J	1.20 J	ND(1.20) J	NA	NA	ND(1.20) J [ND(1.20) J]
Tin	ND(3.90)	ND(6.90)	ND(3.30)	NA	NA	ND(3.40) [ND(3.50)]
Vanadium	7.60	17.6	5.10 B	NA	NA	5.00 B [5.00 B]
Zinc	35.6	90.3	27.2	NA	NA	22.9 [23.5]

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-12-1			K10-13-1				
	RAA15-J4S	RAA15-L3	RAA15-E2	RAA15-E2	RAA15-E2	RAA15-E2	RAA15-E2	RAA15-E2
	0-1 03/05/03	0-1 03/05/03	0-1 03/10/03	1-3 03/10/03	3-4 03/10/03	3-6 03/10/03	10-12 03/10/03	10-15 03/10/03
<b>Volatile Organics</b>								
1,1,1,2-Tetrachloroethane	NA	ND(0.0070)	ND(0.0058)	ND(0.0094)	ND(0.0054)	NA	ND(0.0060)	NA
1,1,1-Trichloroethane	NA	ND(0.0070)	ND(0.0058)	ND(0.0094)	ND(0.0054)	NA	ND(0.0060)	NA
1,1,2,2-Tetrachloroethane	NA	ND(0.0070)	ND(0.0058)	ND(0.0094)	ND(0.0054)	NA	ND(0.0060)	NA
1,1,2-Trichloroethane	NA	ND(0.0070)	ND(0.0058)	ND(0.0094)	ND(0.0054)	NA	ND(0.0060)	NA
1,1-Dichloroethane	NA	ND(0.0070)	ND(0.0058)	ND(0.0094)	ND(0.0054)	NA	ND(0.0060)	NA
1,1-Dichloroethene	NA	ND(0.0070)	ND(0.0058)	ND(0.0094)	ND(0.0054)	NA	ND(0.0060)	NA
1,2,3-Trichloropropane	NA	ND(0.0070)	ND(0.0058)	ND(0.0094)	ND(0.0054)	NA	ND(0.0060)	NA
1,2-Dibromo-3-chloropropane	NA	ND(0.0070)	ND(0.0058)	ND(0.0094)	ND(0.0054)	NA	ND(0.0060)	NA
1,2-Dibromoethane	NA	ND(0.0070)	ND(0.0058)	ND(0.0094)	ND(0.0054)	NA	ND(0.0060)	NA
1,2-Dichloroethane	NA	ND(0.0070)	ND(0.0058)	ND(0.0094)	ND(0.0054)	NA	ND(0.0060)	NA
1,2-Dichloropropane	NA	ND(0.0070)	ND(0.0058)	ND(0.0094)	ND(0.0054)	NA	ND(0.0060)	NA
1,4-Dioxane	NA	ND(1.4) J	ND(1.2) J	ND(1.9) J	ND(1.2) J	NA	ND(1.1) J	NA
2-Butanone	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0060) J	NA	ND(0.0054) J	NA
2-Chloro-1,3-butadiene	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
2-Chloroethylvinylether	NA	ND(0.014) J	ND(0.012) J	ND(0.019) J	ND(0.012) J	NA	ND(0.011) J	NA
2-Hexanone	NA	ND(0.028) J	ND(0.023) J	ND(0.038) J	ND(0.024) J	NA	ND(0.022) J	NA
3-Chloropropene	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0060) J	NA	ND(0.0054) J	NA
4-Methyl-2-pentanone	NA	ND(0.028) J	ND(0.023) J	ND(0.038) J	ND(0.022) J	NA	ND(0.024) J	NA
Acetone	NA	ND(0.028) J	ND(0.023) J	ND(0.038) J	ND(0.024) J	NA	ND(0.022) J	NA
Acetonitrile	NA	ND(0.14) J	ND(0.12) J	ND(0.19) J	ND(0.11) J	NA	ND(0.12) J	NA
Acrolein	NA	ND(0.14) J	ND(0.12) J	ND(0.19) J	ND(0.11) J	NA	ND(0.12) J	NA
Acrylonitrile	NA	ND(0.14) J	ND(0.12) J	ND(0.19) J	ND(0.11) J	NA	ND(0.12) J	NA
Benzene	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Bromodichloromethane	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Bromoform	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Bromomethane	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Carbon Disulfide	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Carbon Tetrachloride	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Chlorobenzene	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Chloroethane	NA	ND(0.014) J	ND(0.012) J	ND(0.019) J	ND(0.011) J	NA	ND(0.012) J	NA
Chloroform	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Chloromethane	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
cis-1,3-Dichloropropene	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Dibromochloromethane	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Dibromomethane	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Dichlorodifluoromethane	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Ethyl Methacrylate	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0060) J	NA	ND(0.0054) J	NA
Ethylbenzene	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Iodomethane	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Isobutanol	NA	ND(0.28) J	ND(0.23) J	ND(0.38) J	ND(0.24) J	NA	ND(0.22) J	NA
Methacrylonitrile	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0060) J	NA	ND(0.0054) J	NA
Methyl Methacrylate	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0060) J	NA	ND(0.0054) J	NA
Methylene Chloride	NA	0.0017 J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Propionitrile	NA	ND(0.014) J	ND(0.012) J	ND(0.019) J	ND(0.011) J	NA	ND(0.012) J	NA
Styrene	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Tetrachloroethene	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Toluene	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
trans-1,2-Dichloroethene	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
trans-1,3-Dichloropropene	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
trans-1,4-Dichloro-2-butene	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0060) J	NA	ND(0.0054) J	NA
Trichloroethene	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Trichlorofluoromethane	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
Vinyl Acetate	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0060) J	NA	ND(0.0054) J	NA
Vinyl Chloride	NA	ND(0.014) J	ND(0.012) J	ND(0.019) J	ND(0.011) J	NA	ND(0.012) J	NA
Xylenes (total)	NA	ND(0.0070) J	ND(0.0058) J	ND(0.0094) J	ND(0.0054) J	NA	ND(0.0060) J	NA
<b>Semivolatile Organics</b>								
1,2,4,5-Tetrachlorobenzene	NA	ND(0.43)	ND(1.5)	1.9	NA	ND(0.38)	NA	ND(0.36)
1,2,4-Trichlorobenzene	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
1,2-Dichlorobenzene	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
1,2-Diphenylhydrazine	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
1,3,5-Trinitrobenzene	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)
1,3-Dichlorobenzene	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-12-1				K10-13-1				
	RAA15-J4S	RAA15-L3	RAA15-E2	RAA15-E2	RAA15-E2	RAA15-E2	RAA15-E2	RAA15-E2	RAA15-E2
	0-1 03/05/03	0-1 03/05/03	0-1 03/10/03	1-3 03/10/03	3-4 03/10/03	3-6 03/10/03	10-12 03/10/03	10-15 03/10/03	
<b>Semivolatile Organics (continued)</b>									
1,3-Dinitrobenzene	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
1,4-Dichlorobenzene	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
1,4-Naphthoquinone	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)	
1-Naphthylamine	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
2,3,4,6-Tetrachlorophenol	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
2,4,5-Trichlorophenol	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
2,4,6-Trichlorophenol	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
2,4-Dichlorophenol	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
2,4-Dimethylphenol	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
2,4-Dinitrophenol	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)	
2,4-Dinitrotoluene	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
2,6-Dichlorophenol	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
2,6-Dinitrotoluene	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
2-Acetylaminofluorene	NA	ND(0.87)	ND(3.1)	ND(3.3)	NA	ND(0.76)	NA	ND(0.73)	
2-Chloronaphthalene	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
2-Chlorophenol	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
2-Methylnaphthalene	NA	ND(0.43)	ND(1.5)	0.15 J	NA	0.080 J	NA	ND(0.36)	
2-Methylphenol	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
2-Naphthylamine	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
2-Nitroaniline	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)	
2-Nitrophenol	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
2-Picoline	NA	ND(0.87)	ND(3.1)	ND(3.3)	NA	ND(0.76)	NA	ND(0.73)	
3&4-Methylphenol	NA	ND(0.87)	ND(3.1)	ND(3.3)	NA	ND(0.76)	NA	ND(0.73)	
3,3'-Dichlorobenzidine	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)	
3,3'-Dimethylbenzidine	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)	
3-Methylcholanthrene	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)	
3-Nitroaniline	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)	
4,6-Dinitro-2-methylphenol	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)	
4-Aminobiphenyl	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)	
4-Bromophenyl-phenylether	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
4-Chloro-3-Methylphenol	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
4-Chloroaniline	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
4-Chlorobenzilate	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
4-Chlorophenyl-phenylether	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
4-Nitroaniline	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)	
4-Nitrophenol	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)	
4-Nitroquinoline-1-oxide	NA	ND(4.3)	ND(15)	ND(16)	NA	ND(3.8)	NA	ND(3.6)	
4-Phenylenediamine	NA	ND(8.7)	ND(31)	ND(33)	NA	ND(7.6)	NA	ND(7.3)	
5-Nitro-o-toluidine	NA	ND(0.87)	ND(3.1)	ND(3.3)	NA	ND(0.76)	NA	ND(0.73)	
7,12-Dimethylbenz(a)anthracene	NA	ND(0.87)	ND(3.1)	ND(3.3)	NA	ND(0.76)	NA	ND(0.73)	
a,a'-Dimethylphenethylamine	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)	
Acenaphthene	NA	ND(0.43)	ND(1.5)	0.13 J	NA	0.13 J	NA	ND(0.36)	
Acenaphthylene	NA	0.037 J	ND(1.5)	0.42 J	NA	0.13 J	NA	ND(0.36)	
Acetophenone	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
Aniline	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
Anthracene	NA	ND(0.43)	ND(1.5)	0.59 J	NA	0.46	NA	ND(0.36)	
Aramite	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)	
Benzenzidine	NA	ND(4.3)	ND(15)	ND(16)	NA	ND(3.8)	NA	ND(3.6)	
Benzo(a)anthracene	NA	0.17 J	0.28 J	1.7	NA	0.91	NA	ND(0.36)	
Benzo(a)pyrene	NA	0.19 J	0.21 J	1.9	NA	0.95	NA	ND(0.36)	
Benzo(b)fluoranthene	NA	0.20 J	0.17 J	1.8	NA	1.1	NA	ND(0.36)	
Benzo(g,h,i)perylene	NA	ND(0.43)	ND(1.5)	1.1 J	NA	0.35 J	NA	ND(0.36)	
Benzo(k)fluoranthene	NA	0.20 J	ND(1.5)	1.9	NA	0.68	NA	ND(0.36)	
Benzyl Alcohol	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
bis(2-Chloroethoxy)methane	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
bis(2-Chloroethyl)ether	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
bis(2-Chloroisopropyl)ether	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
bis(2-Ethylhexyl)phthalate	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
Butylbenzylphthalate	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)	
Chrysene	NA	0.21 J	0.38 J	2.3	NA	1.0	NA	ND(0.36)	
Diallate	NA	ND(0.87)	ND(3.1)	ND(3.3)	NA	ND(0.76)	NA	ND(0.73)	
Dibenzo(a,h)anthracene	NA	ND(0.43)	ND(1.5)	0.42 J	NA	0.13 J	NA	ND(0.36)	

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	K10-12-1		K10-13-1					
	RAA15-J4S	RAA15-L3	RAA15-E2	RAA15-E2	RAA15-E2	RAA15-E2	RAA15-E2	RAA15-E2
	0-1 03/05/03	0-1 03/05/03	0-1 03/10/03	1-3 03/10/03	3-4 03/10/03	3-6 03/10/03	10-12 03/10/03	10-15 03/10/03
<b>Semivolatile Organics (continued)</b>								
Dibenzofuran	NA	ND(0.43)	ND(1.5)	0.15 J	NA	0.14 J	NA	ND(0.36)
Diethylphthalate	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
Dimethylphthalate	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
Di-n-Butylphthalate	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
Di-n-Octylphthalate	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
Diphenylamine	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
Ethyl Methanesulfonate	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
Fluoranthene	NA	0.43	0.44 J	3.2	NA	2.2	NA	ND(0.36)
Fluorene	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	0.14 J	NA	ND(0.36)
Hexachlorobenzene	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
Hexachlorobutadiene	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
Hexachlorocyclopentadiene	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)
Hexachloroethane	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
Hexachlorophene	NA	ND(8.8)	ND(31)	ND(33)	NA	ND(7.7)	NA	ND(7.4)
Hexachloropropene	NA	ND(4.3)	ND(15)	ND(16)	NA	ND(3.8)	NA	ND(3.6)
Indeno(1,2,3-cd)pyrene	NA	0.073 J	ND(1.5)	1.2 J	NA	0.40	NA	ND(0.36)
Isodrin	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
Isophorone	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	0.15 J	NA	ND(0.36)
Isosafrole	NA	ND(0.87)	ND(3.1)	ND(3.3)	NA	ND(0.76)	NA	ND(0.73)
Methapyrilene	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)
Methyl Methanesulfonate	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
Naphthalene	NA	ND(0.43)	ND(1.5)	0.23 J	NA	0.15 J	NA	ND(0.36)
Nitrobenzene	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
N-Nitrosodiethylamine	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
N-Nitrosodimethylamine	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
N-Nitroso-di-n-butylamine	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
N-Nitroso-di-n-propylamine	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
N-Nitrosodiphenylamine	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
N-Nitrosomethylethylamine	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
N-Nitrosomorpholine	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
N-Nitrosopiperidine	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
N-Nitrosopyrrolidine	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
o,o,o-Triethylphosphorothioate	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)
o-Toluidine	NA	ND(0.87)	ND(3.1)	ND(3.3)	NA	ND(0.76)	NA	ND(0.73)
p-Dimethylaminoazobenzene	NA	ND(0.87)	ND(3.1)	ND(3.3)	NA	ND(0.76)	NA	ND(0.73)
Pentachlorobenzene	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
Pentachloroethane	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)
Pentachloronitrobenzene	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)
Pentachlorophenol	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)
Phenacetin	NA	ND(0.87)	ND(3.1)	ND(3.3)	NA	ND(0.76)	NA	ND(0.73)
Phenanthrene	NA	0.18 J	0.21 J	2.4	NA	1.8	NA	ND(0.36)
Phenol	NA	ND(0.43)	ND(1.5)	ND(1.6)	NA	ND(0.38)	NA	ND(0.36)
Pronamide	NA	ND(0.87)	ND(3.1)	ND(3.3)	NA	ND(0.76)	NA	ND(0.73)
Pyrene	NA	0.27 J	0.52 J	2.4	NA	1.4	NA	ND(0.36)
Pyridine	NA	ND(0.87)	ND(3.1)	ND(3.3)	NA	ND(0.76)	NA	ND(0.73)
Safrole	NA	ND(0.87)	ND(3.1)	ND(3.3)	NA	ND(0.76)	NA	ND(0.73)
Thionazin	NA	ND(2.1)	ND(7.5)	ND(7.9)	NA	ND(1.8)	NA	ND(1.8)
<b>Furans</b>								
2,3,7,8-TCDF	ND(0.000021)X	ND(0.000033) X	ND(0.000089) X	0.00014	NA	0.000017	NA	ND(0.0000030)
TCDFs (total)	ND(0.0023) X	ND(0.00046) X	ND(0.00099) X	ND(0.0016) X	NA	ND(0.00046) X	NA	ND(0.0000030)
1,2,3,7,8-PeCDF	0.0000067	0.0000011 J	0.0000056 J	0.000069	NA	ND(0.000011) X	NA	ND(0.0000020)
2,3,4,7,8-PeCDF	0.000018	0.0000015 J	0.0000070	0.000085	NA	0.000023	NA	ND(0.0000019)
PeCDFs (total)	ND(0.0029) X	ND(0.00062) X	ND(0.0014) X	ND(0.0084) X	NA	ND(0.00028) X	NA	ND(0.0000019)
1,2,3,4,7,8-HxCDF	0.000016	ND(0.000020) X	0.000013	0.000064	NA	ND(0.000017) X	NA	0.0000032 J
1,2,3,6,7,8-HxCDF	ND(0.00016) X	ND(0.000079) X	ND(0.00013) X	0.000054 J	NA	ND(0.000099) X	NA	ND(0.0000012)
1,2,3,7,8,9-HxCDF	ND(0.0000081) X	0.0000026 J	ND(0.0000041) X	ND(0.000036) X	NA	ND(0.0000067) X	NA	ND(0.0000016)
2,3,4,6,7,8-HxCDF	0.000015	ND(0.000011) X	0.000044 J	0.000045 J	NA	ND(0.000014) X	NA	ND(0.0000014)
HxCDFs (total)	ND(0.0010) X	ND(0.000075) X	ND(0.000099) X	ND(0.00048) X	NA	ND(0.00012) X	NA	0.0000032 J
1,2,3,4,6,7,8-HpCDF	0.000029	0.000055	0.000014	0.00013	NA	0.000033	NA	ND(0.0000029)
1,2,3,4,7,8,9-HpCDF	0.0000042 J	0.0000016 J	0.0000033 J	0.000019 J	NA	ND(0.0000020) X	NA	ND(0.0000036)
HpCDFs (total)	0.000069	0.00011	ND(0.000032) X	0.00019	NA	ND(0.000044) X	NA	ND(0.0000032)
OCDF	0.000015	0.000049	0.000013	0.000057 J	NA	0.000086 J	NA	ND(0.0000072)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	K10-12-1			K10-13-1				
	RAA15-J4S	RAA15-L3	RAA15-E2	RAA15-E2	RAA15-E2	RAA15-E2	RAA15-E2	RAA15-E2
	0-1 03/05/03	0-1 03/05/03	0-1 03/10/03	1-3 03/10/03	3-4 03/10/03	3-6 03/10/03	10-12 03/10/03	10-15 03/10/03
<b>Dioxins</b>								
2,3,7,8-TCDD	ND(0.0000026)	ND(0.0000029)	ND(0.0000028)	ND(0.0000030) X	NA	ND(0.0000075) X	NA	ND(0.0000040)
TCDDs (total)	ND(0.000044) X	ND(0.000011) X	ND(0.0000094) X	ND(0.000049) X	NA	ND(0.000025) X	NA	ND(0.0000040)
1,2,3,7,8-PeCDD	0.000022 J	ND(0.0000033) X	ND(0.000017) X	ND(0.000037) X	NA	0.000018 J	NA	ND(0.0000024)
PeCDDs (total)	ND(0.000032) X	ND(0.000022) X	ND(0.000058) X	ND(0.000059) X	NA	ND(0.000030) X	NA	ND(0.0000024)
1,2,3,4,7,8-HxCDD	0.000026 J	ND(0.0000040) X	ND(0.0000040) X	0.000047 J	NA	0.000018 J	NA	ND(0.0000029)
1,2,3,6,7,8-HxCDD	0.000011	0.000022 J	ND(0.0000082) X	0.000055 J	NA	0.000020 J	NA	ND(0.0000028)
1,2,3,7,8,9-HxCDD	0.000070	0.000015 J	ND(0.0000033) XQJ	ND(0.000011) X	NA	0.000041 J	NA	ND(0.0000028)
HxCDDs (total)	ND(0.00012) X	ND(0.000019) X	ND(0.000011) XQJ	ND(0.000081) X	NA	ND(0.000033) X	NA	ND(0.0000028)
1,2,3,4,6,7,8-HpCDD	0.000041	0.000049	0.000011	0.000043 J	NA	0.000076 QJ	NA	ND(0.0000057)
HpCDDs (total)	0.00014	0.000089	0.000022	0.000082 J	NA	0.000018 QJ	NA	ND(0.0000057)
OCDD	0.00012	0.00050	0.000075	0.000084 J	NA	0.000017 J	NA	ND(0.0000030) J
Total TEQs (WHO TEFs)	0.000027	0.000034	0.000080	0.000083	NA	0.000019	NA	0.0000049
<b>Inorganics</b>								
Antimony	NA	ND(7.90) J	5.00 B	969	NA	115	NA	0.480 B
Arsenic	NA	2.40	3.40	19.1	NA	6.50	NA	4.00
Barium	NA	27.7	102 J	1810	NA	648 J	NA	33.8 J
Beryllium	NA	0.280 B	0.230 B	0.300 B	NA	0.380 B	NA	0.400 B
Cadmium	NA	ND(0.660)	0.130 B	5.00	NA	5.40	NA	ND(0.550)
Chromium	NA	10.1	6.90	39.7	NA	17.1	NA	7.80
Cobalt	NA	5.90 B	6.50	10.2	NA	8.50	NA	7.90
Copper	NA	12.7	301 J	8860 J	NA	2410	NA	16.5 J
Cyanide	NA	ND(0.290)	ND(0.580)	0.400 B	NA	0.320 B	NA	ND(0.550)
Lead	NA	15.2	367 J	14000 J	NA	9560	NA	9.60 J
Mercury	NA	0.0330 J	1.80 J	10.4	NA	6.4	NA	0.450 J
Nickel	NA	11.3	10.7	38.7	NA	17.0	NA	13.6
Selenium	NA	ND(0.660)	ND(0.580)	1.20 B	NA	ND(0.570)	NA	ND(0.550)
Silver	NA	ND(1.30)	0.130 B	5.50	NA	2.30	NA	ND(1.10)
Sulfide	NA	ND(13.1)	ND(11.7)	ND(12.4)	NA	ND(11.5)	NA	ND(11.0)
Thallium	NA	ND(1.30) J	ND(1.20)	ND(6.20)	NA	ND(5.70)	NA	ND(1.10)
Tin	NA	ND(4.70)	34.5 J	3300 J	NA	2750 J	NA	ND(3.90)
Vanadium	NA	10.3	7.20	22.9	NA	11.0	NA	8.80
Zinc	NA	56.2	66.8	3230	NA	2790	NA	49.9



**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
**(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-13-1							
	RAA15-E2NE	RAA15-E2NW	RAA15-E2SE	RAA15-E2SW	RAA15-F2	RAA15-F2	RAA15-F2	RAA15-F2
	1-3 05/05/04	1-3 05/05/04	1-3 05/05/04	1-3 05/05/04	0-1 03/10/03	1-3 03/10/03	6-10 03/10/03	8-10 03/10/03
<b>Volatile Organics</b>								
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
1,1,1-Trichloroethane	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
1,1,2-Trichloroethane	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
1,1-Dichloroethane	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
1,1-Dichloroethene	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
1,2,3-Trichloropropane	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
1,2-Dibromoethane	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
1,2-Dichloroethane	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
1,2-Dichloropropane	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
1,4-Dioxane	NA	NA	NA	NA	ND(1.8) J	ND(0.93) J	NA	ND(0.94) J
2-Butanone	NA	NA	NA	NA	ND(0.0088) J	ND(0.0047) J	NA	ND(0.0047) J
2-Chloro-1,3-butadiene	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
2-Chloroethylvinylether	NA	NA	NA	NA	ND(0.018) J	ND(0.0093) J	NA	ND(0.0094) J
2-Hexanone	NA	NA	NA	NA	ND(0.035) J	ND(0.019) J	NA	ND(0.019) J
3-Chloropropene	NA	NA	NA	NA	ND(0.0088) J	ND(0.0047) J	NA	ND(0.0047) J
4-Methyl-2-pentanone	NA	NA	NA	NA	ND(0.035)	ND(0.019)	NA	ND(0.019)
Acetone	NA	NA	NA	NA	ND(0.035) J	ND(0.019) J	NA	ND(0.019) J
Acetonitrile	NA	NA	NA	NA	ND(0.18)	ND(0.093)	NA	ND(0.094)
Acrolein	NA	NA	NA	NA	ND(0.18)	ND(0.093)	NA	ND(0.094)
Acrylonitrile	NA	NA	NA	NA	ND(0.18)	ND(0.093)	NA	ND(0.094)
Benzene	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Bromodichloromethane	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Bromoform	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Bromomethane	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Carbon Disulfide	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Carbon Tetrachloride	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Chlorobenzene	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Chloroethane	NA	NA	NA	NA	ND(0.018)	ND(0.0093)	NA	ND(0.0094)
Chloroform	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Chloromethane	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
cis-1,3-Dichloropropene	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Dibromochloromethane	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Dibromomethane	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Dichlorodifluoromethane	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Ethyl Methacrylate	NA	NA	NA	NA	ND(0.0088) J	ND(0.0047) J	NA	ND(0.0047) J
Ethylbenzene	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Iodomethane	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Isobutanol	NA	NA	NA	NA	ND(0.35) J	ND(0.19) J	NA	ND(0.19) J
Methacrylonitrile	NA	NA	NA	NA	ND(0.0088) J	ND(0.0047) J	NA	ND(0.0047) J
Methyl Methacrylate	NA	NA	NA	NA	ND(0.0088) J	ND(0.0047) J	NA	ND(0.0047) J
Methylene Chloride	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Propionitrile	NA	NA	NA	NA	ND(0.018)	ND(0.0093)	NA	ND(0.0094)
Styrene	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Tetrachloroethene	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Toluene	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
trans-1,2-Dichloroethene	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
trans-1,3-Dichloropropene	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
trans-1,4-Dichloro-2-butene	NA	NA	NA	NA	ND(0.0088) J	ND(0.0047) J	NA	ND(0.0047) J
Trichloroethene	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Trichlorofluoromethane	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
Vinyl Acetate	NA	NA	NA	NA	ND(0.0088) J	ND(0.0047) J	NA	ND(0.0047) J
Vinyl Chloride	NA	NA	NA	NA	ND(0.018)	ND(0.0093)	NA	ND(0.0094)
Xylenes (total)	NA	NA	NA	NA	ND(0.0088)	ND(0.0047)	NA	ND(0.0047)
<b>Semivolatile Organics</b>								
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
1,2-Diphenylhydrazine	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
1,3,5-Trinitrobenzene	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-13-1							
	RAA15-E2NE	RAA15-E2NW	RAA15-E2SE	RAA15-E2SW	RAA15-F2	RAA15-F2	RAA15-F2	RAA15-F2
	1-3 05/05/04	1-3 05/05/04	1-3 05/05/04	1-3 05/05/04	0-1 03/10/03	1-3 03/10/03	6-10 03/10/03	8-10 03/10/03
<b>Semivolatile Organics (continued)</b>								
1,3-Dinitrobenzene	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
1,4-Naphthoquinone	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
1-Naphthylamine	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
2,3,4,6-Tetrachlorophenol	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
2,4,6-Trichlorophenol	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
2,4-Dichlorophenol	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
2,4-Dimethylphenol	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
2,4-Dinitrophenol	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
2,4-Dinitrotoluene	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
2,6-Dichlorophenol	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
2,6-Dinitrotoluene	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
2-Acetylaminofluorene	NA	NA	NA	NA	ND(0.91)	ND(0.69)	ND(0.71)	NA
2-Chloronaphthalene	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
2-Chlorophenol	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
2-Methylnaphthalene	NA	NA	NA	NA	0.034 J	ND(0.35)	ND(0.36)	NA
2-Methylphenol	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
2-Naphthylamine	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
2-Nitroaniline	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
2-Nitrophenol	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
2-Picoline	NA	NA	NA	NA	ND(0.91)	ND(0.69)	ND(0.71)	NA
3&4-Methylphenol	NA	NA	NA	NA	ND(0.91)	ND(0.69)	ND(0.71)	NA
3,3'-Dichlorobenzidine	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
3,3'-Dimethylbenzidine	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
3-Methylcholanthrene	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
3-Nitroaniline	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
4-Aminobiphenyl	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
4-Bromophenyl-phenylether	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
4-Chloro-3-Methylphenol	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
4-Chloroaniline	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
4-Chlorobenzilate	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
4-Chlorophenyl-phenylether	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
4-Nitroaniline	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
4-Nitrophenol	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
4-Nitroquinoline-1-oxide	NA	NA	NA	NA	ND(4.6)	ND(3.5)	ND(3.6)	NA
4-Phenylenediamine	NA	NA	NA	NA	ND(9.1)	ND(6.9)	ND(7.1)	NA
5-Nitro-o-toluidine	NA	NA	NA	NA	ND(0.91)	ND(0.69)	ND(0.71)	NA
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	NA	ND(0.91)	ND(0.69)	ND(0.71)	NA
a,a'-Dimethylphenethylamine	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
Acenaphthene	NA	NA	NA	NA	0.059 J	ND(0.35)	ND(0.36)	NA
Acenaphthylene	NA	NA	NA	NA	0.13 J	ND(0.35)	ND(0.36)	NA
Acetophenone	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
Aniline	NA	NA	NA	NA	0.060 J	ND(0.35)	ND(0.36)	NA
Anthracene	NA	NA	NA	NA	0.20 J	ND(0.35)	ND(0.36)	NA
Aramite	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
Benzidine	NA	NA	NA	NA	ND(4.6)	ND(3.5)	ND(3.6)	NA
Benzo(a)anthracene	NA	NA	NA	NA	0.59	ND(0.35)	ND(0.36)	NA
Benzo(a)pyrene	NA	NA	NA	NA	0.64	ND(0.35)	ND(0.36)	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	0.65	ND(0.35)	ND(0.36)	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	0.23 J	ND(0.35)	ND(0.36)	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	0.67	ND(0.35)	ND(0.36)	NA
Benzyl Alcohol	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
bis(2-Chloroethoxy)methane	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
bis(2-Chloroethyl)ether	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
bis(2-Ethylhexyl)phthalate	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
Butylbenzylphthalate	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
Chrysene	NA	NA	NA	NA	0.71	ND(0.35)	ND(0.36)	NA
Diallate	NA	NA	NA	NA	ND(0.91)	ND(0.69)	ND(0.71)	NA
Dibenzo(a,h)anthracene	NA	NA	NA	NA	0.081 J	ND(0.35)	ND(0.36)	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	K10-13-1							
	RAA15-E2NE	RAA15-E2NW	RAA15-E2SE	RAA15-E2SW	RAA15-F2	RAA15-F2	RAA15-F2	RAA15-F2
	1-3 05/05/04	1-3 05/05/04	1-3 05/05/04	1-3 05/05/04	0-1 03/10/03	1-3 03/10/03	6-10 03/10/03	8-10 03/10/03
<b>Semivolatile Organics (continued)</b>								
Dibenzofuran	NA	NA	NA	NA	0.051 J	ND(0.35)	ND(0.36)	NA
Diethylphthalate	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
Dimethylphthalate	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
Di-n-Butylphthalate	NA	NA	NA	NA	0.083 J	ND(0.35)	ND(0.36)	NA
Di-n-Octylphthalate	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
Diphenylamine	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
Ethyl Methanesulfonate	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
Fluoranthene	NA	NA	NA	NA	1.3	ND(0.35)	ND(0.36)	NA
Fluorene	NA	NA	NA	NA	0.070 J	ND(0.35)	ND(0.36)	NA
Hexachlorobenzene	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
Hexachlorobutadiene	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
Hexachloroethane	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
Hexachlorophene	NA	NA	NA	NA	ND(9.3)	ND(7.0)	ND(7.2)	NA
Hexachloropropene	NA	NA	NA	NA	ND(4.6)	ND(3.5)	ND(3.6)	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	0.28 J	ND(0.35)	ND(0.36)	NA
Isodrin	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
Isophorone	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
Isosafrole	NA	NA	NA	NA	ND(0.91)	ND(0.69)	ND(0.71)	NA
Methapyrilene	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
Methyl Methanesulfonate	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
Naphthalene	NA	NA	NA	NA	0.044 J	ND(0.35)	ND(0.36)	NA
Nitrobenzene	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
N-Nitrosodiethylamine	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
N-Nitrosodimethylamine	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
N-Nitroso-di-n-butylamine	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
N-Nitroso-di-n-propylamine	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
N-Nitrosodiphenylamine	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
N-Nitrosomethylethylamine	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
N-Nitrosomorpholine	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
N-Nitrosopiperidine	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
N-Nitrosopyrrolidine	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
o,o,o-Triethylphosphorothioate	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
o-Toluidine	NA	NA	NA	NA	ND(0.91)	ND(0.69)	ND(0.71)	NA
p-Dimethylaminoazobenzene	NA	NA	NA	NA	ND(0.91)	ND(0.69)	ND(0.71)	NA
Pentachlorobenzene	NA	NA	NA	NA	ND(0.46)	ND(0.35)	ND(0.36)	NA
Pentachloroethane	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
Pentachloronitrobenzene	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
Pentachlorophenol	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
Phenacetin	NA	NA	NA	NA	ND(0.91)	ND(0.69)	ND(0.71)	NA
Phenanthrene	NA	NA	NA	NA	0.93	ND(0.35)	ND(0.36)	NA
Phenol	NA	NA	NA	NA	0.031 J	ND(0.35)	ND(0.36)	NA
Pronamide	NA	NA	NA	NA	ND(0.91)	ND(0.69)	ND(0.71)	NA
Pyrene	NA	NA	NA	NA	0.92	ND(0.35)	ND(0.36)	NA
Pyridine	NA	NA	NA	NA	ND(0.91)	ND(0.69)	ND(0.71)	NA
Safrole	NA	NA	NA	NA	ND(0.91)	ND(0.69)	ND(0.71)	NA
Thionazin	NA	NA	NA	NA	ND(2.2)	ND(1.7)	ND(1.7)	NA
<b>Furans</b>								
2,3,7,8-TCDF	NA	NA	NA	NA	0.000024	0.0000026	0.0000016	NA
TCDFs (total)	NA	NA	NA	NA	ND(0.00022) X	ND(0.000022) X	ND(0.000013) X	NA
1,2,3,7,8-PeCDF	NA	NA	NA	NA	0.0000065 J	0.0000020 J	0.0000010 J	NA
2,3,4,7,8-PeCDF	NA	NA	NA	NA	0.0000075	0.0000018 J	0.0000010 J	NA
PeCDFs (total)	NA	NA	NA	NA	ND(0.00031) X	ND(0.000026) X	ND(0.000010) X	NA
1,2,3,4,7,8-HxCDF	NA	NA	NA	NA	0.0000084	0.0000045 J	0.0000030 J	NA
1,2,3,6,7,8-HxCDF	NA	NA	NA	NA	0.0000046 J	0.0000019 J	0.0000012 J	NA
1,2,3,7,8,9-HxCDF	NA	NA	NA	NA	ND(0.0000022) X	ND(0.0000011) J	ND(0.00000094)	NA
2,3,4,6,7,8-HxCDF	NA	NA	NA	NA	0.0000054 J	0.00000067 J	0.00000035 J	NA
HxCDFs (total)	NA	NA	NA	NA	ND(0.00026) XQ	ND(0.000020) XQ	ND(0.0000082) X	NA
1,2,3,4,6,7,8-HpCDF	NA	NA	NA	NA	0.000019	0.0000047 J	0.0000020 J	NA
1,2,3,4,7,8,9-HpCDF	NA	NA	NA	NA	0.0000024 J	0.00000082 J	ND(0.00000060) X	NA
HpCDFs (total)	NA	NA	NA	NA	ND(0.000050) X	ND(0.000010) X	ND(0.0000035) X	NA
OCDF	NA	NA	NA	NA	0.000012 J	0.0000051 J	0.0000014 J	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Date Collected:	K10-13-1							
	RAA15-E2NE 1-3 05/05/04	RAA15-E2NW 1-3 05/05/04	RAA15-E2SE 1-3 05/05/04	RAA15-E2SW 1-3 05/05/04	RAA15-F2 0-1 03/10/03	RAA15-F2 1-3 03/10/03	RAA15-F2 6-10 03/10/03	RAA15-F2 8-10 03/10/03
<b>Dioxins</b>								
2,3,7,8-TCDD	NA	NA	NA	NA	ND(0.0000032)	ND(0.0000023)	ND(0.0000021)	NA
TCDDs (total)	NA	NA	NA	NA	ND(0.0000025) X	ND(0.0000023)	ND(0.0000021)	NA
1,2,3,7,8-PeCDD	NA	NA	NA	NA	ND(0.0000049) X	ND(0.0000015)	ND(0.0000012)	NA
PeCDDs (total)	NA	NA	NA	NA	ND(0.0000061) X	ND(0.0000015)	ND(0.0000012)	NA
1,2,3,4,7,8-HxCDD	NA	NA	NA	NA	ND(0.0000055) X	ND(0.0000015)	ND(0.0000014)	NA
1,2,3,6,7,8-HxCDD	NA	NA	NA	NA	0.000014 J	ND(0.0000027) X	ND(0.0000013)	NA
1,2,3,7,8,9-HxCDD	NA	NA	NA	NA	0.000013 QJ	ND(0.0000014)	ND(0.0000013)	NA
HxCDDs (total)	NA	NA	NA	NA	ND(0.000015) XQJ	ND(0.0000012) X	ND(0.0000067) X	NA
1,2,3,4,6,7,8-HpCDD	NA	NA	NA	NA	0.000014 QJ	0.000049 QJ	ND(0.0000023)	NA
HpCDDs (total)	NA	NA	NA	NA	0.000033 QJ	0.000095 QJ	ND(0.0000032) X	NA
OCDD	NA	NA	NA	NA	0.000080	0.000048	ND(0.0000012) X	NA
Total TEQs (WHO TEFs)	NA	NA	NA	NA	0.0000094	0.0000023	0.0000014	NA
<b>Inorganics</b>								
Antimony	610	400	820	130	2.50 B	ND(6.30)	ND(6.50)	NA
Arsenic	NA	NA	NA	NA	3.70	2.80	6.20	NA
Barium	NA	NA	NA	NA	38.6 J	14.4 J	21.4 J	NA
Beryllium	NA	NA	NA	NA	0.390 B	0.290 B	0.410 B	NA
Cadmium	NA	NA	NA	NA	ND(0.690)	ND(0.520)	ND(0.540)	NA
Chromium	NA	NA	NA	NA	7.10	5.60	10.1	NA
Cobalt	NA	NA	NA	NA	5.20 B	5.30	10.8	NA
Copper	NA	NA	NA	NA	61.8 J	9.90 J	26.1 J	NA
Cyanide	NA	NA	NA	NA	0.270 B	ND(0.520)	0.200 B	NA
Lead	850	6500	11000	5900	77.6 J	7.10 J	10.1 J	NA
Mercury	NA	NA	NA	NA	2.30 J	0.490 J	0.510 J	NA
Nickel	NA	NA	NA	NA	9.70	8.10	17.9	NA
Selenium	NA	NA	NA	NA	ND(0.690)	ND(0.520)	ND(0.540)	NA
Silver	NA	NA	NA	NA	ND(1.40)	ND(1.00)	ND(1.10)	NA
Sulfide	NA	NA	NA	NA	ND(13.8)	ND(10.5)	ND(10.8)	NA
Thallium	NA	NA	NA	NA	ND(1.40)	ND(1.00)	ND(1.10)	NA
Tin	NA	NA	NA	NA	16.1 J	ND(6.20)	ND(3.00)	NA
Vanadium	NA	NA	NA	NA	9.90	5.20 B	9.50	NA
Zinc	NA	NA	NA	NA	65.1	31.7	53.4	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	Recreational Area R1					
	RAA15-E1 0-1 03/10/03	RAA15-E1 3-6 03/10/03	RAA15-E1 4-6 03/10/03	RAA15-G2 3-6 03/07/03	RAA15-G2 4-6 03/07/03	RAA15-H2 0-1 03/05/03
<b>Volatile Organics</b>						
1,1,1,2-Tetrachloroethane	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
1,1,1-Trichloroethane	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
1,1,2,2-Tetrachloroethane	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
1,1,2-Trichloroethane	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
1,1-Dichloroethane	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
1,1-Dichloroethene	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
1,2,3-Trichloropropane	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
1,2-Dibromo-3-chloropropane	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
1,2-Dibromoethane	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
1,2-Dichloroethane	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
1,2-Dichloropropane	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
1,4-Dioxane	ND(0.94) J	NA	ND(0.98) J	NA	ND(0.96) J	ND(0.97) J
2-Butanone	ND(0.0047) J	NA	ND(0.0049) J	NA	ND(0.0048) J	ND(0.0049) J
2-Chloro-1,3-butadiene	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048) J	ND(0.0049) J
2-Chloroethylvinylether	ND(0.0094) J	NA	ND(0.0098) J	NA	ND(0.0096) J	ND(0.0097) J
2-Hexanone	ND(0.019) J	NA	ND(0.020) J	NA	ND(0.019) J	ND(0.019) J
3-Chloropropene	ND(0.0047) J	NA	ND(0.0049) J	NA	ND(0.0048)	ND(0.0049)
4-Methyl-2-pentanone	ND(0.019)	NA	ND(0.020)	NA	ND(0.019)	ND(0.019)
Acetone	ND(0.019) J	NA	ND(0.020) J	NA	ND(0.019) J	ND(0.019) J
Acetonitrile	ND(0.094)	NA	ND(0.098)	NA	ND(0.096)	ND(0.097)
Acrolein	ND(0.094)	NA	ND(0.098)	NA	ND(0.096) J	ND(0.097) J
Acrylonitrile	ND(0.094)	NA	ND(0.098)	NA	ND(0.096) J	ND(0.097) J
Benzene	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Bromodichloromethane	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Bromoform	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Bromomethane	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Carbon Disulfide	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Carbon Tetrachloride	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Chlorobenzene	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Chloroethane	ND(0.0094)	NA	ND(0.0098)	NA	ND(0.0096)	ND(0.0097)
Chloroform	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Chloromethane	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
cis-1,3-Dichloropropene	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Dibromochloromethane	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Dibromomethane	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Dichlorodifluoromethane	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Ethyl Methacrylate	ND(0.0047) J	NA	ND(0.0049) J	NA	ND(0.0048) J	ND(0.0049) J
Ethylbenzene	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Iodomethane	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Isobutanol	ND(0.19) J	NA	ND(0.20) J	NA	ND(0.19) J	ND(0.19) J
Methacrylonitrile	ND(0.0047) J	NA	ND(0.0049) J	NA	ND(0.0048)	ND(0.0049)
Methyl Methacrylate	ND(0.0047) J	NA	ND(0.0049) J	NA	ND(0.0048)	ND(0.0049)
Methylene Chloride	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Propionitrile	ND(0.0094)	NA	ND(0.0098)	NA	ND(0.0096)	ND(0.0097)
Styrene	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Tetrachloroethene	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Toluene	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
trans-1,2-Dichloroethene	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
trans-1,3-Dichloropropene	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
trans-1,4-Dichloro-2-butene	ND(0.0047) J	NA	ND(0.0049) J	NA	ND(0.0048)	ND(0.0049)
Trichloroethene	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Trichlorofluoromethane	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
Vinyl Acetate	ND(0.0047) J	NA	ND(0.0049) J	NA	ND(0.0048)	ND(0.0049)
Vinyl Chloride	ND(0.0094)	NA	ND(0.0098)	NA	ND(0.0096)	ND(0.0097)
Xylenes (total)	ND(0.0047)	NA	ND(0.0049)	NA	ND(0.0048)	ND(0.0049)
<b>Semivolatile Organics</b>						
1,2,4,5-Tetrachlorobenzene	ND(0.72)	ND(0.39)	NA	0.11 J	NA	ND(0.39)
1,2,4-Trichlorobenzene	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
1,2-Dichlorobenzene	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
1,2-Diphenylhydrazine	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
1,3,5-Trinitrobenzene	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
1,3-Dichlorobenzene	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Recreational Area R1					
	RAA15-E1	RAA15-E1	RAA15-E1	RAA15-G2	RAA15-G2	RAA15-H2
	0-1	3-6	4-6	3-6	4-6	0-1
Sample ID: Sample Depth (Feet): Date Collected:	0-1 03/10/03	3-6 03/10/03	4-6 03/10/03	3-6 03/07/03	4-6 03/07/03	0-1 03/05/03
<b>Semivolatile Organics (continued)</b>						
1,3-Dinitrobenzene	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
1,4-Dichlorobenzene	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
1,4-Naphthoquinone	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
1-Naphthylamine	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
2,3,4,6-Tetrachlorophenol	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
2,4,5-Trichlorophenol	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
2,4,6-Trichlorophenol	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
2,4-Dichlorophenol	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
2,4-Dimethylphenol	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
2,4-Dinitrophenol	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
2,4-Dinitrotoluene	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
2,6-Dichlorophenol	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
2,6-Dinitrotoluene	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
2-Acetylaminofluorene	ND(1.4)	ND(0.77)	NA	ND(0.76)	NA	ND(0.77)
2-Chloronaphthalene	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
2-Chlorophenol	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
2-Methylnaphthalene	ND(0.72)	ND(0.39)	NA	0.033 J	NA	0.076 J
2-Methylphenol	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
2-Naphthylamine	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
2-Nitroaniline	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
2-Nitrophenol	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
2-Picoline	ND(1.4)	ND(0.77)	NA	ND(0.76)	NA	ND(0.77)
3&4-Methylphenol	ND(1.4)	ND(0.77)	NA	ND(0.76)	NA	ND(0.77)
3,3'-Dichlorobenzidine	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
3,3'-Dimethylbenzidine	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
3-Methylcholanthrene	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
3-Nitroaniline	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
4,6-Dinitro-2-methylphenol	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
4-Aminobiphenyl	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
4-Bromophenyl-phenylether	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
4-Chloro-3-Methylphenol	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
4-Chloroaniline	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
4-Chlorobenzilate	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
4-Chlorophenyl-phenylether	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
4-Nitroaniline	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
4-Nitrophenol	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
4-Nitroquinoline-1-oxide	ND(7.2)	ND(3.9)	NA	ND(3.8)	NA	ND(3.9)
4-Phenylenediamine	ND(14)	ND(7.7)	NA	ND(7.6)	NA	ND(7.7)
5-Nitro-o-toluidine	ND(1.4)	ND(0.77)	NA	ND(0.76)	NA	ND(0.77)
7,12-Dimethylbenz(a)anthracene	ND(1.4)	ND(0.77)	NA	ND(0.76)	NA	ND(0.77)
a,a'-Dimethylphenethylamine	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
Acenaphthene	ND(0.72)	0.036 J	NA	0.11 J	NA	0.086 J
Acenaphthylene	0.053 J	ND(0.39)	NA	0.14 J	NA	0.43
Acetophenone	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
Aniline	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
Anthracene	ND(0.72)	0.16 J	NA	0.53	NA	0.40
Aramite	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
Benzidine	ND(7.2)	ND(3.9)	NA	ND(3.8)	NA	ND(3.9)
Benzo(a)anthracene	0.095 J	0.21 J	NA	1.5	NA	1.0
Benzo(a)pyrene	0.12 J	0.16 J	NA	1.3	NA	1.3
Benzo(b)fluoranthene	0.12 J	0.13 J	NA	1.2	NA	1.2
Benzo(g,h,i)perylene	ND(0.72)	ND(0.39)	NA	0.97	NA	0.35 J
Benzo(k)fluoranthene	0.14 J	0.17 J	NA	0.93	NA	1.1
Benzyl Alcohol	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
bis(2-Chloroethoxy)methane	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
bis(2-Chloroethyl)ether	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
bis(2-Chloroisopropyl)ether	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
bis(2-Ethylhexyl)phthalate	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
Butylbenzylphthalate	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
Chrysene	0.17 J	0.20 J	NA	1.5	NA	1.4
Diallate	ND(1.4)	ND(0.77)	NA	ND(0.76)	NA	ND(0.77)
Dibenzo(a,h)anthracene	ND(0.72)	ND(0.39)	NA	0.33 J	NA	0.15 J

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	Recreational Area R1					
	RAA15-E1 0-1 03/10/03	RAA15-E1 3-6 03/10/03	RAA15-E1 4-6 03/10/03	RAA15-G2 3-6 03/07/03	RAA15-G2 4-6 03/07/03	RAA15-H2 0-1 03/05/03
<b>Semivolatile Organics (continued)</b>						
Dibenzofuran	ND(0.72)	0.042 J	NA	0.082 J	NA	0.061 J
Diethylphthalate	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
Dimethylphthalate	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
Di-n-Butylphthalate	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
Di-n-Octylphthalate	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
Diphenylamine	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
Ethyl Methanesulfonate	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
Fluoranthene	0.19 J	0.57	NA	3.1	NA	2.5
Fluorene	ND(0.72)	0.042 J	NA	0.14 J	NA	0.12 J
Hexachlorobenzene	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
Hexachlorobutadiene	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
Hexachlorocyclopentadiene	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
Hexachloroethane	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
Hexachlorophene	ND(15)	ND(7.8)	NA	ND(7.7) J	NA	ND(7.8)
Hexachloropropene	ND(7.2)	ND(3.9)	NA	ND(3.8)	NA	ND(3.9)
Indeno(1,2,3-cd)pyrene	ND(0.72)	0.057 J	NA	1.1	NA	0.41
Isodrin	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
Isophorone	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
Isosafrole	ND(1.4)	ND(0.77)	NA	ND(0.76)	NA	ND(0.77)
Methapyrene	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
Methyl Methanesulfonate	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
Naphthalene	ND(0.72)	0.068 J	NA	0.054 J	NA	0.11 J
Nitrobenzene	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
N-Nitrosodiethylamine	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
N-Nitrosodimethylamine	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
N-Nitroso-di-n-butylamine	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
N-Nitroso-di-n-propylamine	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
N-Nitrosodiphenylamine	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
N-Nitrosomethylethylamine	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
N-Nitrosomorpholine	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
N-Nitrosopiperidine	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
N-Nitrosopyrrolidine	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
o,o,o-Triethylphosphorothioate	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
o-Toluidine	ND(1.4)	ND(0.77)	NA	ND(0.76)	NA	ND(0.77)
p-Dimethylaminoazobenzene	ND(1.4)	ND(0.77)	NA	ND(0.76)	NA	ND(0.77)
Pentachlorobenzene	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
Pentachloroethane	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
Pentachloronitrobenzene	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
Pentachlorophenol	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
Phenacetin	ND(1.4)	ND(0.77)	NA	ND(0.76)	NA	ND(0.77)
Phenanthrene	ND(0.72)	0.53	NA	2.1	NA	1.4
Phenol	ND(0.72)	ND(0.39)	NA	ND(0.38)	NA	ND(0.39)
Pronamide	ND(1.4)	ND(0.77)	NA	ND(0.76)	NA	ND(0.77)
Pyrene	0.15 J	0.31 J	NA	2.8	NA	1.7
Pyridine	ND(1.4)	ND(0.77)	NA	ND(0.76)	NA	ND(0.77)
Safrole	ND(1.4)	ND(0.77)	NA	ND(0.76)	NA	ND(0.77)
Thionazin	ND(3.5)	ND(1.9)	NA	ND(1.8)	NA	ND(1.9)
<b>Furans</b>						
2,3,7,8-TCDF	ND(0.000021) X	ND(0.0000021)	NA	ND(0.000085) X	NA	ND(0.000017) XJ
TCDFs (total)	ND(0.000023) X	ND(0.0000021)	NA	ND(0.00061) XQJ	NA	ND(0.00025) X
1,2,3,7,8-PeCDF	ND(0.0000068) X	ND(0.0000012)	NA	0.000050	NA	0.0000078
2,3,4,7,8-PeCDF	0.000011 J	ND(0.0000011)	NA	0.000049	NA	ND(0.000010) X
PeCDFs (total)	ND(0.000052) X	ND(0.0000018) X	NA	ND(0.00059) X	NA	ND(0.00052) X
1,2,3,4,7,8-HxCDF	ND(0.0000060) X	ND(0.0000010)	NA	0.00012	NA	0.000016
1,2,3,6,7,8-HxCDF	ND(0.0000077) X	ND(0.00000097)	NA	ND(0.000056) X	NA	ND(0.000041) X
1,2,3,7,8,9-HxCDF	ND(0.0000030)	ND(0.0000012)	NA	0.000030 J	NA	0.0000020 J
2,3,4,6,7,8-HxCDF	ND(0.0000071) X	ND(0.0000011)	NA	0.000015	NA	0.0000020 J
HxCDFs (total)	ND(0.000037) X	0.0000015 J	NA	ND(0.00038) XQJ	NA	ND(0.00037) X
1,2,3,4,6,7,8-HpCDF	0.000029 J	ND(0.0000017)	NA	0.000078	NA	0.000034
1,2,3,4,7,8,9-HpCDF	ND(0.0000067)	ND(0.0000021)	NA	0.000025	NA	0.0000047 J
HpCDFs (total)	0.000073 J	ND(0.0000019)	NA	ND(0.00014) X	NA	0.000087
OCDF	0.000028 J	ND(0.0000037)	NA	0.000068	NA	0.000044

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Recreational Area R1					
	RAA15-E1	RAA15-E1	RAA15-E1	RAA15-G2	RAA15-G2	RAA15-H2
	0-1 03/10/03	3-6 03/10/03	4-6 03/10/03	3-6 03/07/03	4-6 03/07/03	0-1 03/05/03
<b>Dioxins</b>						
2,3,7,8-TCDD	ND(0.0000042)	ND(0.0000028)	NA	ND(0.0000054) X	NA	ND(0.0000026)
TCDDs (total)	ND(0.0000039) X	ND(0.0000048) X	NA	ND(0.000014) X	NA	ND(0.0000032) X
1,2,3,7,8-PeCDD	ND(0.0000032)	ND(0.0000014)	NA	ND(0.0000030) X	NA	ND(0.0000010) X
PeCDDs (total)	ND(0.0000032)	ND(0.0000033) X	NA	ND(0.000020) X	NA	ND(0.0000091) X
1,2,3,4,7,8-HxCDD	ND(0.0000044)	ND(0.0000022)	NA	ND(0.0000084) X	NA	0.0000013 J
1,2,3,6,7,8-HxCDD	ND(0.0000041)	ND(0.0000021)	NA	0.0000015 J	NA	0.0000040 J
1,2,3,7,8,9-HxCDD	ND(0.0000043)	ND(0.0000021)	NA	0.0000015 JQ	NA	0.0000020 J
HxCDDs (total)	ND(0.0000096) X	0.0000075 J	NA	ND(0.000026) XQJ	NA	ND(0.000036) X
1,2,3,4,6,7,8-HpCDD	0.0000019 J	0.0000043 QJ	NA	0.0000086 QJ	NA	0.000096
HpCDDs (total)	ND(0.000038) X	0.0000043 QJ	NA	0.000017 QJ	NA	0.00031
OCDD	0.000013 J	ND(0.0000010) XQJ	NA	0.00002	NA	0.00077
Total TEQs (WHO TEFs)	0.0000015	0.0000031	NA	0.000051	NA	0.000010
<b>Inorganics</b>						
Antimony	0.510 B	ND(7.00)	NA	ND(6.90)	NA	0.560 J
Arsenic	2.90	4.50	NA	6.60	NA	4.30
Barium	21.4 J	38.0 J	NA	48.9	NA	40.5
Beryllium	0.310 B	0.550 B	NA	ND(0.530)	NA	0.280 B
Cadmium	ND(0.550)	ND(0.580)	NA	ND(0.100)	NA	0.210 B
Chromium	4.60	9.30	NA	10.0	NA	7.90
Cobalt	4.30 B	10.6	NA	7.80	NA	5.40 B
Copper	24.3 J	23.2 J	NA	61.2 J	NA	58.7
Cyanide	0.250 B	0.210 B	NA	0.210 B	NA	ND(0.240)
Lead	29.6 J	9.60 J	NA	94.2 J	NA	72.5
Mercury	0.430 J	0.920 J	NA	1.30	NA	0.120 J
Nickel	7.50	17.6	NA	17.0 J	NA	12.2
Selenium	ND(0.550)	ND(0.580)	NA	ND(0.570)	NA	ND(0.580)
Silver	ND(1.10)	ND(1.20)	NA	ND(1.10)	NA	ND(1.20)
Sulfide	ND(10.9)	ND(11.7)	NA	ND(11.5)	NA	ND(11.7)
Thallium	ND(1.10)	ND(1.20)	NA	0.640 B	NA	ND(1.20) J
Tin	ND(5.00)	ND(3.30)	NA	ND(8.80)	NA	ND(5.80)
Vanadium	8.10	10.7	NA	11.9	NA	13.6
Zinc	34.5	63.1	NA	124	NA	109



**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parameter Sample Depth (Feet): Date Collected:	Recreational Area R2						
	RAA15-C6 0-1 03/06/03	RAA15-C6 0-1 05/05/04	RAA15-C6 1-3 03/06/03	RAA15-C6 3-6 03/06/03	RAA15-C6 4-6 03/06/03	RAA15-C6 6-8 05/05/04	RAA15-C6 6-10 05/05/04
	Parcel ID: Sample ID:	Parcel ID: Sample ID:	Parcel ID: Sample ID:	Parcel ID: Sample ID:	Parcel ID: Sample ID:	Parcel ID: Sample ID:	Parcel ID: Sample ID:
<b>Volatile Organics</b>							
1,1,1,2-Tetrachloroethane	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
1,1,1-Trichloroethane	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
1,1,2,2-Tetrachloroethane	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
1,1,2-Trichloroethane	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
1,1-Dichloroethane	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
1,1-Dichloroethene	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
1,2,3-Trichloropropane	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
1,2-Dibromo-3-chloropropane	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
1,2-Dibromoethane	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
1,2-Dichloroethane	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
1,2-Dichloropropane	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
1,4-Dioxane	ND(1.5) J	NA	ND(1.2) J	NA	ND(1.1) J	ND(1.2) J	NA
2-Butanone	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.012)	NA
2-Chloro-1,3-butadiene	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
2-Chloroethylvinylether	ND(0.015) J	NA	ND(0.012) J	NA	ND(0.011) J	ND(0.0060)	NA
2-Hexanone	ND(0.031)	NA	ND(0.023)	NA	ND(0.021)	ND(0.012)	NA
3-Chloropropene	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
4-Methyl-2-pentanone	ND(0.031)	NA	ND(0.023)	NA	ND(0.021)	ND(0.012)	NA
Acetone	ND(0.031) J	NA	ND(0.023) J	NA	ND(0.021) J	ND(0.024)	NA
Acetonitrile	ND(0.15)	NA	ND(0.12)	NA	ND(0.11)	ND(0.12) J	NA
Acrolein	ND(0.15) J	NA	ND(0.12) J	NA	ND(0.11) J	ND(0.12) J	NA
Acrylonitrile	ND(0.15)	NA	ND(0.12)	NA	ND(0.11)	ND(0.0060)	NA
Benzene	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Bromodichloromethane	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Bromoform	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Bromomethane	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Carbon Disulfide	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Carbon Tetrachloride	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Chlorobenzene	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Chloroethane	ND(0.015)	NA	ND(0.012)	NA	ND(0.011)	ND(0.0060)	NA
Chloroform	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Chloromethane	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
cis-1,3-Dichloropropene	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Dibromochloromethane	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Dibromomethane	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Dichlorodifluoromethane	ND(0.0076) J	NA	ND(0.0059) J	NA	ND(0.0053) J	ND(0.0060)	NA
Ethyl Methacrylate	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Ethylbenzene	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Iodomethane	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Isobutanol	ND(0.31) J	NA	ND(0.23) J	NA	ND(0.21) J	ND(0.12) J	NA
Methacrylonitrile	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Methyl Methacrylate	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Methylene Chloride	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Propionitrile	ND(0.015)	NA	ND(0.012)	NA	ND(0.011)	ND(0.012) J	NA
Styrene	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Tetrachloroethene	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Toluene	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
trans-1,2-Dichloroethene	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
trans-1,3-Dichloropropene	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
trans-1,4-Dichloro-2-butene	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Trichloroethene	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Trichlorofluoromethane	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Vinyl Acetate	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
Vinyl Chloride	ND(0.015)	NA	ND(0.012)	NA	ND(0.011)	ND(0.0060)	NA
Xylenes (total)	ND(0.0076)	NA	ND(0.0059)	NA	ND(0.0053)	ND(0.0060)	NA
<b>Semivolatile Organics</b>							
1,2,4,5-Tetrachlorobenzene	ND(27)	ND(0.42)	0.69	ND(1.6)	NA	NA	ND(0.40)
1,2,4-Trichlorobenzene	ND(27)	ND(0.42)	0.040 J	ND(1.6)	NA	NA	ND(0.40)
1,2-Dichlorobenzene	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
1,2-Diphenylhydrazine	ND(27)	ND(0.42) J	ND(0.40)	ND(1.6)	NA	NA	ND(0.40) J
1,3,5-Trinitrobenzene	ND(130)	ND(0.42) J	ND(2.0)	ND(7.7)	NA	NA	ND(0.40) J
1,3-Dichlorobenzene	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Recreational Area R2						
	RAA15-C6 0-1 03/06/03	RAA15-C6 0-1 05/05/04	RAA15-C6 1-3 03/06/03	RAA15-C6 3-6 03/06/03	RAA15-C6 4-6 03/06/03	RAA15-C6 6-8 05/05/04	RAA15-C6 6-10 05/05/04
	Sample ID: Sample Depth:(Feet): Date Collected:						
<b>Semivolatile Organics (continued)</b>							
1,3-Dinitrobenzene	ND(27)	ND(0.84) J	ND(0.40)	ND(1.6)	NA	NA	ND(0.79) J
1,4-Dichlorobenzene	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
1,4-Naphthoquinone	ND(130)	ND(0.84)	ND(2.0)	ND(7.7)	NA	NA	ND(0.79)
1-Naphthylamine	ND(27)	ND(0.84)	ND(0.40)	ND(1.6)	NA	NA	ND(0.79)
2,3,4,6-Tetrachlorophenol	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
2,4,5-Trichlorophenol	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
2,4,6-Trichlorophenol	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
2,4-Dichlorophenol	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
2,4-Dimethylphenol	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
2,4-Dinitrophenol	ND(130)	ND(2.1)	ND(2.0)	ND(7.7)	NA	NA	ND(2.0)
2,4-Dinitrotoluene	ND(27)	0.86	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
2,6-Dichlorophenol	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
2,6-Dinitrotoluene	ND(27)	ND(0.42) J	ND(0.40)	ND(1.6)	NA	NA	ND(0.40) J
2-Acetylaminofluorene	ND(53)	ND(0.84)	ND(0.81)	ND(3.2)	NA	NA	ND(0.79)
2-Chloronaphthalene	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
2-Chlorophenol	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
2-Methylnaphthalene	ND(27)	ND(0.42)	0.055 J	0.098 J	NA	NA	ND(0.40)
2-Methylphenol	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
2-Naphthylamine	ND(27)	ND(0.84)	ND(0.40)	ND(1.6)	NA	NA	ND(0.79)
2-Nitroaniline	ND(130)	ND(2.1) J	ND(2.0)	ND(7.7)	NA	NA	ND(2.0) J
2-Nitrophenol	ND(27)	ND(0.84)	ND(0.40)	ND(1.6)	NA	NA	ND(0.79)
2-Picoline	ND(53)	ND(0.42)	ND(0.81)	ND(3.2)	NA	NA	ND(0.40)
3&4-Methylphenol	ND(53)	ND(0.84)	ND(0.81)	ND(3.2)	NA	NA	0.57 J
3,3'-Dichlorobenzidine	ND(130)	ND(0.84)	ND(2.0)	ND(7.7)	NA	NA	ND(0.79)
3,3'-Dimethylbenzidine	ND(130)	ND(0.42)	ND(2.0)	ND(7.7)	NA	NA	ND(0.40)
3-Methylcholanthrene	ND(130)	ND(0.84)	ND(2.0)	ND(7.7)	NA	NA	ND(0.79)
3-Nitroaniline	ND(130)	ND(2.1) J	ND(2.0)	ND(7.7)	NA	NA	ND(2.0) J
4,6-Dinitro-2-methylphenol	ND(130)	ND(0.42)	ND(2.0)	ND(7.7)	NA	NA	ND(0.40)
4-Aminobiphenyl	ND(130)	ND(0.84)	ND(2.0)	ND(7.7)	NA	NA	ND(0.79)
4-Bromophenyl-phenylether	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
4-Chloro-3-Methylphenol	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
4-Chloroaniline	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
4-Chlorobenzilate	ND(27)	ND(0.84)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
4-Chlorophenyl-phenylether	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.79)
4-Nitroaniline	ND(130)	ND(2.1) J	ND(2.0)	ND(7.7)	NA	NA	ND(2.0) J
4-Nitrophenol	ND(130)	ND(2.1) J	ND(2.0)	ND(7.7)	NA	NA	ND(2.0) J
4-Nitroquinoline-1-oxide	ND(270)	ND(0.84) J	ND(4.0)	ND(16)	NA	NA	ND(0.79) J
4-Phenylenediamine	ND(530)	ND(0.84)	ND(8.1)	ND(32)	NA	NA	ND(0.79)
5-Nitro-o-toluidine	ND(53)	ND(0.84)	ND(0.81)	ND(3.2)	NA	NA	ND(0.79)
7,12-Dimethylbenz(a)anthracene	ND(53)	ND(0.84)	ND(0.81)	ND(3.2)	NA	NA	ND(0.79)
a,a'-Dimethylphenethylamine	ND(130)	ND(0.84)	ND(2.0)	ND(7.7)	NA	NA	ND(0.79)
Acenaphthene	ND(27)	ND(0.42)	0.055 J	ND(1.6)	NA	NA	ND(0.40)
Acenaphthylene	ND(27)	0.14 J	0.13 J	0.88 J	NA	NA	0.80
Acetophenone	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
Aniline	ND(27)	0.31 J	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
Anthracene	ND(27)	0.42	0.21 J	0.49 J	NA	NA	0.53
Aramite	ND(130)	ND(0.84)	ND(2.0)	ND(7.7)	NA	NA	ND(0.79)
Benzidine	ND(270)	ND(0.84) J	ND(4.0)	ND(16)	NA	NA	ND(0.79) J
Benzo(a)anthracene	ND(27)	0.96	0.64	2.1	NA	NA	1.4
Benzo(a)pyrene	ND(27)	ND(0.42)	0.65	2.3	NA	NA	1.0
Benzo(b)fluoranthene	ND(27)	0.55	0.60	2.2	NA	NA	1.0
Benzo(g,h,i)perylene	ND(27)	0.38 J	0.25 J	0.92 J	NA	NA	0.72
Benzo(k)fluoranthene	ND(27)	0.68	0.63	2.2	NA	NA	1.0
Benzyl Alcohol	ND(27)	ND(0.84) J	ND(0.40)	ND(1.6)	NA	NA	ND(0.79) J
bis(2-Chloroethoxy)methane	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
bis(2-Chloroethyl)ether	ND(27)	ND(0.42) J	ND(0.40)	ND(1.6)	NA	NA	ND(0.40) J
bis(2-Chloroisopropyl)ether	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
bis(2-Ethylhexyl)phthalate	ND(27)	0.27 J	0.11 J	ND(1.6)	NA	NA	ND(0.39)
Butylbenzylphthalate	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
Chrysene	ND(27)	1.1	0.73	2.6	NA	NA	1.6
Diallate	ND(53)	ND(0.84)	ND(0.81)	ND(3.2)	NA	NA	ND(0.79)
Dibenzo(a,h)anthracene	ND(27)	0.11 J	0.10 J	0.35 J	NA	NA	0.19 J

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Recreational Area R2						
	RAA15-C6 0-1	RAA15-C6 0-1	RAA15-C6 1-3	RAA15-C6 3-6	RAA15-C6 4-6	RAA15-C6 6-8	RAA15-C6 6-10
	Sample ID: Sample Depth(Feet): Date Collected:	0-1 05/05/04	0-1 03/06/03	3-6 03/06/03	4-6 03/06/03	6-8 05/05/04	6-10 05/05/04
<b>Semivolatile Organics (continued)</b>							
Dibenzofuran	ND(27)	0.10 J	0.053 J	ND(1.6)	NA	NA	0.085 J
Diethylphthalate	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
Dimethylphthalate	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
Di-n-Butylphthalate	ND(27)	0.092 J	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
Di-n-Octylphthalate	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
Diphenylamine	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
Ethyl Methanesulfonate	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
Fluoranthene	ND(27)	2.7	1.3	4.8	NA	NA	3.4
Fluorene	ND(27)	0.20 J	0.072 J	ND(1.6)	NA	NA	ND(0.40)
Hexachlorobenzene	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
Hexachlorobutadiene	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
Hexachlorocyclopentadiene	ND(130)	ND(0.42)	ND(2.0)	ND(7.7)	NA	NA	ND(0.40)
Hexachloroethane	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
Hexachlorophene	ND(540) J	ND(0.84) J	ND(8.2) J	ND(32) J	NA	NA	ND(0.79) J
Hexachloropropene	ND(270)	ND(0.42)	ND(4.0)	ND(16)	NA	NA	ND(0.40)
Indeno(1,2,3-cd)pyrene	ND(27)	0.34 J	0.31 J	1.2 J	NA	NA	0.62
Isodrin	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
Isophorone	ND(27)	ND(0.42)	0.28 J	ND(1.6)	NA	NA	ND(0.40)
Isosafrole	ND(53)	ND(0.84)	ND(0.81)	ND(3.2)	NA	NA	ND(0.79)
Methapyrilene	ND(130)	ND(0.84)	ND(2.0)	ND(7.7)	NA	NA	ND(0.79)
Methyl Methanesulfonate	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
Naphthalene	ND(27)	ND(0.42)	0.065 J	0.12 J	NA	NA	0.16 J
Nitrobenzene	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
N-Nitrosodiethylamine	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
N-Nitrosodimethylamine	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
N-Nitroso-di-n-butylamine	ND(27)	ND(0.84)	ND(0.40)	ND(1.6)	NA	NA	ND(0.79)
N-Nitroso-di-n-propylamine	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
N-Nitrosodiphenylamine	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
N-Nitrosomethylethylamine	ND(27)	ND(0.84)	ND(0.40)	ND(1.6)	NA	NA	ND(0.79)
N-Nitrosomorpholine	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
N-Nitrosopiperidine	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
N-Nitrosopyrrolidine	ND(27)	ND(0.84)	ND(0.40)	ND(1.6)	NA	NA	ND(0.79)
o,o,o-Triethylphosphorothioate	ND(130)	ND(0.42)	ND(2.0)	ND(7.7)	NA	NA	ND(0.40)
o-Toluidine	ND(53)	ND(0.42)	ND(0.81)	ND(3.2)	NA	NA	ND(0.40)
p-Dimethylaminoazobenzene	ND(53)	ND(0.84)	ND(0.81)	ND(3.2)	NA	NA	ND(0.79)
Pentachlorobenzene	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
Pentachloroethane	ND(130)	ND(0.42)	ND(2.0)	ND(7.7)	NA	NA	ND(0.40)
Pentachloronitrobenzene	ND(130)	ND(0.84) J	ND(2.0)	ND(7.7)	NA	NA	ND(0.79) J
Pentachlorophenol	ND(130)	ND(2.1)	ND(2.0)	ND(7.7)	NA	NA	ND(2.0)
Phenacetin	ND(53)	ND(0.84)	ND(0.81)	ND(3.2)	NA	NA	ND(0.79)
Phenanthrene	ND(27)	1.9	0.87	2.3	NA	NA	1.7
Phenol	ND(27)	ND(0.42)	ND(0.40)	ND(1.6)	NA	NA	ND(0.40)
Pronamide	ND(53)	ND(0.42)	ND(0.81)	ND(3.2)	NA	NA	ND(0.40)
Pyrene	ND(27)	2.1	1.0	3.4	NA	NA	3.1
Pyridine	ND(53)	ND(0.42)	ND(0.81)	ND(3.2)	NA	NA	ND(0.40)
Safrole	ND(53)	ND(0.42)	ND(0.81)	ND(3.2)	NA	NA	ND(0.40)
Thionazin	ND(130)	ND(0.42)	ND(2.0)	ND(7.7)	NA	NA	ND(0.40)
<b>Furans</b>							
2,3,7,8-TCDF	ND(0.00018) X	NA	ND(0.000086) X	ND(0.000059) X	NA	NA	0.000038 Y
TCDFs (total)	ND(0.0012) XQJ	NA	ND(0.00062) XQJ	ND(0.00071) X	NA	NA	0.00054 QI
1,2,3,7,8-PeCDF	0.00018	NA	0.000065	0.000018	NA	NA	0.000021 Q
2,3,4,7,8-PeCDF	0.00015	NA	0.000064	0.000023	NA	NA	0.000074 Q
PeCDFs (total)	ND(0.0017) X	NA	ND(0.00096) X	ND(0.0015) X	NA	NA	0.00064 QI
1,2,3,4,7,8-HxCDF	0.00039	NA	0.00016	0.000028	NA	NA	0.00011
1,2,3,6,7,8-HxCDF	ND(0.00020) X	NA	0.000064	ND(0.00022) X	NA	NA	0.000046
1,2,3,7,8,9-HxCDF	0.000021	NA	0.000044 J	0.000013 J	NA	NA	0.000097 Q
2,3,4,6,7,8-HxCDF	0.000039	NA	0.000022	0.000014	NA	NA	0.000062
HxCDFs (total)	ND(0.0013) X	NA	ND(0.00072) X	ND(0.0011) X	NA	NA	0.00095 Q
1,2,3,4,6,7,8-HpCDF	0.00027	NA	0.00012	0.000070	NA	NA	0.00022
1,2,3,4,7,8,9-HpCDF	0.000092	NA	0.000034	0.0000099	NA	NA	0.000086
HpCDFs (total)	ND(0.00048) X	NA	ND(0.00022) X	ND(0.00018) X	NA	NA	0.00047
OCDF	0.00021	NA	0.000087	0.000043	NA	NA	0.00052

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Recreational Area R2						
	RAA15-C6 0-1	RAA15-C6 0-1	RAA15-C6 1-3	RAA15-C6 3-6	RAA15-C6 4-6	RAA15-C6 6-8	RAA15-C6 6-10
	Date Collected: 03/06/03	05/05/04	03/06/03	03/06/03	03/06/03	05/05/04	05/05/04
<b>Dioxins</b>							
2,3,7,8-TCDD	ND(0.0000079) X	NA	ND(0.0000041) X	ND(0.0000071) X	NA	NA	0.0000064 JQ
TCDDs (total)	ND(0.000017) X	NA	ND(0.000011) X	ND(0.000021) X	NA	NA	0.000010 Q
1,2,3,7,8-PeCDD	ND(0.000014) X	NA	ND(0.0000056) X	ND(0.0000025) X	NA	NA	ND(0.0000023)
PeCDDs (total)	ND(0.000055) X	NA	ND(0.000026) X	ND(0.000027) X	NA	NA	0.0000085 Q
1,2,3,4,7,8-HxCDD	0.0000023 J	NA	ND(0.0000012) X	0.0000018 J	NA	NA	0.0000015 J
1,2,3,6,7,8-HxCDD	0.0000042 J	NA	0.0000028 J	0.0000041 J	NA	NA	ND(0.0000037)
1,2,3,7,8,9-HxCDD	ND(0.0000026) XQJ	NA	ND(0.0000022) X	0.0000038 JQ	NA	NA	ND(0.0000025)
HxCDDs (total)	ND(0.000093) XQJ	NA	ND(0.000047) X	ND(0.000050) XQJ	NA	NA	0.000031
1,2,3,4,6,7,8-HpCDD	0.000031	NA	0.000028	0.000029	NA	NA	0.000026
HpCDDs (total)	0.000065	NA	0.000064	0.000059	NA	NA	0.000049
OCDD	0.00016 QJ	NA	0.00027 QJ	0.00019	NA	NA	0.00018
Total TEQs (WHO TEFs)	0.00016	NA	0.000070	0.000034	NA	NA	0.000070
<b>Inorganics</b>							
Antimony	0.520 B	NA	0.790 B	2.20 B	NA	NA	1.90 J
Arsenic	4.30	NA	7.00	7.20	NA	NA	3.60
Barium	79.1	NA	101	125	NA	NA	56.0
Beryllium	0.300 B	NA	0.390 B	0.380 B	NA	NA	0.180 B
Cadmium	0.490 B	NA	0.130 B	0.500 B	NA	NA	0.700
Chromium	9.70	NA	8.30	12.5	NA	NA	6.30
Cobalt	4.90 B	NA	4.40 B	4.90 B	NA	NA	3.60 B
Copper	33.5	NA	38.5	50.6	NA	NA	77.0
Cyanide	0.550 B	NA	0.220 B	0.290 B	NA	NA	0.280
Lead	188	NA	98.2	220	NA	NA	95.0
Mercury	0.700	NA	0.190	2.70	NA	NA	3.80
Nickel	10.7	NA	10.3	13.2	NA	NA	6.20
Selenium	ND(0.670)	NA	ND(0.610)	ND(0.600)	NA	NA	ND(1.00) J
Silver	ND(1.30)	NA	ND(1.20)	ND(1.20)	NA	NA	ND(1.00)
Sulfide	ND(13.4)	NA	19.6	ND(12.0)	NA	NA	46.0
Thallium	ND(1.30)	NA	ND(1.20)	1.00 B	NA	NA	ND(1.20) J
Tin	ND(7.40)	NA	ND(9.20)	ND(13.0)	NA	NA	ND(10)
Vanadium	14.9	NA	15.6	19.0	NA	NA	8.10
Zinc	688	NA	68.7	133	NA	NA	75.0

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	Recreational Area R2						
	RAA15-E7 0-1 02/27/03	RAA15-E7(B) 1-3 05/04/04	RAA15-E7BSE 1-3 09/20/04	RAA15-E7NE 0-1 05/04/04	RAA15-E7NW 0-1 05/04/04	RAA15-E7SE 0-1 05/04/04	RAA15-E7SW 0-1 05/04/04
<b>Volatile Organics</b>							
1,1,1,2-Tetrachloroethane	ND(0.0062)	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	ND(0.0062)	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	ND(0.0062)	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	ND(0.0062)	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ND(0.0062)	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	ND(0.0062)	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ND(0.0062)	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	ND(0.0062)	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	ND(0.0062)	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	ND(0.0062)	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	ND(0.0062)	NA	NA	NA	NA	NA	NA
1,4-Dioxane	ND(1.2) J	NA	NA	NA	NA	NA	NA
2-Butanone	ND(0.0062) J	NA	NA	NA	NA	NA	NA
2-Chloro-1,3-butadiene	ND(0.0062)	NA	NA	NA	NA	NA	NA
2-Chloroethylvinylether	ND(0.012) J	NA	NA	NA	NA	NA	NA
2-Hexanone	ND(0.025)	NA	NA	NA	NA	NA	NA
3-Chloropropene	ND(0.0062)	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	ND(0.025)	NA	NA	NA	NA	NA	NA
Acetone	ND(0.025) J	NA	NA	NA	NA	NA	NA
Acetonitrile	ND(0.12) J	NA	NA	NA	NA	NA	NA
Acrolein	ND(0.12) J	NA	NA	NA	NA	NA	NA
Acrylonitrile	ND(0.12)	NA	NA	NA	NA	NA	NA
Benzene	ND(0.0062)	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ND(0.0062)	NA	NA	NA	NA	NA	NA
Bromoform	ND(0.0062)	NA	NA	NA	NA	NA	NA
Bromomethane	ND(0.0062)	NA	NA	NA	NA	NA	NA
Carbon Disulfide	ND(0.0062)	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	ND(0.0062)	NA	NA	NA	NA	NA	NA
Chlorobenzene	ND(0.0062)	NA	NA	NA	NA	NA	NA
Chloroethane	ND(0.012) J	NA	NA	NA	NA	NA	NA
Chloroform	ND(0.0062)	NA	NA	NA	NA	NA	NA
Chloromethane	ND(0.0062)	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	ND(0.0062)	NA	NA	NA	NA	NA	NA
Dibromochloromethane	ND(0.0062)	NA	NA	NA	NA	NA	NA
Dibromomethane	ND(0.0062)	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ND(0.0062)	NA	NA	NA	NA	NA	NA
Ethyl Methacrylate	ND(0.0062)	NA	NA	NA	NA	NA	NA
Ethylbenzene	ND(0.0062)	NA	NA	NA	NA	NA	NA
Iodomethane	ND(0.0062)	NA	NA	NA	NA	NA	NA
Isobutanol	ND(0.25) J	NA	NA	NA	NA	NA	NA
Methacrylonitrile	ND(0.0062)	NA	NA	NA	NA	NA	NA
Methyl Methacrylate	ND(0.0062)	NA	NA	NA	NA	NA	NA
Methylene Chloride	0.0021 J	NA	NA	NA	NA	NA	NA
Propionitrile	ND(0.012)	NA	NA	NA	NA	NA	NA
Styrene	ND(0.0062)	NA	NA	NA	NA	NA	NA
Tetrachloroethene	ND(0.0062)	NA	NA	NA	NA	NA	NA
Toluene	ND(0.0062)	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	ND(0.0062)	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	ND(0.0062)	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	ND(0.0062)	NA	NA	NA	NA	NA	NA
Trichloroethene	0.0065	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	ND(0.0062) J	NA	NA	NA	NA	NA	NA
Vinyl Acetate	ND(0.0062)	NA	NA	NA	NA	NA	NA
Vinyl Chloride	ND(0.012)	NA	NA	NA	NA	NA	NA
Xylenes (total)	ND(0.0062)	NA	NA	NA	NA	NA	NA
<b>Semivolatile Organics</b>							
1,2,4,5-Tetrachlorobenzene	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
1,2,4-Trichlorobenzene	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
1,2-Dichlorobenzene	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
1,2-Diphenylhydrazine	ND(4.3)	ND(0.39) J	ND(0.47)	ND(0.60) J	ND(0.48) J	ND(0.39) J	ND(0.57) J
1,3,5-Trinitrobenzene	ND(21)	ND(0.39)	ND(0.47) J	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
1,3-Dichlorobenzene	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Recreational Area R2						
	RAA15-E7 0-1	RAA15-E7(B) 1-3	RAA15-E7BSE 1-3	RAA15-E7NE 0-1	RAA15-E7NW 0-1	RAA15-E7SE 0-1	RAA15-E7SW 0-1
	02/27/03	05/04/04	09/20/04	05/04/04	05/04/04	05/04/04	05/04/04
<b>Semivolatile Organics (continued)</b>							
1,3-Dinitrobenzene	ND(4.3)	ND(0.78) J	ND(0.94)	ND(0.81) J	ND(0.96) J	ND(0.78) J	ND(0.88) J
1,4-Dichlorobenzene	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
1,4-Naphthoquinone	ND(21)	ND(0.78) J	ND(0.94)	ND(0.81) J	ND(0.96) J	ND(0.78) J	ND(0.88) J
1-Naphthylamine	ND(4.3)	ND(0.78)	ND(0.94)	ND(0.81)	ND(0.96)	ND(0.78)	ND(0.88)
2,3,4,6-Tetrachlorophenol	ND(4.3)	ND(0.39)	ND(0.47)	R	ND(0.48)	ND(0.39)	ND(0.57)
2,4,5-Trichlorophenol	ND(4.3)	ND(0.39)	ND(0.47)	R	ND(0.48)	ND(0.39)	ND(0.57)
2,4,6-Trichlorophenol	ND(4.3)	ND(0.39)	ND(0.47)	R	ND(0.48)	ND(0.39)	ND(0.57)
2,4-Dichlorophenol	ND(4.3)	ND(0.39)	ND(0.47)	R	ND(0.48)	ND(0.39)	ND(0.57)
2,4-Dimethylphenol	ND(4.3)	ND(0.39)	ND(0.47)	R	ND(0.48)	ND(0.39)	ND(0.57)
2,4-Dinitrophenol	ND(21)	ND(2.0)	ND(2.4)	R	ND(2.4)	ND(2.0)	ND(2.8)
2,4-Dinitrotoluene	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
2,6-Dichlorophenol	ND(4.3)	ND(0.39)	ND(0.47)	R	ND(0.48)	ND(0.39)	ND(0.57)
2,6-Dinitrotoluene	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
2-Acetylaminofluorene	ND(8.6)	ND(0.78)	ND(0.94)	ND(0.81)	ND(0.96)	ND(0.78)	ND(0.88)
2-Chloronaphthalene	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
2-Chlorophenol	ND(4.3)	ND(0.39)	ND(0.47)	R	ND(0.48)	ND(0.39)	ND(0.57)
2-Methylnaphthalene	0.65 J	2.1	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
2-Methylphenol	ND(4.3)	ND(0.39)	ND(0.47)	R	ND(0.48)	ND(0.39)	ND(0.57)
2-Naphthylamine	ND(4.3)	ND(0.78)	ND(0.94)	ND(0.81)	ND(0.96)	ND(0.78)	ND(0.88)
2-Nitroaniline	ND(21)	ND(2.0) J	ND(2.4)	ND(3.0) J	ND(2.4) J	ND(2.0) J	ND(2.8) J
2-Nitrophenol	ND(4.3)	ND(0.78)	ND(0.94)	R	ND(0.96)	ND(0.78)	ND(0.88)
2-Picoline	ND(8.6)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
3&4-Methylphenol	ND(8.6)	ND(0.78)	ND(0.94)	R	ND(0.96)	ND(0.78)	ND(0.88)
3,3'-Dichlorobenzidine	ND(21)	ND(0.78)	ND(0.94)	ND(1.2)	ND(0.96)	ND(0.78)	ND(1.1)
3,3'-Dimethylbenzidine	ND(21)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
3-Methylcholanthrene	ND(21)	ND(0.78)	ND(0.94) J	ND(0.81)	ND(0.96)	ND(0.78)	ND(0.88)
3-Nitroaniline	ND(21)	ND(2.0)	ND(2.4)	ND(3.0)	ND(2.4)	ND(2.0)	ND(2.8)
4,6-Dinitro-2-methylphenol	ND(21)	ND(0.39)	ND(0.47)	R	ND(0.48)	ND(0.39)	ND(0.57)
4-Aminobiphenyl	ND(21)	ND(0.78)	ND(0.94)	ND(0.81)	ND(0.96)	ND(0.78)	ND(0.88)
4-Bromophenyl-phenylether	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
4-Chloro-3-Methylphenol	ND(4.3)	ND(0.39)	ND(0.47)	R	ND(0.48)	ND(0.39)	ND(0.57)
4-Chloroaniline	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
4-Chlorobenzilate	ND(4.3)	ND(0.78)	ND(0.94)	ND(0.81)	ND(0.96)	ND(0.78)	ND(0.88)
4-Chlorophenyl-phenylether	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
4-Nitroaniline	ND(21)	ND(2.0) J	ND(2.4)	ND(2.0) J	ND(2.4) J	ND(2.0) J	ND(2.2) J
4-Nitrophenol	ND(21)	ND(2.0) J	ND(2.4) J	R	ND(2.4) J	ND(2.0) J	ND(2.8) J
4-Nitroquinoline-1-oxide	ND(43)	ND(0.78) J	ND(0.94) J	ND(0.81) J	ND(0.96) J	ND(0.78) J	ND(0.88) J
4-Phenylenediamine	ND(86)	ND(0.78)	ND(0.94)	ND(0.81)	ND(0.96)	ND(0.78)	ND(0.88)
5-Nitro-o-toluidine	ND(8.6)	ND(0.78)	ND(0.94)	ND(0.81)	ND(0.96)	ND(0.78)	ND(0.88)
7,12-Dimethylbenz(a)anthracene	ND(8.6)	ND(0.78)	ND(0.94)	ND(0.81)	ND(0.96)	ND(0.78)	ND(0.88)
a,a'-Dimethylphenethylamine	ND(21)	ND(0.78) J	ND(0.94) J	ND(0.81) J	ND(0.96) J	ND(0.78) J	ND(0.88) J
Acenaphthene	2.1 J	16	0.27 J	0.43 J	0.21 J	4.0	0.31 J
Acenaphthylene	1.4 J	0.56	ND(0.47)	ND(0.60)	1.2	0.48	0.24 J
Acetophenone	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Aniline	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Anthracene	5.8	33	0.57	0.74	1.6	9.8	1.0
Aramite	ND(21)	ND(0.78)	ND(0.94)	ND(0.81)	ND(0.96)	ND(0.78)	ND(0.88)
Benzidine	ND(43)	ND(0.78) J	ND(0.94) J	ND(1.2) J	ND(0.96) J	ND(0.78) J	ND(1.1) J
Benzo(a)anthracene	13	54	0.75	0.79	5.2	20	2.2
Benzo(a)pyrene	12	32	0.33 J	0.30 J	3.6	9.7	1.2
Benzo(b)fluoranthene	12	25	0.20 J	0.29 J	2.8	9.2	1.2
Benzo(g,h,i)perylene	5.2	19	ND(0.47)	0.14 J	2.3	4.8	0.67
Benzo(k)fluoranthene	9.1	32	0.50	0.34 J	4.0	11	1.3
Benzyl Alcohol	ND(4.3)	ND(0.78) J	ND(0.94)	R	ND(0.96) J	ND(0.78) J	ND(1.1) J
bis(2-Chloroethoxy)methane	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
bis(2-Chloroethyl)ether	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
bis(2-Chloroisopropyl)ether	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
bis(2-Ethylhexyl)phthalate	0.59 J	ND(0.38)	ND(0.46)	ND(0.40)	0.28 J	ND(0.39)	ND(0.43)
Butylbenzylphthalate	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Chrysene	15	54	0.86	0.83	6.0	20	2.2
Diallate	ND(8.6)	ND(0.78)	ND(0.94)	ND(0.81)	ND(0.96)	ND(0.78)	ND(0.88)
Dibenzo(a,h)anthracene	2.1 J	6.6	ND(0.47)	ND(0.60)	0.73	1.9	0.27 J

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in dry weight parts per million, ppm)

Parameter	Recreational Area R2						
	RAA15-E7 0-1	RAA15-E7(B) 1-3	RAA15-E7BSE 1-3	RAA15-E7NE 0-1	RAA15-E7NW 0-1	RAA15-E7SE 0-1	RAA15-E7SW 0-1
	Sample ID: 02/27/03	Sample ID: 05/04/04	Sample ID: 09/20/04	Sample ID: 05/04/04	Sample ID: 05/04/04	Sample ID: 05/04/04	Sample ID: 05/04/04
<b>Semivolatile Organics (continued)</b>							
Dibenzofuran	1.7 J	7.1	0.14 J	0.28 J	0.10 J	2.5	0.19 J
Diethylphthalate	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Dimethylphthalate	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Di-n-Butylphthalate	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Di-n-Octylphthalate	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Diphenylamine	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Ethyl Methanesulfonate	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Fluoranthene	33	160	3.2	3.3	13	57	5.7
Fluorene	3.2 J	14	0.26 J	0.42 J	0.44 J	4.8	0.43 J
Hexachlorobenzene	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Hexachlorobutadiene	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Hexachlorocyclopentadiene	ND(21)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Hexachloroethane	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Hexachlorophene	ND(87) J	ND(0.78)	ND(0.94)	ND(1.2)	ND(0.96)	ND(0.78)	ND(1.1)
Hexachloropropene	ND(43)	ND(0.39) J	ND(0.47)	ND(0.60) J	ND(0.48) J	ND(0.39) J	ND(0.57) J
Indeno(1,2,3-cd)pyrene	6.1	17	ND(0.47)	0.13 J	2.0	4.6	0.57
Isodrin	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Isophorone	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Isosafrole	ND(8.6)	ND(0.78)	ND(0.94)	ND(0.81)	ND(0.96)	ND(0.78)	ND(0.88)
Methapyrilene	ND(21)	ND(0.78) J	ND(0.94)	ND(0.81) J	ND(0.96) J	ND(0.78) J	ND(0.88) J
Methyl Methanesulfonate	ND(4.3)	ND(0.39) J	ND(0.47) J	ND(0.60) J	ND(0.48) J	ND(0.39) J	ND(0.57) J
Naphthalene	1.2 J	5.5	0.12 J	0.46 J	ND(0.48)	2.5	0.19 J
Nitrobenzene	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
N-Nitrosodiethylamine	ND(4.3)	ND(0.39) J	ND(0.47)	ND(0.60) J	ND(0.48) J	ND(0.39) J	ND(0.57) J
N-Nitrosodimethylamine	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
N-Nitroso-di-n-butylamine	ND(4.3)	ND(0.78)	ND(0.94)	ND(0.81)	ND(0.96)	ND(0.78)	ND(0.88)
N-Nitroso-di-n-propylamine	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
N-Nitrosodiphenylamine	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
N-Nitrosomethylethylamine	ND(4.3)	ND(0.78)	ND(0.94)	ND(0.81)	ND(0.96)	ND(0.78)	ND(0.88)
N-Nitrosomorpholine	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
N-Nitrosopiperidine	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
N-Nitrosopyrrolidine	ND(4.3)	ND(0.78)	ND(0.94)	ND(0.81)	ND(0.96)	ND(0.78)	ND(0.88)
o,o,o-Triethylphosphorothioate	ND(21)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
o-Toluidine	ND(8.6)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
p-Dimethylaminoazobenzene	ND(8.6)	ND(0.78)	ND(0.94)	ND(0.81)	ND(0.96)	ND(0.78)	ND(0.88)
Pentachlorobenzene	ND(4.3)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Pentachloroethane	ND(21)	ND(0.39) J	ND(0.47)	ND(0.60) J	ND(0.48) J	ND(0.39) J	ND(0.57) J
Pentachloronitrobenzene	ND(21)	ND(0.78) J	ND(0.94)	ND(0.81) J	ND(0.96) J	ND(0.78) J	ND(0.88) J
Pentachlorophenol	ND(21)	ND(2.0)	ND(2.4)	R	ND(2.4)	ND(2.0)	ND(2.8)
Phenacetin	ND(8.6)	ND(0.78) J	ND(0.94)	ND(0.81) J	ND(0.96) J	ND(0.78) J	ND(0.88) J
Phenanthrene	25	130	2.6	3.3	6.3	37	3.2
Phenol	0.41 J	ND(0.39)	ND(0.47)	R	ND(0.48)	ND(0.39)	ND(0.57)
Pronamide	ND(8.6)	ND(0.39)	ND(0.47) J	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Pyrene	22	130	2.4	2.4	12	43	4.5
Pyridine	ND(8.6)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Safrole	ND(8.6)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
Thionazin	ND(21)	ND(0.39)	ND(0.47)	ND(0.60)	ND(0.48)	ND(0.39)	ND(0.57)
<b>Furans</b>							
2,3,7,8-TCDF	ND(0.000018) X	NA	NA	NA	NA	NA	NA
TCDFs (total)	ND(0.00018) X	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	0.0000063 J	NA	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	0.000011 J	NA	NA	NA	NA	NA	NA
PeCDFs (total)	ND(0.00041) X	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	0.000021 J	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	ND(0.000045) X	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	ND(0.0000061) X	NA	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	ND(0.0000062) X	NA	NA	NA	NA	NA	NA
HxCDFs (total)	ND(0.00034) X	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	0.000040	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	0.000012 J	NA	NA	NA	NA	NA	NA
HpCDFs (total)	ND(0.00012) X	NA	NA	NA	NA	NA	NA
OCDF	0.000075	NA	NA	NA	NA	NA	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Date Collected:	Recreational Area R2						
	RAA15-E7 0-1 02/27/03	RAA15-E7(B) 1-3 05/04/04	RAA15-E7BSE 1-3 09/20/04	RAA15-E7NE 0-1 05/04/04	RAA15-E7NW 0-1 05/04/04	RAA15-E7SE 0-1 05/04/04	RAA15-E7SW 0-1 05/04/04
<b>Dioxins</b>							
2,3,7,8-TCDD	ND(0.0000015)	NA	NA	NA	NA	NA	NA
TCDDs (total)	ND(0.0000015)	NA	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	ND(0.0000045) X	NA	NA	NA	NA	NA	NA
PeCDDs (total)	ND(0.0000015) X	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	0.0000016 J	NA	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	0.0000047 J	NA	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	ND(0.0000036)	NA	NA	NA	NA	NA	NA
HxCDDs (total)	ND(0.000043) X	NA	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDD	0.000073	NA	NA	NA	NA	NA	NA
HpCDDs (total)	0.00013	NA	NA	NA	NA	NA	NA
OCDD	0.00065	NA	NA	NA	NA	NA	NA
Total TEQs (WHO TEFs)	0.000017	NA	NA	NA	NA	NA	NA
<b>Inorganics</b>							
Antimony	0.820 J	NA	NA	NA	NA	NA	NA
Arsenic	5.80	NA	NA	NA	NA	NA	NA
Barium	48.5	NA	NA	NA	NA	NA	NA
Beryllium	0.440 B	NA	NA	NA	NA	NA	NA
Cadmium	ND(0.650)	NA	NA	NA	NA	NA	NA
Chromium	15.5	NA	NA	NA	NA	NA	NA
Cobalt	7.90	NA	NA	NA	NA	NA	NA
Copper	44.4	NA	NA	NA	NA	NA	NA
Cyanide	0.300 B	NA	NA	NA	NA	NA	NA
Lead	187	NA	NA	NA	NA	NA	NA
Mercury	0.260	NA	NA	NA	NA	NA	NA
Nickel	17.8	NA	NA	NA	NA	NA	NA
Selenium	ND(0.650)	NA	NA	NA	NA	NA	NA
Silver	0.370 B	NA	NA	NA	NA	NA	NA
Sulfide	ND(13.0)	NA	NA	NA	NA	NA	NA
Thallium	ND(1.30) J	NA	NA	NA	NA	NA	NA
Tin	ND(13.0)	NA	NA	NA	NA	NA	NA
Vanadium	17.9	NA	NA	NA	NA	NA	NA
Zinc	148 J	NA	NA	NA	NA	NA	NA



**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	Recreational Area R2						
	RAA15-E7W	RAA15-E7W	RAA15-E8	RAA15-E8NE	RAA15-E8NEE	RAA15-E8NW	RAA15-E8NWNW
	0-1 09/20/04	1-3 09/20/04	1-3 02/26/03	1-3 05/04/04	1-3 09/16/04	1-3 05/04/04	1-3 09/16/04
<b>Volatile Organics</b>							
1,1,1,2-Tetrachloroethane	NA	NA	ND(0.0044)	NA	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	ND(0.0044)	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	ND(0.0044)	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	ND(0.0044)	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	ND(0.0044)	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	ND(0.0044)	NA	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	ND(0.0044)	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	ND(0.0044)	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	ND(0.0044)	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	ND(0.0044)	NA	NA	NA	NA
1,2-Dichloropropane	NA	NA	ND(0.0044)	NA	NA	NA	NA
1,4-Dioxane	NA	NA	ND(0.88) J	NA	NA	NA	NA
2-Butanone	NA	NA	ND(0.0044) J	NA	NA	NA	NA
2-Chloro-1,3-butadiene	NA	NA	ND(0.0044)	NA	NA	NA	NA
2-Chloroethylvinylether	NA	NA	ND(0.0088) J	NA	NA	NA	NA
2-Hexanone	NA	NA	ND(0.018) J	NA	NA	NA	NA
3-Chloropropene	NA	NA	ND(0.0044)	NA	NA	NA	NA
4-Methyl-2-pentanone	NA	NA	ND(0.018)	NA	NA	NA	NA
Acetone	NA	NA	ND(0.018) J	NA	NA	NA	NA
Acetonitrile	NA	NA	ND(0.088) J	NA	NA	NA	NA
Acrolein	NA	NA	ND(0.088) J	NA	NA	NA	NA
Acrylonitrile	NA	NA	ND(0.088)	NA	NA	NA	NA
Benzene	NA	NA	ND(0.0044)	NA	NA	NA	NA
Bromodichloromethane	NA	NA	ND(0.0044)	NA	NA	NA	NA
Bromoform	NA	NA	ND(0.0044)	NA	NA	NA	NA
Bromomethane	NA	NA	ND(0.0044)	NA	NA	NA	NA
Carbon Disulfide	NA	NA	ND(0.0044)	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	ND(0.0044)	NA	NA	NA	NA
Chlorobenzene	NA	NA	ND(0.0044)	NA	NA	NA	NA
Chloroethane	NA	NA	ND(0.0088)	NA	NA	NA	NA
Chloroform	NA	NA	ND(0.0044)	NA	NA	NA	NA
Chloromethane	NA	NA	ND(0.0044)	NA	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	ND(0.0044)	NA	NA	NA	NA
Dibromochloromethane	NA	NA	ND(0.0044)	NA	NA	NA	NA
Dibromomethane	NA	NA	ND(0.0044)	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	ND(0.0044)	NA	NA	NA	NA
Ethyl Methacrylate	NA	NA	ND(0.0044)	NA	NA	NA	NA
Ethylbenzene	NA	NA	ND(0.0044)	NA	NA	NA	NA
Iodomethane	NA	NA	ND(0.0044)	NA	NA	NA	NA
Isobutanol	NA	NA	ND(0.18) J	NA	NA	NA	NA
Methacrylonitrile	NA	NA	ND(0.0044)	NA	NA	NA	NA
Methyl Methacrylate	NA	NA	ND(0.0044)	NA	NA	NA	NA
Methylene Chloride	NA	NA	0.0020 J	NA	NA	NA	NA
Propionitrile	NA	NA	ND(0.0088)	NA	NA	NA	NA
Styrene	NA	NA	ND(0.0044)	NA	NA	NA	NA
Tetrachloroethene	NA	NA	ND(0.0044)	NA	NA	NA	NA
Toluene	NA	NA	0.0010 J	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	ND(0.0044)	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	ND(0.0044)	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	NA	NA	ND(0.0044)	NA	NA	NA	NA
Trichloroethene	NA	NA	ND(0.0044)	NA	NA	NA	NA
Trichlorofluoromethane	NA	NA	ND(0.0044)	NA	NA	NA	NA
Vinyl Acetate	NA	NA	ND(0.0044)	NA	NA	NA	NA
Vinyl Chloride	NA	NA	ND(0.0088)	NA	NA	NA	NA
Xylenes (total)	NA	NA	ND(0.0044)	NA	NA	NA	NA
<b>Semivolatile Organics</b>							
1,2,4,5-Tetrachlorobenzene	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	5.3	ND(0.35)
1,2,4-Trichlorobenzene	ND(0.49)	ND(0.44) [ND(0.44) J]	ND(18)	ND(0.37)	ND(0.35)	0.10 J	ND(0.35)
1,2-Dichlorobenzene	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
1,2-Diphenylhydrazine	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37) J	ND(0.35)	ND(0.40) J	ND(0.35)
1,3,5-Trinitrobenzene	ND(0.49) J	ND(0.44) J [ND(0.44) J]	ND(87)	ND(0.37)	ND(0.35) J	ND(0.40)	ND(0.35) J
1,3-Dichlorobenzene	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	Recreational Area R2						
	RAA15-E7W	RAA15-E7W	RAA15-E8	RAA15-E8NE	RAA15-E8NEE	RAA15-E8NW	RAA15-E8NWNW
	0-1 09/20/04	1-3 09/20/04	1-3 02/26/03	1-3 05/04/04	1-3 09/16/04	1-3 05/04/04	1-3 09/16/04
<b>Semivolatile Organics (continued)</b>							
1,3-Dinitrobenzene	ND(0.98)	ND(0.89) [ND(0.89)]	ND(18)	ND(0.75) J	ND(0.71)	ND(0.80) J	ND(0.70)
1,4-Dichlorobenzene	ND(0.49)	ND(0.44) [ND(0.44) J]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
1,4-Naphthoquinone	ND(0.98)	ND(0.89) [ND(0.89)]	ND(87)	ND(0.75) J	ND(0.71) J	ND(0.80) J	ND(0.70) J
1-Naphthylamine	ND(0.98)	ND(0.89) [ND(0.89)]	ND(18)	ND(0.75)	ND(0.71)	ND(0.80)	ND(0.70)
2,3,4,6-Tetrachlorophenol	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
2,4,5-Trichlorophenol	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
2,4,6-Trichlorophenol	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
2,4-Dichlorophenol	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
2,4-Dimethylphenol	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
2,4-Dinitrophenol	ND(2.5)	ND(2.3) [ND(2.3)]	ND(87)	ND(1.9)	ND(1.8) J	ND(2.0)	ND(1.8) J
2,4-Dinitrotoluene	ND(0.49)	ND(0.44) [ND(0.44) J]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
2,6-Dichlorophenol	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
2,6-Dinitrotoluene	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
2-Acetylaminofluorene	ND(0.98)	ND(0.89) [ND(0.89)]	ND(36)	ND(0.75)	ND(0.71)	ND(0.80)	ND(0.70)
2-Chloronaphthalene	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
2-Chlorophenol	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
2-Methylnaphthalene	ND(0.49)	ND(0.44) [ND(0.44)]	7.3 J	ND(0.37)	ND(0.35)	2.0	ND(0.35)
2-Methylphenol	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
2-Naphthylamine	ND(0.98)	ND(0.89) [ND(0.89)]	ND(18)	ND(0.75)	ND(0.71)	ND(0.80)	ND(0.70)
2-Nitroaniline	ND(2.5)	ND(2.3) [ND(2.3)]	ND(87)	ND(1.9) J	ND(1.8)	ND(2.0) J	ND(1.8)
2-Nitrophenol	ND(0.98)	ND(0.89) [ND(0.89)]	ND(18)	ND(0.75)	ND(0.71)	ND(0.80)	ND(0.70)
2-Picoline	ND(0.49)	ND(0.44) [ND(0.44)]	ND(36)	ND(0.37)	ND(0.35)	ND(0.40)	0.076 J
3,4-Methylphenol	ND(0.98)	ND(0.89) [ND(0.89)]	ND(36)	ND(0.75)	ND(0.71)	ND(0.80)	0.28 J
3,3'-Dichlorobenzidine	ND(0.98)	ND(0.89) [ND(0.89)]	ND(87)	ND(0.75)	ND(0.71)	ND(0.80)	ND(0.70)
3,3'-Dimethylbenzidine	ND(0.49)	ND(0.44) [ND(0.44)]	ND(87)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
3-Methylcholanthrene	ND(0.98) J	ND(0.89) J [ND(0.89) J]	5.7 J	ND(0.75)	ND(0.71) J	ND(0.80)	ND(0.70) J
3-Nitroaniline	ND(2.5)	ND(2.3) [ND(2.3)]	ND(87)	ND(1.9)	ND(1.8)	ND(2.0)	ND(1.8)
4,6-Dinitro-2-methylphenol	ND(0.49)	ND(0.44) [ND(0.44)]	ND(87)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
4-Aminobiphenyl	ND(0.98)	ND(0.89) [ND(0.89)]	ND(87)	ND(0.75)	ND(0.71)	ND(0.80)	ND(0.70)
4-Bromophenyl-phenylether	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
4-Chloro-3-Methylphenol	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
4-Chloroaniline	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
4-Chlorobenzilate	ND(0.98)	ND(0.89) [ND(0.89)]	ND(18)	ND(0.75)	ND(0.71)	ND(0.80)	ND(0.70)
4-Chlorophenyl-phenylether	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
4-Nitroaniline	ND(2.5)	ND(2.3) [ND(2.3)]	ND(87)	ND(1.9) J	ND(1.8)	ND(2.0) J	ND(1.8)
4-Nitrophenol	ND(2.5) J	ND(2.3) J [ND(2.3) J]	ND(87)	ND(1.9) J	ND(1.8) J	ND(2.0) J	ND(1.8) J
4-Nitroquinoline-1-oxide	ND(0.98) J	ND(0.89) J [ND(0.89) J]	ND(180)	ND(0.75) J	ND(0.71) J	ND(0.80) J	ND(0.70) J
4-Phenylenediamine	ND(0.98)	ND(0.89) [ND(0.89)]	ND(360)	ND(0.75)	ND(0.71)	ND(0.80)	ND(0.70)
5-Nitro-o-toluidine	ND(0.98)	ND(0.89) [ND(0.89)]	ND(36)	ND(0.75)	ND(0.71)	ND(0.80)	ND(0.70)
7,12-Dimethylbenz(a)anthracene	ND(0.98)	ND(0.89) [ND(0.89)]	ND(36)	ND(0.75)	ND(0.71)	ND(0.80)	ND(0.70)
a,a'-Dimethylphenethylamine	ND(0.98) J	ND(0.89) J [ND(0.89) J]	ND(87)	ND(0.75) J	ND(0.71)	ND(0.80) J	ND(0.70)
Acenaphthene	ND(0.49)	ND(0.44) [ND(0.44) J]	30	1.5	ND(0.35)	13	2.8
Acenaphthylene	ND(0.49)	ND(0.44) [ND(0.44)]	2.2 J	0.59	ND(0.35)	0.74	4.0
Acetophenone	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	0.16 J
Aniline	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
Anthracene	ND(0.49)	ND(0.44) [ND(0.44)]	80	12	0.12 J	30	14
Aramite	ND(0.98)	ND(0.89) [ND(0.89)]	ND(87)	ND(0.75)	ND(0.71)	ND(0.80)	ND(0.70)
Benzdine	ND(0.98) J	ND(0.89) J [ND(0.89) J]	ND(180)	ND(0.75) J	ND(0.71) J	ND(0.80) J	ND(0.70) J
Benzo(a)anthracene	ND(0.49)	ND(0.44) [ND(0.44)]	210	60	0.19 J	100	27
Benzo(a)pyrene	ND(0.49)	ND(0.44) [ND(0.44)]	160	28	0.14 J	38	14
Benzo(b)fluoranthene	ND(0.49)	ND(0.44) [ND(0.44)]	160	29	0.10 J	37	11
Benzo(g,h,i)perylene	ND(0.49)	ND(0.44) [ND(0.44)]	36	14	0.098 J	18	4.5
Benzo(k)fluoranthene	ND(0.49)	ND(0.44) [ND(0.44)]	120	28	0.16 J	38	16
Benzyl Alcohol	ND(0.98)	ND(0.89) [ND(0.89)]	ND(18)	ND(0.75) J	ND(0.71)	ND(0.80) J	ND(0.70)
bis(2-Chloroethoxy)methane	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
bis(2-Chloroethyl)ether	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
bis(2-Chloroisopropyl)ether	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
bis(2-Ethylhexyl)phthalate	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.39)	ND(0.35)
Butylbenzylphthalate	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
Chrysene	ND(0.49)	ND(0.44) [ND(0.44)]	200	58	0.25 J	98	29
Diallylate	ND(0.98)	ND(0.89) [ND(0.89)]	ND(36)	ND(0.75)	ND(0.71)	ND(0.80)	ND(0.70)
Di benzo(a,h)anthracene	ND(0.49)	ND(0.44) [ND(0.44)]	19	4.2	ND(0.35)	6.1	1.7

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	Recreational Area R2						
	RAA15-E7W 0-1 09/20/04	RAA15-E7W 1-3 09/20/04	RAA15-E8 1-3 02/26/03	RAA15-E8NE 1-3 05/04/04	RAA15-E8NEE 1-3 09/16/04	RAA15-E8NW 1-3 05/04/04	RAA15-E8NWNW 1-3 09/16/04
	<b>Semivolatle Organics (continued)</b>						
Dibenzofuran	ND(0.49)	ND(0.44) [ND(0.44)]	20	0.82	ND(0.35)	6.3	4.3
Diethylphthalate	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
Dimethylphthalate	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
Di-n-Butylphthalate	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
Di-n-Octylphthalate	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
Diphenylamine	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
Ethyl Methanesulfonate	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
Fluoranthene	0.25 J	ND(0.44) [ND(0.44)]	520	110	0.54	270	74
Fluorene	ND(0.49)	ND(0.44) [ND(0.44)]	38	2.3	ND(0.35)	14	6.3
Hexachlorobenzene	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
Hexachlorobutadiene	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
Hexachlorocyclopentadiene	ND(0.49)	ND(0.44) [ND(0.44)]	ND(87)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
Hexachloroethane	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
Hexachlorophene	ND(0.98)	ND(0.89) [ND(0.89)]	ND(360) J	ND(0.75)	ND(0.71)	ND(0.80)	ND(0.70)
Hexachloropropene	ND(0.49)	ND(0.44) [ND(0.44)]	ND(180)	ND(0.37) J	ND(0.35)	ND(0.40) J	ND(0.35)
Indeno(1,2,3-cd)pyrene	ND(0.49)	ND(0.44) [ND(0.44)]	49	12	ND(0.35)	17	4.6
Isodrin	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
Isophorone	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
Isosafrole	ND(0.98)	ND(0.89) [ND(0.89)]	ND(36)	ND(0.75)	ND(0.71) J	ND(0.80)	ND(0.70) J
Methapyriene	ND(0.98)	ND(0.89) [ND(0.89)]	ND(87)	ND(0.75) J	ND(0.71) J	ND(0.80) J	ND(0.70) J
Methyl Methanesulfonate	ND(0.49) J	ND(0.44) J [ND(0.44) J]	ND(18)	ND(0.37) J	ND(0.35)	ND(0.40) J	ND(0.35)
Naphthalene	ND(0.49)	ND(0.44) [ND(0.44)]	20	0.52	ND(0.35)	6.9	3.2
Nitrobenzene	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
N-Nitrosodiethylamine	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37) J	ND(0.35)	ND(0.40) J	ND(0.35)
N-Nitrosodimethylamine	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
N-Nitroso-di-n-butylamine	ND(0.98)	ND(0.89) [ND(0.89)]	ND(18)	ND(0.75)	ND(0.71)	ND(0.80)	ND(0.70)
N-Nitroso-di-n-propylamine	ND(0.49)	ND(0.44) [ND(0.44) J]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
N-Nitrosodiphenylamine	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
N-Nitrosomethylethylamine	ND(0.98)	ND(0.89) [ND(0.89)]	ND(18)	ND(0.75)	ND(0.71)	ND(0.80)	ND(0.70)
N-Nitrosomorpholine	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
N-Nitrosopiperidine	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
N-Nitrosopyrrolidine	ND(0.98)	ND(0.89) [ND(0.89)]	ND(18)	ND(0.75)	ND(0.71)	ND(0.80)	ND(0.70)
o,o,o-Triethylphosphorothioate	ND(0.49)	ND(0.44) [ND(0.44)]	ND(87)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
o-Toluidine	ND(0.49)	ND(0.44) [ND(0.44)]	ND(36)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
p-Dimethylaminoazobenzene	ND(0.98)	ND(0.89) [ND(0.89)]	ND(36)	ND(0.75)	ND(0.71) J	ND(0.80)	ND(0.70) J
Pentachlorobenzene	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	0.37 J	ND(0.35)
Pentachloroethane	ND(0.49)	ND(0.44) [ND(0.44)]	ND(87)	ND(0.37) J	ND(0.35)	ND(0.40) J	ND(0.35)
Pentachloronitrobenzene	ND(0.98)	ND(0.89) [ND(0.89)]	ND(87)	ND(0.75) J	ND(0.71)	ND(0.80) J	ND(0.70)
Pentachlorophenol	ND(2.5)	ND(2.3) [ND(2.3)]	ND(87)	ND(1.9)	ND(1.8)	ND(2.0)	ND(1.8)
Phenacetin	ND(0.98)	ND(0.89) [ND(0.89)]	ND(36)	ND(0.75) J	ND(0.71)	ND(0.80) J	ND(0.70)
Phenanthrene	0.16 J	ND(0.44) [ND(0.44)]	300	39	0.34 J	150	57
Phenol	ND(0.49)	ND(0.44) [ND(0.44)]	ND(18)	ND(0.37)	ND(0.35)	ND(0.40)	0.24 J
Pronamide	ND(0.49) J	ND(0.44) J [ND(0.44) J]	ND(36)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
Pyrene	0.20 J	ND(0.44) [ND(0.44) J]	360	97	0.42	200	59
Pyridine	ND(0.49)	ND(0.44) [ND(0.44)]	ND(36)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
Safrole	ND(0.49)	ND(0.44) [ND(0.44)]	ND(36)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
Thionazin	ND(0.49)	ND(0.44) [ND(0.44)]	ND(87)	ND(0.37)	ND(0.35)	ND(0.40)	ND(0.35)
<b>Furans</b>							
2,3,7,8-TCDF	NA	NA	0.000050	NA	NA	NA	NA
TCDFs (total)	NA	NA	ND(0.00068) X	NA	NA	NA	NA
1,2,3,7,8-PeCDF	NA	NA	0.000038 J	NA	NA	NA	NA
2,3,4,7,8-PeCDF	NA	NA	0.000045 J	NA	NA	NA	NA
PeCDFs (total)	NA	NA	ND(0.0013) XJ	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	NA	NA	0.00029 J	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	NA	NA	ND(0.00016) XJ	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	NA	NA	ND(0.000013) XJ	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	NA	NA	ND(0.000018) XJ	NA	NA	NA	NA
HxCDFs (total)	NA	NA	ND(0.0012) XJ	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	NA	NA	0.00015 J	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	NA	NA	0.00013 J	NA	NA	NA	NA
HpCDFs (total)	NA	NA	ND(0.00044) XJ	NA	NA	NA	NA
OCDF	NA	NA	0.00022 J	NA	NA	NA	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Recreational Area R2						
	RAA15-E7W	RAA15-E7W	RAA15-E8	RAA15-E8NE	RAA15-E8NEE	RAA15-E8NW	RAA15-E8NWNW
	0-1 09/20/04	1-3 09/20/04	1-3 02/26/03	1-3 05/04/04	1-3 09/16/04	1-3 05/04/04	1-3 09/16/04
<b>Dioxins</b>							
2,3,7,8-TCDD	NA	NA	ND(0.000079)	NA	NA	NA	NA
TCDDs (total)	NA	NA	ND(0.000064) X	NA	NA	NA	NA
1,2,3,7,8-PeCDD	NA	NA	ND(0.00063) XJ	NA	NA	NA	NA
PeCDDs (total)	NA	NA	ND(0.0023) XJ	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	NA	NA	ND(0.000057) XJ	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	NA	NA	ND(0.000086) XJ	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	NA	NA	ND(0.000076) XJ	NA	NA	NA	NA
HxCDDs (total)	NA	NA	ND(0.0013) XJ	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDD	NA	NA	0.00069 J	NA	NA	NA	NA
HpCDDs (total)	NA	NA	0.00019 J	NA	NA	NA	NA
OCDD	NA	NA	0.00061	NA	NA	NA	NA
Total TEQs (WHO TEFs)	NA	NA	0.00039	NA	NA	NA	NA
<b>Inorganics</b>							
Antimony	NA	NA	ND(6.50) J	NA	NA	NA	NA
Arsenic	NA	NA	4.40	NA	NA	NA	NA
Barium	NA	NA	31.2	NA	NA	NA	NA
Beryllium	NA	NA	ND(0.330)	NA	NA	NA	NA
Cadmium	NA	NA	0.390 B	NA	NA	NA	NA
Chromium	NA	NA	9.60	NA	NA	NA	NA
Cobalt	NA	NA	7.00	NA	NA	NA	NA
Copper	NA	NA	34.2	NA	NA	NA	NA
Cyanide	NA	NA	0.210 B	NA	NA	NA	NA
Lead	NA	NA	53.4	NA	NA	NA	NA
Mercury	NA	NA	0.130	NA	NA	NA	NA
Nickel	NA	NA	12.2 J	NA	NA	NA	NA
Selenium	NA	NA	6.20 J	NA	NA	NA	NA
Silver	NA	NA	1.20	NA	NA	NA	NA
Sulfide	NA	NA	ND(10.8)	NA	NA	NA	NA
Thallium	NA	NA	ND(1.10)	NA	NA	NA	NA
Tin	NA	NA	ND(10.6)	NA	NA	NA	NA
Vanadium	NA	NA	10.6	NA	NA	NA	NA
Zinc	NA	NA	105	NA	NA	NA	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	Recreational Area R2					
	Sample ID: Sample Depth(Feet): Date Collected:	RAA15-E8SE 1-3 05/04/04	RAA15-E8SW 1-3 05/04/04	RAA15-F7 0-1 09/16/04	RAA15-F7 1-3 09/16/04	RAA15-F7 6-8 03/05/03	RAA15-F7 6-10 03/05/03
<b>Volatile Organics</b>							
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	ND(0.0093)	NA	
1,1,1-Trichloroethane	NA	NA	NA	NA	ND(0.0093)	NA	
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	ND(0.0093)	NA	
1,1,2-Trichloroethane	NA	NA	NA	NA	ND(0.0093)	NA	
1,1-Dichloroethane	NA	NA	NA	NA	ND(0.0093)	NA	
1,1-Dichloroethene	NA	NA	NA	NA	ND(0.0093)	NA	
1,2,3-Trichloropropane	NA	NA	NA	NA	ND(0.0093)	NA	
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	ND(0.0093)	NA	
1,2-Dibromoethane	NA	NA	NA	NA	ND(0.0093)	NA	
1,2-Dichloroethane	NA	NA	NA	NA	ND(0.0093)	NA	
1,2-Dichloropropane	NA	NA	NA	NA	ND(0.0093)	NA	
1,4-Dioxane	NA	NA	NA	NA	ND(1.9) J	NA	
2-Butanone	NA	NA	NA	NA	0.014 J	NA	
2-Chloro-1,3-butadiene	NA	NA	NA	NA	ND(0.0093) J	NA	
2-Chloroethylvinylether	NA	NA	NA	NA	ND(0.019) J	NA	
2-Hexanone	NA	NA	NA	NA	ND(0.037)	NA	
3-Chloropropene	NA	NA	NA	NA	ND(0.0093)	NA	
4-Methyl-2-pentanone	NA	NA	NA	NA	ND(0.037)	NA	
Acetone	NA	NA	NA	NA	0.033 J	NA	
Acetonitrile	NA	NA	NA	NA	ND(0.19)	NA	
Acrolein	NA	NA	NA	NA	ND(0.19) J	NA	
Acrylonitrile	NA	NA	NA	NA	ND(0.19) J	NA	
Benzene	NA	NA	NA	NA	0.0021 J	NA	
Bromodichloromethane	NA	NA	NA	NA	ND(0.0093)	NA	
Bromoform	NA	NA	NA	NA	ND(0.0093)	NA	
Bromomethane	NA	NA	NA	NA	ND(0.0093)	NA	
Carbon Disulfide	NA	NA	NA	NA	ND(0.0093)	NA	
Carbon Tetrachloride	NA	NA	NA	NA	ND(0.0093)	NA	
Chlorobenzene	NA	NA	NA	NA	ND(0.0093)	NA	
Chloroethane	NA	NA	NA	NA	ND(0.019)	NA	
Chloroform	NA	NA	NA	NA	ND(0.0093)	NA	
Chloromethane	NA	NA	NA	NA	ND(0.0093)	NA	
cis-1,3-Dichloropropene	NA	NA	NA	NA	ND(0.0093)	NA	
Dibromochloromethane	NA	NA	NA	NA	ND(0.0093)	NA	
Dibromomethane	NA	NA	NA	NA	ND(0.0093)	NA	
Dichlorodifluoromethane	NA	NA	NA	NA	ND(0.0093)	NA	
Ethyl Methacrylate	NA	NA	NA	NA	ND(0.0093) J	NA	
Ethylbenzene	NA	NA	NA	NA	ND(0.0093)	NA	
Iodomethane	NA	NA	NA	NA	ND(0.0093)	NA	
Isobutanol	NA	NA	NA	NA	ND(0.37) J	NA	
Methacrylonitrile	NA	NA	NA	NA	ND(0.0093)	NA	
Methyl Methacrylate	NA	NA	NA	NA	ND(0.0093)	NA	
Methylene Chloride	NA	NA	NA	NA	0.0025 J	NA	
Propionitrile	NA	NA	NA	NA	ND(0.019)	NA	
Styrene	NA	NA	NA	NA	ND(0.0093)	NA	
Tetrachloroethene	NA	NA	NA	NA	ND(0.0093)	NA	
Toluene	NA	NA	NA	NA	ND(0.0093)	NA	
trans-1,2-Dichloroethene	NA	NA	NA	NA	0.0057 J	NA	
trans-1,3-Dichloropropene	NA	NA	NA	NA	ND(0.0093)	NA	
trans-1,4-Dichloro-2-butene	NA	NA	NA	NA	ND(0.0093)	NA	
Trichloroethene	NA	NA	NA	NA	0.0011 J	NA	
Trichlorofluoromethane	NA	NA	NA	NA	ND(0.0093)	NA	
Vinyl Acetate	NA	NA	NA	NA	ND(0.0093)	NA	
Vinyl Chloride	NA	NA	NA	NA	0.0028 J	NA	
Xylenes (total)	NA	NA	NA	NA	ND(0.0093)	NA	
<b>Semivolatile Organics</b>							
1,2,4,5-Tetrachlorobenzene	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)	
1,2,4-Trichlorobenzene	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)	
1,2-Dichlorobenzene	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)	
1,2-Diphenylhydrazine	ND(0.38) J	ND(0.38) J	ND(0.50)	ND(0.46)	NA	ND(0.44)	
1,3,5-Trinitrobenzene	ND(0.38)	ND(0.38)	ND(0.50) J	ND(0.46) J	NA	ND(2.1)	
1,3-Dichlorobenzene	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)	

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:		Recreational Area R2			
	Sample ID: Sample Depth(Feet): Date Collected:	RAA15-E8SE 1-3 05/04/04	RAA15-E8SW 1-3 05/04/04	RAA15-F7 0-1 09/16/04	RAA15-F7 1-3 09/16/04	RAA15-F7 6-8 03/05/03
<b>Semivolatile Organics (continued)</b>						
1,3-Dinitrobenzene	ND(0.76) J	ND(0.76) J	ND(1.0)	ND(0.92)	NA	ND(0.44)
1,4-Dichlorobenzene	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
1,4-Naphthoquinone	ND(0.76) J	ND(0.76) J	ND(1.0) J	ND(0.92) J	NA	ND(2.1)
1-Naphthylamine	ND(0.76)	ND(0.76)	ND(1.0)	ND(0.92)	NA	ND(0.44)
2,3,4,6-Tetrachlorophenol	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
2,4,5-Trichlorophenol	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
2,4,6-Trichlorophenol	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
2,4-Dichlorophenol	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
2,4-Dimethylphenol	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
2,4-Dinitrophenol	ND(1.9)	ND(1.9)	ND(2.6) J	ND(2.3) J	NA	ND(2.1)
2,4-Dinitrotoluene	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
2,6-Dichlorophenol	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
2,6-Dinitrotoluene	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
2-Acetylaminofluorene	ND(0.76)	ND(0.76)	ND(1.0)	ND(0.92)	NA	ND(0.88)
2-Chloronaphthalene	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
2-Chlorophenol	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
2-Methylnaphthalene	ND(0.38)	1.3	ND(0.50)	ND(0.46)	NA	ND(0.44)
2-Methylphenol	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
2-Naphthylamine	ND(0.76)	ND(0.76)	ND(1.0)	ND(0.92)	NA	ND(0.44)
2-Nitroaniline	ND(1.9) J	ND(1.9) J	ND(2.6)	ND(2.3)	NA	ND(2.1)
2-Nitrophenol	ND(0.76)	ND(0.76)	ND(1.0)	ND(0.92)	NA	ND(0.44)
2-Picoline	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.88)
3&4-Methylphenol	ND(0.76)	ND(0.76)	ND(1.0)	ND(0.92)	NA	ND(0.88)
3,3'-Dichlorobenzidine	ND(0.76)	ND(0.76)	ND(1.0)	ND(0.92)	NA	ND(2.1)
3,3'-Dimethylbenzidine	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(2.1)
3-Methylcholanthrene	ND(0.76)	ND(0.76)	ND(1.0) J	ND(0.92) J	NA	ND(2.1)
3-Nitroaniline	ND(1.9)	ND(1.9)	ND(2.6)	ND(2.3)	NA	ND(2.1)
4,6-Dinitro-2-methylphenol	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(2.1)
4-Aminobiphenyl	ND(0.76)	ND(0.76)	ND(1.0)	ND(0.92)	NA	ND(2.1)
4-Bromophenyl-phenylether	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
4-Chloro-3-Methylphenol	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
4-Chloroaniline	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
4-Chlorobenzilate	ND(0.76)	ND(0.76)	ND(1.0)	ND(0.92)	NA	ND(0.44)
4-Chlorophenyl-phenylether	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
4-Nitroaniline	ND(1.9) J	ND(1.9) J	ND(2.6)	ND(2.3)	NA	ND(2.1)
4-Nitrophenol	ND(1.9) J	ND(1.9) J	ND(2.6) J	ND(2.3) J	NA	ND(2.1)
4-Nitroquinoline-1-oxide	ND(0.76) J	ND(0.76) J	ND(1.0) J	ND(0.92) J	NA	ND(4.4)
4-Phenylenediamine	ND(0.76)	ND(0.76)	ND(1.0)	ND(0.92)	NA	ND(8.8)
5-Nitro-o-toluidine	ND(0.76)	ND(0.76)	ND(1.0)	ND(0.92)	NA	ND(0.88)
7,12-Dimethylbenz(a)anthracene	ND(0.76)	ND(0.76)	ND(1.0)	ND(0.92)	NA	ND(0.88)
a,a'-Dimethylphenethylamine	ND(0.76) J	ND(0.76) J	ND(1.0)	ND(0.92)	NA	ND(2.1)
Acenaphthene	0.11 J	7.2	ND(0.50)	ND(0.46)	NA	ND(0.44)
Acenaphthylene	0.083 J	2.2	0.13 J	ND(0.46)	NA	ND(0.44)
Acetophenone	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
Aniline	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
Anthracene	0.55	18	0.25 J	0.11 J	NA	ND(0.44)
Aramite	ND(0.76)	ND(0.76)	ND(1.0)	ND(0.92)	NA	ND(2.1)
Benzidine	ND(0.76) J	ND(0.76) J	ND(1.0) J	ND(0.92) J	NA	ND(4.4)
Benzo(a)anthracene	2.2	33	0.57	0.18 J	NA	ND(0.44)
Benzo(a)pyrene	1.3	15	0.46 J	0.12 J	NA	ND(0.44)
Benzo(b)fluoranthene	1.1	14	0.23 J	ND(0.46)	NA	ND(0.44)
Benzo(g,h,i)perylene	0.70	6.7	0.20 J	ND(0.46)	NA	ND(0.44)
Benzo(k)fluoranthene	1.4	22	0.65	0.13 J	NA	ND(0.44)
Benzyl Alcohol	ND(0.76) J	ND(0.76) J	ND(1.0)	ND(0.92)	NA	ND(0.44)
bis(2-Chloroethoxy)methane	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
bis(2-Chloroethyl)ether	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
bis(2-Chloroisopropyl)ether	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
bis(2-Ethylhexyl)phthalate	ND(0.37)	1.2	ND(0.50)	ND(0.45)	NA	ND(0.44)
Butylbenzylphthalate	ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
Chrysene	2.1	33	0.90	0.26 J	NA	ND(0.44)
Diallylate	ND(0.76)	ND(0.76)	ND(1.0)	ND(0.92)	NA	ND(0.88)
Dibenzo(a,h)anthracene	0.26 J	2.6	ND(0.50)	ND(0.46)	NA	ND(0.44)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	Recreational Area R2					
	Sample ID: Sample Depth(Feet): Date Collected:	RAA15-E8SE 1-3 05/04/04	RAA15-E8SW 1-3 05/04/04	RAA15-F7 0-1 09/16/04	RAA15-F7 1-3 09/16/04	RAA15-F7 6-8 03/05/03	RAA15-F7 6-10 03/05/03
<b>Semivolatile Organics (continued)</b>							
Dibenzofuran		ND(0.38)	3.9	ND(0.50)	ND(0.46)	NA	ND(0.44)
Diethylphthalate		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
Dimethylphthalate		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
Di-n-Butylphthalate		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
Di-n-Octylphthalate		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
Diphenylamine		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
Ethyl Methanesulfonate		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
Fluoranthene		4.2	150	1.8	0.52	NA	ND(0.44)
Fluorene		0.14 J	7.5	ND(0.50)	ND(0.46)	NA	ND(0.44)
Hexachlorobenzene		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
Hexachlorobutadiene		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
Hexachlorocyclopentadiene		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(2.1)
Hexachloroethane		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
Hexachlorophene		ND(0.76)	ND(0.76)	ND(1.0)	ND(0.92)	NA	ND(9.0)
Hexachloropropene		ND(0.38) J	ND(0.38) J	ND(0.50)	ND(0.46)	NA	ND(4.4)
Indeno(1,2,3-cd)pyrene		0.63	6.6	0.20 J	ND(0.46)	NA	ND(0.44)
Isodrin		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
Isophorone		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
Isosafrole		ND(0.76)	ND(0.76)	ND(1.0) J	ND(0.92) J	NA	ND(0.88)
Methapyriene		ND(0.76) J	ND(0.76) J	ND(1.0) J	ND(0.92) J	NA	ND(2.1)
Methyl Methanesulfonate		ND(0.38) J	ND(0.38) J	ND(0.50)	ND(0.46)	NA	ND(0.44)
Naphthalene		ND(0.38)	3.7	ND(0.50)	ND(0.46)	NA	ND(0.44)
Nitrobenzene		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
N-Nitrosodiethylamine		ND(0.38) J	ND(0.38) J	ND(0.50)	ND(0.46)	NA	ND(0.44)
N-Nitrosodimethylamine		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
N-Nitroso-di-n-butylamine		ND(0.76)	ND(0.76)	ND(1.0)	ND(0.92)	NA	ND(0.44)
N-Nitroso-di-n-propylamine		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
N-Nitrosodiphenylamine		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
N-Nitrosomethylethylamine		ND(0.76)	ND(0.76)	ND(1.0)	ND(0.92)	NA	ND(0.44)
N-Nitrosomorpholine		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
N-Nitrosopiperidine		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
N-Nitrosopyrrolidine		ND(0.76)	ND(0.76)	ND(1.0)	ND(0.92)	NA	ND(0.44)
o,o,o-Triethylphosphorothioate		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(2.1)
o-Toluidine		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.88)
p-Dimethylaminoazobenzene		ND(0.76)	ND(0.76)	ND(1.0) J	ND(0.92) J	NA	ND(0.88)
Pentachlorobenzene		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
Pentachloroethane		ND(0.38) J	ND(0.38) J	ND(0.50)	ND(0.46)	NA	ND(2.1)
Pentachloronitrobenzene		ND(0.76) J	ND(0.76) J	ND(1.0)	ND(0.92)	NA	ND(2.1)
Pentachlorophenol		ND(1.9)	ND(1.9)	ND(2.6)	ND(2.3)	NA	ND(2.1)
Phenacetin		ND(0.76) J	ND(0.76) J	ND(1.0)	ND(0.92)	NA	ND(0.88)
Phenanthrene		1.9	64	0.99	0.47	NA	ND(0.44)
Phenol		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.44)
Pronamide		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.88)
Pyrene		3.5	71	1.5	0.48	NA	ND(0.44)
Pyridine		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.88)
Safrole		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(0.88)
Thionazin		ND(0.38)	ND(0.38)	ND(0.50)	ND(0.46)	NA	ND(2.1)
<b>Furans</b>							
2,3,7,8-TCDF		NA	NA	NA	NA	NA	ND(0.00000025)
TCDFs (total)		NA	NA	NA	NA	NA	ND(0.00000025)
1,2,3,7,8-PeCDF		NA	NA	NA	NA	NA	ND(0.00000015)
2,3,4,7,8-PeCDF		NA	NA	NA	NA	NA	ND(0.00000014)
PeCDFs (total)		NA	NA	NA	NA	NA	ND(0.00000014)
1,2,3,4,7,8-HxCDF		NA	NA	NA	NA	NA	ND(0.00000093)
1,2,3,6,7,8-HxCDF		NA	NA	NA	NA	NA	ND(0.00000086)
1,2,3,7,8,9-HxCDF		NA	NA	NA	NA	NA	ND(0.00000011)
2,3,4,6,7,8-HxCDF		NA	NA	NA	NA	NA	ND(0.00000099)
HxCDFs (total)		NA	NA	NA	NA	NA	ND(0.00000096)
1,2,3,4,6,7,8-HpCDF		NA	NA	NA	NA	NA	ND(0.00000014)
1,2,3,4,7,8,9-HpCDF		NA	NA	NA	NA	NA	ND(0.00000018)
HpCDFs (total)		NA	NA	NA	NA	NA	ND(0.00000016)
OCDF		NA	NA	NA	NA	NA	ND(0.00000019)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	Recreational Area R2					
	Sample ID: Sample Depth(Feet): Date Collected:	RAA15-E8SE 1-3 05/04/04	RAA15-E8SW 1-3 05/04/04	RAA15-F7 0-1 09/16/04	RAA15-F7 1-3 09/16/04	RAA15-F7 6-8 03/05/03	RAA15-F7 6-10 03/05/03
<b>Dioxins</b>							
2,3,7,8-TCDD		NA	NA	NA	NA	NA	ND(0.00000033)
TCDDs (total)		NA	NA	NA	NA	NA	ND(0.00000033)
1,2,3,7,8-PeCDD		NA	NA	NA	NA	NA	ND(0.00000016)
PeCDDs (total)		NA	NA	NA	NA	NA	ND(0.00000016)
1,2,3,4,7,8-HxCDD		NA	NA	NA	NA	NA	ND(0.00000018)
1,2,3,6,7,8-HxCDD		NA	NA	NA	NA	NA	ND(0.00000016)
1,2,3,7,8,9-HxCDD		NA	NA	NA	NA	NA	ND(0.00000017)
HxCDDs (total)		NA	NA	NA	NA	NA	ND(0.00000017)
1,2,3,4,6,7,8-HpCDD		NA	NA	NA	NA	NA	ND(0.00000019)
HpCDDs (total)		NA	NA	NA	NA	NA	ND(0.00000019)
OCDD		NA	NA	NA	NA	NA	ND(0.00000070) X
Total TEQs (WHO TEFs)		NA	NA	NA	NA	NA	0.00000034
<b>Inorganics</b>							
Antimony		NA	NA	NA	NA	NA	0.660 J
Arsenic		NA	NA	NA	NA	NA	5.70
Barium		NA	NA	NA	NA	NA	110
Beryllium		NA	NA	NA	NA	NA	0.380 B
Cadmium		NA	NA	NA	NA	NA	0.0640 B
Chromium		NA	NA	NA	NA	NA	9.70
Cobalt		NA	NA	NA	NA	NA	4.60 B
Copper		NA	NA	NA	NA	NA	21.4
Cyanide		NA	NA	NA	NA	NA	ND(0.670)
Lead		NA	NA	NA	NA	NA	99.7
Mercury		NA	NA	NA	NA	NA	0.0280 J
Nickel		NA	NA	NA	NA	NA	10.4
Selenium		NA	NA	NA	NA	NA	ND(0.670)
Silver		NA	NA	NA	NA	NA	ND(1.30)
Sulfide		NA	NA	NA	NA	NA	21.5
Thallium		NA	NA	NA	NA	NA	0.770 J
Tin		NA	NA	NA	NA	NA	ND(7.20)
Vanadium		NA	NA	NA	NA	NA	15.6
Zinc		NA	NA	NA	NA	NA	80.0



**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Date Collected:	Recreational Area R3A					
	RAA15-E15N 0-1 05/04/04	RAA15-E15N 1-3 05/04/04	RAA15-E15N 3-6 05/04/04	RAA15-E15N 4-6 05/04/04	RAA15-E15N 6-10 05/04/04	RAA15-E15N 8-10 05/04/04
<b>Volatile Organics</b>						
1,1,1,2-Tetrachloroethane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
1,1,1-Trichloroethane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
1,1,2,2-Tetrachloroethane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
1,1,2-Trichloroethane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
1,1-Dichloroethane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
1,1-Dichloroethene	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
1,2,3-Trichloropropane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
1,2-Dibromo-3-chloropropane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
1,2-Dibromoethane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
1,2-Dichloroethane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
1,2-Dichloropropane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
1,4-Dioxane	ND(0.11) J [ND(0.11) J]	ND(0.11) J	NA	ND(0.11) J	NA	ND(0.11) J
2-Butanone	ND(0.011) [ND(0.011)]	ND(0.011)	NA	ND(0.011)	NA	ND(0.011)
2-Chloro-1,3-butadiene	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
2-Chloroethylvinylether	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
2-Hexanone	ND(0.011) [ND(0.011)]	ND(0.011)	NA	ND(0.011)	NA	ND(0.011)
3-Chloropropene	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
4-Methyl-2-pentanone	ND(0.011) [ND(0.011)]	ND(0.011)	NA	ND(0.011)	NA	ND(0.011)
Acetone	ND(0.022) [ND(0.022)]	ND(0.022)	NA	ND(0.022)	NA	ND(0.022)
Acetonitrile	ND(0.11) J [ND(0.11) J]	ND(0.11) J	NA	ND(0.11) J	NA	ND(0.11) J
Acrolein	ND(0.11) J [ND(0.11) J]	ND(0.11) J	NA	ND(0.11) J	NA	ND(0.11) J
Acrylonitrile	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Benzene	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Bromodichloromethane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Bromoform	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Bromomethane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Carbon Disulfide	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Carbon Tetrachloride	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Chlorobenzene	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Chloroethane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Chloroform	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Chloromethane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
cis-1,3-Dichloropropene	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Dibromochloromethane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Dibromomethane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Dichlorodifluoromethane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Ethyl Methacrylate	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Ethylbenzene	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Iodomethane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Isobutanol	ND(0.11) J [ND(0.11) J]	ND(0.11) J	NA	ND(0.11) J	NA	ND(0.11) J
Methacrylonitrile	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Methyl Methacrylate	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Methylene Chloride	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Propionitrile	ND(0.011) J [ND(0.011) J]	ND(0.011) J	NA	ND(0.011) J	NA	ND(0.011) J
Styrene	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Tetrachloroethene	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Toluene	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
trans-1,2-Dichloroethene	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
trans-1,3-Dichloropropene	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
trans-1,4-Dichloro-2-butene	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Trichloroethene	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Trichlorofluoromethane	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Vinyl Acetate	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Vinyl Chloride	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
Xylenes (total)	ND(0.0056) [ND(0.0056)]	ND(0.0055)	NA	ND(0.0055)	NA	ND(0.0056)
<b>Semivolatile Organics</b>						
1,2,4,5-Tetrachlorobenzene	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
1,2,4-Trichlorobenzene	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
1,2-Dichlorobenzene	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
1,2-Diphenylhydrazine	ND(0.37) J	ND(0.37) J	ND(0.37) J	NA	NA	NA
1,3,5-Trinitrobenzene	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
1,3-Dichlorobenzene	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth (Feet): Parameter Date Collected:	Recreational Area R3A					
	RAA15-E15N 0-1	RAA15-E15N 1-3	RAA15-E15N 3-6	RAA15-E15N 4-6	RAA15-E15N 6-10	RAA15-E15N 8-10
	05/04/04	05/04/04	05/04/04	05/04/04	05/04/04	05/04/04
<b>Semivolatile Organics (continued)</b>						
1,3-Dinitrobenzene	ND(0.75) J	ND(0.74) J	ND(0.74) J	NA	NA	NA
1,4-Dichlorobenzene	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
1,4-Naphthoquinone	ND(0.75) J	ND(0.74) J	ND(0.74) J	NA	NA	NA
1-Naphthylamine	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
2,3,4,6-Tetrachlorophenol	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
2,4,5-Trichlorophenol	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
2,4,6-Trichlorophenol	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
2,4-Dichlorophenol	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
2,4-Dimethylphenol	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
2,4-Dinitrophenol	ND(1.9)	ND(1.9)	ND(1.9)	NA	NA	NA
2,4-Dinitrotoluene	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
2,6-Dichlorophenol	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
2,6-Dinitrotoluene	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
2-Acetylaminofluorene	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
2-Chloronaphthalene	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
2-Chlorophenol	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
2-Methylnaphthalene	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
2-Methylphenol	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
2-Naphthylamine	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
2-Nitroaniline	ND(1.9) J	ND(1.9) J	ND(1.9) J	NA	NA	NA
2-Nitrophenol	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
2-Picoline	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
3&4-Methylphenol	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
3,3'-Dichlorobenzidine	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
3,3'-Dimethylbenzidine	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
3-Methylcholanthrene	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
3-Nitroaniline	ND(1.9)	ND(1.9)	ND(1.9)	NA	NA	NA
4,6-Dinitro-2-methylphenol	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
4-Aminobiphenyl	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
4-Bromophenyl-phenylether	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
4-Chloro-3-Methylphenol	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
4-Chloroaniline	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
4-Chlorobenzilate	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
4-Chlorophenyl-phenylether	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
4-Nitroaniline	ND(1.9) J	ND(1.9) J	ND(1.9) J	NA	NA	NA
4-Nitrophenol	ND(1.9) J	ND(1.9) J	ND(1.9) J	NA	NA	NA
4-Nitroquinoline-1-oxide	ND(0.75) J	ND(0.74) J	ND(0.74) J	NA	NA	NA
4-Phenylenediamine	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
5-Nitro-o-toluidine	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
7,12-Dimethylbenz(a)anthracene	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
a,a'-Dimethylphenethylamine	ND(0.75) J	ND(0.74) J	ND(0.74) J	NA	NA	NA
Acenaphthene	0.15 J	0.43	0.20 J	NA	NA	NA
Acenaphthylene	0.10 J	0.16 J	ND(0.37)	NA	NA	NA
Acetophenone	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Aniline	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Anthracene	0.31 J	1.3	0.39	NA	NA	NA
Aramite	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
Benzidine	ND(0.75) J	ND(0.74) J	ND(0.74) J	NA	NA	NA
Benzo(a)anthracene	0.85	3.4	0.65	NA	NA	NA
Benzo(a)pyrene	0.50	1.6	0.38	NA	NA	NA
Benzo(b)fluoranthene	0.52	1.7	0.34 J	NA	NA	NA
Benzo(g,h,i)perylene	0.34 J	0.85	0.24 J	NA	NA	NA
Benzo(k)fluoranthene	0.50	1.6	0.36 J	NA	NA	NA
Benzyl Alcohol	ND(0.75) J	ND(0.74) J	ND(0.74) J	NA	NA	NA
bis(2-Chloroethoxy)methane	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
bis(2-Chloroethyl)ether	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
bis(2-Chloroisopropyl)ether	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ND(0.37)	ND(0.36)	ND(0.36)	NA	NA	NA
Butylbenzylphthalate	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Chrysene	0.88	3.1	0.65	NA	NA	NA
Diallate	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
Dibenzo(a,h)anthracene	0.10 J	0.29 J	ND(0.37)	NA	NA	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Recreational Area R3A					
	RAA15-E15N	RAA15-E15N	RAA15-E15N	RAA15-E15N	RAA15-E15N	RAA15-E15N
	0-1	1-3	3-6	4-6	6-10	8-10
Sample ID: Sample Depth(Feet): Date Collected:	05/04/04	05/04/04	05/04/04	05/04/04	05/04/04	05/04/04
<b>Semivolatile Organics (continued)</b>						
Dibenzofuran	ND(0.37)	0.27 J	0.13 J	NA	NA	NA
Diethylphthalate	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Dimethylphthalate	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Di-n-Butylphthalate	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Di-n-Octylphthalate	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Diphenylamine	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Ethyl Methanesulfonate	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Fluoranthene	2.1	9.2	1.6	NA	NA	NA
Fluorene	0.12 J	0.45	0.16 J	NA	NA	NA
Hexachlorobenzene	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Hexachlorobutadiene	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Hexachlorocyclopentadiene	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Hexachloroethane	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Hexachlorophene	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
Hexachloropropene	ND(0.37) J	ND(0.37) J	ND(0.37) J	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.30 J	0.78	0.19 J	NA	NA	NA
Isodrin	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Isophorone	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Isosafrole	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
Methapyrilene	ND(0.75) J	ND(0.74) J	ND(0.74) J	NA	NA	NA
Methyl Methanesulfonate	ND(0.37) J	ND(0.37) J	ND(0.37) J	NA	NA	NA
Naphthalene	ND(0.37)	0.27 J	0.12 J	NA	NA	NA
Nitrobenzene	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
N-Nitrosodiethylamine	ND(0.37) J	ND(0.37) J	ND(0.37) J	NA	NA	NA
N-Nitrosodimethylamine	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
N-Nitroso-di-n-butylamine	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
N-Nitroso-di-n-propylamine	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
N-Nitrosodiphenylamine	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
N-Nitrosomethylethylamine	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
N-Nitrosomorpholine	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
N-Nitrosopiperidine	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
N-Nitrosopyrrolidine	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
o,o,o-Triethylphosphorothioate	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
o-Toluidine	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
p-Dimethylaminoazobenzene	ND(0.75)	ND(0.74)	ND(0.74)	NA	NA	NA
Pentachlorobenzene	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Pentachloroethane	ND(0.37) J	ND(0.37) J	ND(0.37) J	NA	NA	NA
Pentachloronitrobenzene	ND(0.75) J	ND(0.74) J	ND(0.74) J	NA	NA	NA
Pentachlorophenol	ND(1.9)	ND(1.9)	ND(1.9)	NA	NA	NA
Phenacetin	ND(0.75) J	ND(0.74) J	ND(0.74) J	NA	NA	NA
Phenanthrene	1.3	4.7	1.4	NA	NA	NA
Phenol	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Pronamide	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Pyrene	1.7	6.8	1.4	NA	NA	NA
Pyridine	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Safrole	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
Thionazin	ND(0.37)	ND(0.37)	ND(0.37)	NA	NA	NA
<b>Furans</b>						
2,3,7,8-TCDF	0.0000087 Y	0.0000071 Y	0.0000095 Y	NA	0.0000035 Y	NA
TCDFs (total)	0.00016 Q	0.000081 QI	0.00011 QI	NA	0.000033 QI	NA
1,2,3,7,8-PeCDF	0.0000079 Q	0.0000036 Q	0.0000048	NA	0.0000018 J	NA
2,3,4,7,8-PeCDF	0.000030 Q	0.000017 Q	0.000013	NA	0.0000038	NA
PeCDFs (total)	0.00021 QI	0.00010 QI	0.00010 QI	NA	0.000036 QI	NA
1,2,3,4,7,8-HxCDF	0.000026	0.000012	0.000015	NA	0.0000021 J	NA
1,2,3,6,7,8-HxCDF	0.000015	0.0000070	0.0000068	NA	0.0000014 J	NA
1,2,3,7,8,9-HxCDF	0.000044 Q	0.000020 JQ	0.0000049 Q	NA	0.0000068 JQ	NA
2,3,4,6,7,8-HxCDF	0.000027	0.000018	0.000011	NA	0.0000020 J	NA
HxCDFs (total)	0.00047 QI	0.00024 Q	0.00019 Q	NA	0.000029 Q	NA
1,2,3,4,6,7,8-HpCDF	0.000046	0.000027	0.000033	NA	0.0000073	NA
1,2,3,4,7,8,9-HpCDF	0.0000091	0.0000048	0.0000051	NA	0.0000052 J	NA
HpCDFs (total)	0.00010	0.000072	0.000084	NA	0.000014	NA
OCDF	0.000042	0.000026	0.000042	NA	0.0000067	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Date Collected:	Recreational Area R3A					
	RAA15-E15N 0-1	RAA15-E15N 1-3	RAA15-E15N 3-6	RAA15-E15N 4-6	RAA15-E15N 6-10	RAA15-E15N 8-10
	05/04/04	05/04/04	05/04/04	05/04/04	05/04/04	05/04/04
<b>Dioxins</b>						
2,3,7,8-TCDD	0.0000039 J	0.0000034 JQ	0.0000039 J	NA	ND(0.00000099) X	NA
TCDDs (total)	0.0000038 Q	0.0000014 Q	0.0000091	NA	0.0000022	NA
1,2,3,7,8-PeCDD	ND(0.0000083) X	0.0000028 Q	0.0000044	NA	0.0000044 J	NA
PeCDDs (total)	0.000010 Q	0.000017 Q	0.000071 Q	NA	0.0000045 Q	NA
1,2,3,4,7,8-HxCDD	0.0000015 J	0.0000018 J	0.0000050	NA	0.0000030 J	NA
1,2,3,6,7,8-HxCDD	0.0000021 J	0.0000067	0.000015	NA	0.0000011 J	NA
1,2,3,7,8,9-HxCDD	0.0000019 J	0.0000042	0.0000097	NA	0.0000060 J	NA
HxCDDs (total)	0.000021	0.000059 Q	0.00015	NA	0.000011	NA
1,2,3,4,6,7,8-HpCDD	0.000017	0.000053	0.000055	NA	0.000085	NA
HpCDDs (total)	0.000034	0.00011	0.00015	NA	0.000017	NA
OCDD	0.00015	0.00032	0.00030	NA	0.000079	NA
Total TEQs (WHO TEFs)	0.000026	0.000019	0.000020	NA	0.000038	NA
<b>Inorganics</b>						
Antimony	1.90 J	1.20 J	1.60 J	NA	NA	NA
Arsenic	4.50	4.40	7.70	NA	NA	NA
Barium	47.0	42.0	140	NA	NA	NA
Beryllium	0.200 B	0.210 B	0.210 B	NA	NA	NA
Cadmium	0.480 B	0.540	1.00	NA	NA	NA
Chromium	6.90	6.80	10.0	NA	NA	NA
Cobalt	4.40 B	4.70 B	6.20	NA	NA	NA
Copper	18.0	52.0	96.0	NA	NA	NA
Cyanide	0.0430 B	0.0800 B	0.100 B	NA	NA	NA
Lead	23.0	27.0	200	NA	NA	NA
Mercury	0.0360 B	0.260	0.260	NA	NA	NA
Nickel	7.70	10.0	14.0	NA	NA	NA
Selenium	0.670 J	ND(1.00) J	ND(1.00) J	NA	NA	NA
Silver	ND(1.00)	ND(1.00)	ND(1.00)	NA	NA	NA
Sulfide	970	7.00	16.0	NA	NA	NA
Thallium	ND(1.10) J	ND(1.10) J	ND(1.10) J	NA	NA	NA
Tin	ND(10)	ND(10)	ND(10)	NA	NA	NA
Vanadium	7.90	9.20	11.0	NA	NA	NA
Zinc	35.0	49.0	180	NA	NA	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Recreational Area R3A					
	RAA15-E15W 0-1	RAA15-E15W 1-3	RAA15-E15W 3-6	RAA15-E15W 4-6	RAA15-E15W 10-12	RAA15-E15W 10-15
	05/03/04	05/03/04	05/03/04	05/03/04	05/03/04	05/03/04
<b>Parcel ID:</b>						
<b>Sample ID:</b>						
<b>Sample Depth(Feet):</b>						
<b>Date Collected:</b>						
<b>Volatile Organics</b>						
1,1,1,2-Tetrachloroethane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
1,1,1-Trichloroethane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
1,1,2,2-Tetrachloroethane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
1,1,2-Trichloroethane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
1,1-Dichloroethane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
1,1-Dichloroethene	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
1,2,3-Trichloropropane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
1,2-Dibromo-3-chloropropane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
1,2-Dibromoethane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
1,2-Dichloroethane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
1,2-Dichloropropane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
1,4-Dioxane	ND(0.12) J	NA	NA	ND(0.14) J	ND(0.11) J	NA
2-Butanone	ND(0.012)	ND(0.011)	NA	ND(0.011)	ND(0.014)	NA
2-Chloro-1,3-butadiene	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
2-Chloroethylvinylether	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
2-Hexanone	ND(0.012)	ND(0.011)	NA	ND(0.011)	ND(0.014)	NA
3-Chloropropene	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
4-Methyl-2-pentanone	ND(0.012)	ND(0.011)	NA	ND(0.011)	ND(0.014)	NA
Acetone	ND(0.023)	ND(0.022)	NA	ND(0.022)	ND(0.027)	NA
Acetonitrile	ND(0.12) J	NA	NA	ND(0.14) J	ND(0.11) J	NA
Acrolein	ND(0.12) J	NA	NA	ND(0.14) J	ND(0.11) J	NA
Acrylonitrile	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Benzene	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Bromodichloromethane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Bromoform	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Bromomethane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Carbon Disulfide	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Carbon Tetrachloride	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Chlorobenzene	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Chloroethane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Chloroform	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Chloromethane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
cis-1,3-Dichloropropene	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Dibromochloromethane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Dibromomethane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Dichlorodifluoromethane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Ethyl Methacrylate	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Ethylbenzene	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Iodomethane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Isobutanol	ND(0.12) J	NA	NA	ND(0.14) J	ND(0.11) J	NA
Methacrylonitrile	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Methyl Methacrylate	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Methylene Chloride	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Propionitrile	ND(0.012) J	NA	NA	ND(0.014) J	ND(0.011) J	NA
Styrene	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Tetrachloroethene	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Toluene	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
trans-1,2-Dichloroethene	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
trans-1,3-Dichloropropene	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
trans-1,4-Dichloro-2-butene	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Trichloroethene	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Trichlorofluoromethane	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Vinyl Acetate	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Vinyl Chloride	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
Xylenes (total)	ND(0.0058)	ND(0.0056)	NA	ND(0.0056)	ND(0.0068)	NA
<b>Semivolatile Organics</b>						
1,2,4,5-Tetrachlorobenzene	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
1,2,4-Trichlorobenzene	ND(0.39)	ND(0.37) J	ND(0.50)	NA	NA	ND(0.43)
1,2-Dichlorobenzene	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
1,2-Diphenylhydrazine	ND(0.39) J	ND(0.37) J	ND(0.010) J	NA	NA	ND(0.43) J
1,3,5-Trinitrobenzene	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
1,3-Dichlorobenzene	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Recreational Area R3A					
	RAA15-E15W 0-1	RAA15-E15W 1-3	RAA15-E15W 3-6	RAA15-E15W 4-6	RAA15-E15W 10-12	RAA15-E15W 10-15
Sample ID: Sample Depth(Feet): Date Collected:	05/03/04	05/03/04	05/03/04	05/03/04	05/03/04	05/03/04
<b>Semivolatle Organics (continued)</b>						
1,3-Dinitrobenzene	ND(0.78) J	ND(0.75) J	ND(0.010) J	NA	NA	ND(0.87) J
1,4-Dichlorobenzene	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
1,4-Naphthoquinone	ND(0.78) J	ND(0.75) J	ND(0.010) J	NA	NA	ND(0.87) J
1-Naphthylamine	ND(0.78)	ND(0.75)	ND(0.78)	NA	NA	ND(0.87)
2,3,4,6-Tetrachlorophenol	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
2,4,5-Trichlorophenol	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
2,4,6-Trichlorophenol	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
2,4-Dichlorophenol	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
2,4-Dimethylphenol	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
2,4-Dinitrophenol	ND(2.0)	ND(1.9)	ND(2.5)	NA	NA	ND(2.2)
2,4-Dinitrotoluene	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
2,6-Dichlorophenol	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
2,6-Dinitrotoluene	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
2-Acetylaminofluorene	ND(0.78)	ND(0.75)	ND(0.78)	NA	NA	ND(0.87)
2-Chloronaphthalene	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
2-Chlorophenol	ND(0.39)	ND(0.37) J	ND(0.50)	NA	NA	ND(0.43)
2-Methylnaphthalene	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
2-Methylphenol	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
2-Naphthylamine	ND(0.78)	ND(0.75)	ND(0.78)	NA	NA	ND(0.87)
2-Nitroaniline	ND(2.0) J	ND(1.9) J	ND(0.050) J	NA	NA	ND(2.2) J
2-Nitrophenol	ND(0.78)	ND(0.75)	ND(0.78)	NA	NA	ND(0.87)
2-Picoline	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
3&4-Methylphenol	ND(0.78)	ND(0.75)	ND(0.78)	NA	NA	ND(0.87)
3,3'-Dichlorobenzidine	ND(0.78)	ND(0.75)	ND(1.0)	NA	NA	ND(0.87)
3,3'-Dimethylbenzidine	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
3-Methylcholanthrene	ND(0.78)	ND(0.75)	ND(0.78)	NA	NA	ND(0.87)
3-Nitroaniline	ND(2.0)	ND(1.9)	ND(2.5)	NA	NA	ND(2.2)
4,6-Dinitro-2-methylphenol	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
4-Aminobiphenyl	ND(0.78)	ND(0.75)	ND(0.78)	NA	NA	ND(0.87)
4-Bromophenyl-phenylether	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
4-Chloro-3-Methylphenol	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
4-Chloroaniline	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
4-Chlorobenzilate	ND(0.78)	ND(0.75)	ND(0.78)	NA	NA	ND(0.87)
4-Chlorophenyl-phenylether	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
4-Nitroaniline	ND(2.0) J	ND(1.9) J	ND(0.050) J	NA	NA	ND(2.2) J
4-Nitrophenol	ND(2.0) J	ND(1.9) J	ND(0.050) J	NA	NA	ND(2.2) J
4-Nitroquinoline-1-oxide	ND(0.78) J	ND(0.75) J	ND(0.010) J	NA	NA	ND(0.87) J
4-Phenylenediamine	ND(0.78)	ND(0.75)	ND(0.78)	NA	NA	ND(0.87)
5-Nitro-o-toluidine	ND(0.78)	ND(0.75)	ND(0.78)	NA	NA	ND(0.87)
7,12-Dimethylbenz(a)anthracene	ND(0.78)	ND(0.75)	ND(0.78)	NA	NA	ND(0.87)
a,a'-Dimethylphenethylamine	ND(0.78) J	ND(0.75) J	ND(0.010) J	NA	NA	ND(0.87) J
Acenaphthene	0.12 J	0.12 J	ND(0.50)	NA	NA	ND(0.43)
Acenaphthylene	0.085 J	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Acetophenone	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Aniline	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Anthracene	0.39	0.40	0.28 J	NA	NA	ND(0.43)
Aramite	ND(0.78)	ND(0.75)	ND(0.78)	NA	NA	ND(0.87)
Benzidine	ND(0.78) J	ND(0.75) J	ND(0.020) J	NA	NA	ND(0.87) J
Benzo(a)anthracene	1.0	0.77	0.84	NA	NA	ND(0.43)
Benzo(a)pyrene	0.62	0.36 J	0.43 J	NA	NA	ND(0.43)
Benzo(b)fluoranthene	0.65	0.36 J	0.38 J	NA	NA	ND(0.43)
Benzo(g,h,i)perylene	0.36 J	0.21 J	0.21 J	NA	NA	ND(0.43)
Benzo(k)fluoranthene	0.67	0.38	0.41 J	NA	NA	ND(0.43)
Benzyl Alcohol	ND(0.78) J	ND(0.75) J	ND(0.020) J	NA	NA	ND(0.87) J
bis(2-Chloroethoxy)methane	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
bis(2-Chloroethyl)ether	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
bis(2-Chloroisopropyl)ether	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
bis(2-Ethylhexyl)phthalate	ND(0.38)	ND(0.37)	ND(0.38)	NA	NA	ND(0.43)
Butylbenzylphthalate	ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Chrysene	1.0	0.77	0.83	NA	NA	ND(0.43)
Diallate	ND(0.78)	ND(0.75)	ND(0.78)	NA	NA	ND(0.87)
Dibenzo(a,h)anthracene	0.13 J	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)

**TABLE A-4**  
**PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
 (Results are presented in dry weight parts per million, ppm)

Parameter	Parcel ID: Sample ID: Sample Depth (Feet): Date Collected:	Recreational Area R3A					
		RAA15-E15W 0-1 05/03/04	RAA15-E15W 1-3 05/03/04	RAA15-E15W 3-6 05/03/04	RAA15-E15W 4-6 05/03/04	RAA15-E15W 10-12 05/03/04	RAA15-E15W 10-15 05/03/04
<b>Semivolatle Organics (continued)</b>							
Dibenzofuran		0.081 J	0.074 J	ND(0.50)	NA	NA	ND(0.43)
Diethylphthalate		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Dimethylphthalate		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Di-n-Butylphthalate		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Di-n-Octylphthalate		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Diphenylamine		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Ethyl Methanesulfonate		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Fluoranthene		2.6	2.0	2.1	NA	NA	ND(0.43)
Fluorene		0.13 J	0.16 J	ND(0.50)	NA	NA	ND(0.43)
Hexachlorobenzene		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Hexachlorobutadiene		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Hexachlorocyclopentadiene		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Hexachloroethane		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Hexachlorophene		ND(0.78)	ND(0.75)	ND(1.0)	NA	NA	ND(0.87)
Hexachloropropene		ND(0.39) J	ND(0.37) J	ND(0.010) J	NA	NA	ND(0.43) J
Indeno(1,2,3-cd)pyrene		0.31 J	0.19 J	0.20 J	NA	NA	ND(0.43)
Isodrin		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Isophorone		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Isosafrole		ND(0.78)	ND(0.75)	ND(0.78)	NA	NA	ND(0.87)
Methapyrene		ND(0.78) J	ND(0.75) J	ND(0.010) J	NA	NA	ND(0.87) J
Methyl Methanesulfonate		ND(0.39) J	ND(0.37) J	ND(0.010) J	NA	NA	ND(0.43) J
Naphthalene		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Nitrobenzene		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
N-Nitrosodiethylamine		ND(0.39) J	ND(0.37) J	ND(0.010) J	NA	NA	ND(0.43) J
N-Nitrosodimethylamine		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
N-Nitroso-di-n-butylamine		ND(0.78)	ND(0.75)	ND(0.78)	NA	NA	ND(0.87)
N-Nitroso-di-n-propylamine		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
N-Nitrosodiphenylamine		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
N-Nitrosomethylethylamine		ND(0.78)	ND(0.75)	ND(0.78)	NA	NA	ND(0.87)
N-Nitrosomorpholine		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
N-Nitrosopiperidine		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
N-Nitrosopyrrolidine		ND(0.78)	ND(0.75)	ND(0.78)	NA	NA	ND(0.87)
o,o,o-Triethylphosphorothioate		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
o-Toluidine		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
p-Dimethylaminoazobenzene		ND(0.78)	ND(0.75)	ND(0.78)	NA	NA	ND(0.87)
Pentachlorobenzene		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Pentachloroethane		ND(0.39) J	ND(0.37) J	ND(0.010) J	NA	NA	ND(0.43) J
Pentachloronitrobenzene		ND(0.78) J	ND(0.75) J	ND(0.010) J	NA	NA	ND(0.87) J
Pentachlorophenol		ND(2.0)	ND(1.9)	ND(2.5)	NA	NA	ND(2.2)
Phenacetin		ND(0.78) J	ND(0.75) J	ND(0.010) J	NA	NA	ND(0.87) J
Phenanthrene		1.3	1.4	0.78	NA	NA	ND(0.43)
Phenol		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Pronamide		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Pyrene		2.2	1.6 J	1.7	NA	NA	0.39 J
Pyridine		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Safrole		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
Thionazin		ND(0.39)	ND(0.37)	ND(0.50)	NA	NA	ND(0.43)
<b>Furans</b>							
2,3,7,8-TCDF		0.000012 Y	0.0000067 Y	0.0000053 Y	NA	NA	0.0000040 J
TCDFs (total)		0.00018 Q	0.000064 Q	0.000043 Q	NA	NA	0.0000040
1,2,3,7,8-PeCDF		0.0000081	0.0000028 Q	0.0000026 Q	NA	NA	ND(0.0000026)
2,3,4,7,8-PeCDF		0.000027	0.0000063 Q	0.0000037 Q	NA	NA	ND(0.0000024)
PeCDFs (total)		0.00019 Q	0.000025 Q	0.000017 Q	NA	NA	ND(0.0000019)
1,2,3,4,7,8-HxCDF		0.000020	0.0000043	0.0000033	NA	NA	0.0000038 J
1,2,3,6,7,8-HxCDF		0.000098	0.0000027	0.0000016 J	NA	NA	ND(0.0000024)
1,2,3,7,8,9-HxCDF		0.000025 Q	0.0000039 JQ	0.0000041 JQ	NA	NA	ND(0.0000029)
2,3,4,6,7,8-HxCDF		0.000019	0.0000049	0.0000026	NA	NA	ND(0.0000024)
HxCDFs (total)		0.00036 Q	0.000075 Q	0.000042 Q	NA	NA	0.0000065
1,2,3,4,6,7,8-HpCDF		0.000062	0.000023	0.000016	NA	NA	ND(0.0000024) X
1,2,3,4,7,8,9-HpCDF		0.000012	0.0000018 J	0.0000012 J	NA	NA	ND(0.0000024)
HpCDFs (total)		0.00014	0.000067	0.000054	NA	NA	0.0000017
OCDF		0.000077	0.000030	0.000028	NA	NA	ND(0.0000049)

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Recreational Area R3A					
	RAA15-E15W 0-1	RAA15-E15W 1-3	RAA15-E15W 3-6	RAA15-E15W 4-6	RAA15-E15W 10-12	RAA15-E15W 10-15
	Sample ID: Sample Depth(Feet): Date Collected:	05/03/04	05/03/04	05/03/04	05/03/04	05/03/04
<b>Dioxins</b>						
2,3,7,8-TCDD	0.00000027 J	0.00000016 JQ	ND(0.00000014)	NA	NA	ND(0.00000017)
TCDDs (total)	0.0000030 Q	0.0000017 Q	0.00000097 Q	NA	NA	ND(0.00000023)
1,2,3,7,8-PeCDD	0.0000013 J	0.00000069 JQ	0.00000038 JQ	NA	NA	ND(0.00000024)
PeCDDs (total)	0.0000059 Q	0.0000025 Q	0.0000028 Q	NA	NA	ND(0.00000038)
1,2,3,4,7,8-HxCDD	0.0000010 J	0.00000044 J	0.00000041 J	NA	NA	ND(0.00000024)
1,2,3,6,7,8-HxCDD	0.0000022 J	0.00000045	0.00000026	NA	NA	ND(0.00000024)
1,2,3,7,8,9-HxCDD	0.0000020 J	0.00000014 JQ	0.00000010 J	NA	NA	ND(0.00000024)
HxCDDs (total)	0.000017	0.000034 Q	0.000012	NA	NA	ND(0.00000030)
1,2,3,4,6,7,8-HpCDD	0.000032	0.000049	0.000069	NA	NA	0.00000039 J
HpCDDs (total)	0.000062	0.00010	0.00013	NA	NA	0.00000070
OCDD	0.00030	0.00039	0.0011	NA	NA	ND(0.0000017)
Total TEQs (WHO TEFs)	0.000023	0.0000075	0.0000051	NA	NA	0.00000043
<b>Inorganics</b>						
Antimony	ND(6.00)	ND(6.00)	2.00 B	NA	NA	ND(6.00)
Arsenic	5.10	5.20	5.60	NA	NA	2.60
Barium	47.0	76.0	77.0	NA	NA	36.0
Beryllium	0.160 B	0.250 B	0.230 B	NA	NA	0.400 B
Cadmium	0.680	0.510	0.590	NA	NA	0.550
Chromium	8.10	5.80	8.70	NA	NA	15.0
Cobalt	5.60	7.10	8.30	NA	NA	7.00
Copper	26.0	21.0	22.0	NA	NA	14.0
Cyanide	0.150	0.100 B	0.110 B	NA	NA	0.0420 B
Lead	120	200	140	NA	NA	10.0
Mercury	0.270	0.350	0.150	NA	NA	0.250
Nickel	11.0	14.0	11.0	NA	NA	11.0
Selenium	0.890 J	ND(1.00) J	ND(1.00) J	NA	NA	0.920 J
Silver	ND(1.00)	ND(1.00)	0.210 B	NA	NA	ND(1.00)
Sulfide	410	7.20	7.40	NA	NA	8.30
Thallium	ND(1.20) J	ND(1.10) J	ND(1.20) J	NA	NA	ND(1.30) J
Tin	ND(10)	ND(10)	ND(10)	NA	NA	ND(10)
Vanadium	7.60	8.00	7.60	NA	NA	8.70
Zinc	67.0	91.0	99.0	NA	NA	45.0



**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	Recreational Area R3B					
	RAA15-B18	RAA15-C18	RAA15-C18	RAA15-C18	RAA15-C18	RAA15-C18
	0-1 02/25/03	1-3 02/26/03	3-6 02/26/03	4-6 02/26/03	6-10 02/26/03	8-10 02/26/03
<b>Volatile Organics</b>						
1,1,1,2-Tetrachloroethane	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
1,1,1-Trichloroethane	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
1,1,2,2-Tetrachloroethane	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
1,1,2-Trichloroethane	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
1,1-Dichloroethane	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
1,1-Dichloroethene	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
1,2,3-Trichloropropane	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
1,2-Dibromo-3-chloropropane	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
1,2-Dibromoethane	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
1,2-Dichloroethane	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
1,2-Dichloropropane	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
1,4-Dioxane	ND(1.2) J	ND(0.97) J	NA	ND(1.3) J	NA	ND(1.3) J
2-Butanone	ND(0.0059) J	ND(0.0049) J	NA	ND(0.0063) J	NA	ND(0.0063) J
2-Chloro-1,3-butadiene	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
2-Chloroethylvinylether	ND(0.012) J	ND(0.0097) J	NA	ND(0.013) J	NA	ND(0.013) J
2-Hexanone	ND(0.024) J	ND(0.019) J	NA	ND(0.025) J	NA	ND(0.025) J
3-Chloropropene	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
4-Methyl-2-pentanone	ND(0.024)	ND(0.019)	NA	ND(0.025)	NA	ND(0.025)
Acetone	ND(0.024) J	ND(0.019) J	NA	ND(0.025) J	NA	ND(0.025) J
Acetonitrile	ND(0.12)	ND(0.097) J	NA	ND(0.13) J	NA	ND(0.13) J
Acrolein	ND(0.12) J	ND(0.097) J	NA	ND(0.13) J	NA	ND(0.13) J
Acrylonitrile	ND(0.12)	ND(0.097)	NA	ND(0.13)	NA	ND(0.13)
Benzene	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Bromodichloromethane	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Bromoform	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Bromomethane	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Carbon Disulfide	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Carbon Tetrachloride	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Chlorobenzene	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Chloroethane	ND(0.012)	ND(0.0097)	NA	ND(0.013)	NA	ND(0.013)
Chloroform	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Chloromethane	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
cis-1,3-Dichloropropene	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Dibromochloromethane	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Dibromomethane	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Dichlorodifluoromethane	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Ethyl Methacrylate	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Ethylbenzene	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Iodomethane	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Isobutanol	ND(0.24) J	ND(0.19) J	NA	ND(0.25) J	NA	ND(0.25) J
Methacrylonitrile	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Methyl Methacrylate	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Methylene Chloride	ND(0.0059)	0.0027 J	NA	0.0023 J	NA	0.0032 J
Propionitrile	ND(0.012)	ND(0.0097)	NA	ND(0.013)	NA	ND(0.013)
Styrene	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Tetrachloroethene	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Toluene	ND(0.0059)	0.0014 J	NA	0.0011 J	NA	0.0025 J
trans-1,2-Dichloroethene	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
trans-1,3-Dichloropropene	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
trans-1,4-Dichloro-2-butene	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Trichloroethene	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Trichlorofluoromethane	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Vinyl Acetate	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
Vinyl Chloride	ND(0.012)	ND(0.0097)	NA	ND(0.013)	NA	ND(0.013)
Xylenes (total)	ND(0.0059)	ND(0.0049)	NA	ND(0.0063)	NA	ND(0.0063)
<b>Semivolatile Organics</b>						
1,2,4,5-Tetrachlorobenzene	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
1,2,4-Trichlorobenzene	ND(1.7)	0.12 J	ND(0.44)	NA	ND(0.45)	NA
1,2-Dichlorobenzene	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
1,2-Diphenylhydrazine	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
1,3,5-Trinitrobenzene	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
1,3-Dichlorobenzene	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Recreational Area R3B					
	RAA15-B18	RAA15-C18	RAA15-C18	RAA15-C18	RAA15-C18	RAA15-C18
	0-1	1-3	3-6	4-6	6-10	8-10
Sample ID: Sample Depth(Feet): Date Collected:	02/25/03	02/26/03	02/26/03	02/26/03	02/26/03	02/26/03
<b>Semivolatiles Organics (continued)</b>						
1,3-Dinitrobenzene	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
1,4-Dichlorobenzene	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
1,4-Naphthoquinone	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
1-Naphthylamine	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
2,3,4,6-Tetrachlorophenol	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
2,4,5-Trichlorophenol	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
2,4,6-Trichlorophenol	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
2,4-Dichlorophenol	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
2,4-Dimethylphenol	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
2,4-Dinitrophenol	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
2,4-Dinitrotoluene	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
2,6-Dichlorophenol	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
2,6-Dinitrotoluene	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
2-Acetylaminofluorene	ND(3.4)	ND(0.78)	ND(0.87)	NA	ND(0.91)	NA
2-Chloronaphthalene	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
2-Chlorophenol	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
2-Methylnaphthalene	0.23 J	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
2-Methylphenol	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
2-Naphthylamine	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
2-Nitroaniline	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
2-Nitrophenol	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
2-Picoline	ND(3.4)	ND(0.78)	ND(0.87)	NA	ND(0.91)	NA
3&4-Methylphenol	ND(3.4)	ND(0.78)	ND(0.87)	NA	ND(0.91)	NA
3,3'-Dichlorobenzidine	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
3,3'-Dimethylbenzidine	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
3-Methylcholanthrene	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
3-Nitroaniline	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
4,6-Dinitro-2-methylphenol	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
4-Aminobiphenyl	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
4-Bromophenyl-phenylether	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
4-Chloro-3-Methylphenol	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
4-Chloroaniline	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
4-Chlorobenzilate	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
4-Chlorophenyl-phenylether	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
4-Nitroaniline	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
4-Nitrophenol	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
4-Nitroquinoline-1-oxide	ND(17)	ND(3.9)	ND(4.4)	NA	ND(4.5)	NA
4-Phenylenediamine	ND(34)	ND(7.8)	ND(8.7)	NA	ND(9.1)	NA
5-Nitro-o-toluidine	ND(3.4)	ND(0.78)	ND(0.87)	NA	ND(0.91)	NA
7,12-Dimethylbenz(a)anthracene	ND(3.4)	ND(0.78)	ND(0.87)	NA	ND(0.91)	NA
a,a'-Dimethylphenethylamine	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
Acenaphthene	0.27 J	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Acenaphthylene	0.94 J	0.11 J	0.099 J	NA	ND(0.45)	NA
Acetophenone	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Aniline	1.4 J	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Anthracene	0.96 J	0.055 J	0.057 J	NA	ND(0.45)	NA
Aramite	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
Benzidine	ND(17)	ND(3.9)	ND(4.4)	NA	ND(4.5)	NA
Benzo(a)anthracene	2.6	0.20 J	0.20 J	NA	ND(0.45)	NA
Benzo(a)pyrene	2.9	0.27 J	0.25 J	NA	ND(0.45)	NA
Benzo(b)fluoranthene	3.0	0.27 J	0.27 J	NA	ND(0.45)	NA
Benzo(g,h,i)perylene	1.1 J	0.099 J	0.088 J	NA	ND(0.45)	NA
Benzo(k)fluoranthene	3.2	0.28 J	0.30 J	NA	ND(0.45)	NA
Benzyl Alcohol	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
bis(2-Chloroethoxy)methane	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
bis(2-Chloroethyl)ether	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
bis(2-Chloroisopropyl)ether	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
bis(2-Ethylhexyl)phthalate	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Butylbenzylphthalate	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Chrysene	3.1	0.26 J	0.27 J	NA	ND(0.45)	NA
Diallate	ND(3.4)	ND(0.78)	ND(0.87)	NA	ND(0.91)	NA
Dibenzo(a,h)anthracene	0.32 J	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID: Sample ID: Sample Depth(Feet): Parameter Date Collected:	Recreational Area R3B					
	RAA15-B18 0-1 02/25/03	RAA15-C18 1-3 02/26/03	RAA15-C18 3-6 02/26/03	RAA15-C18 4-6 02/26/03	RAA15-C18 6-10 02/26/03	RAA15-C18 8-10 02/26/03
<b>Semivolatile Organics (continued)</b>						
Dibenzofuran	0.20 J	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Diethylphthalate	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Dimethylphthalate	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Di-n-Butylphthalate	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Di-n-Octylphthalate	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Diphenylamine	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Ethyl Methanesulfonate	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Fluoranthene	6.6	0.46	0.52	NA	ND(0.45)	NA
Fluorene	0.38 J	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Hexachlorobenzene	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Hexachlorobutadiene	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Hexachlorocyclopentadiene	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
Hexachloroethane	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Hexachlorophene	ND(34) J	ND(7.9) J	ND(8.9) J	NA	ND(9.2) J	NA
Hexachloropropene	ND(17)	ND(3.9)	ND(4.4)	NA	ND(4.5)	NA
Indeno(1,2,3-cd)pyrene	1.2 J	0.11 J	0.11 J	NA	ND(0.45)	NA
Isodrin	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Isophorone	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Isosafrole	ND(3.4)	ND(0.78)	ND(0.87)	NA	ND(0.91)	NA
Methapyrilene	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
Methyl Methanesulfonate	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Naphthalene	0.38 J	ND(0.39)	0.028 J	NA	ND(0.45)	NA
Nitrobenzene	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
N-Nitrosodiethylamine	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
N-Nitrosodimethylamine	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
N-Nitroso-di-n-butylamine	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
N-Nitroso-di-n-propylamine	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
N-Nitrosodiphenylamine	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
N-Nitrosomethylethylamine	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
N-Nitrosomorpholine	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
N-Nitrosopiperidine	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
N-Nitrosopyrrolidine	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
o,o,o-Triethylphosphorothioate	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
o-Toluidine	ND(3.4)	ND(0.78)	ND(0.87)	NA	ND(0.91)	NA
p-Dimethylaminoazobenzene	ND(3.4)	ND(0.78)	ND(0.87)	NA	ND(0.91)	NA
Pentachlorobenzene	ND(1.7)	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Pentachloroethane	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
Pentachloronitrobenzene	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
Pentachlorophenol	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
Phenacetin	ND(3.4)	ND(0.78)	ND(0.87)	NA	ND(0.91)	NA
Phenanthrene	3.5	0.17 J	0.21 J	NA	ND(0.45)	NA
Phenol	0.33 J	ND(0.39)	ND(0.44)	NA	ND(0.45)	NA
Pronamide	ND(3.4)	ND(0.78)	ND(0.87)	NA	ND(0.91)	NA
Pyrene	4.7	0.34 J	0.38 J	NA	ND(0.45)	NA
Pyridine	ND(3.4)	ND(0.78)	ND(0.87)	NA	ND(0.91)	NA
Safrole	ND(3.4)	ND(0.78)	ND(0.87)	NA	ND(0.91)	NA
Thionazin	ND(8.2)	ND(1.9)	ND(2.1)	NA	ND(2.2)	NA
<b>Furans</b>						
2,3,7,8-TCDF	ND(0.000027) X	ND(0.000027) X	ND(0.000014) X	NA	ND(0.0000068)	NA
TCDFs (total)	ND(0.00026) X	ND(0.00020) X	ND(0.00010) X	NA	ND(0.0000068)	NA
1,2,3,7,8-PeCDF	0.000012 J	0.0000099 J	ND(0.0000051) X	NA	ND(0.00000034)	NA
2,3,4,7,8-PeCDF	0.000023 J	0.000012 J	ND(0.0000036) X	NA	ND(0.00000033)	NA
PeCDFs (total)	ND(0.00060) X	ND(0.00035) X	ND(0.000086) X	NA	ND(0.00000034)	NA
1,2,3,4,7,8-HxCDF	0.000041 J	0.000037	0.0000057 J	NA	ND(0.00000022)	NA
1,2,3,6,7,8-HxCDF	ND(0.000054) X	ND(0.000048) X	ND(0.000011) X	NA	ND(0.00000021)	NA
1,2,3,7,8,9-HxCDF	ND(0.0000014) X	ND(0.00000063)	ND(0.00000061)	NA	ND(0.00000026)	NA
2,3,4,6,7,8-HxCDF	0.000015 J	0.0000054 J	ND(0.0000015) X	NA	ND(0.00000024)	NA
HxCDFs (total)	ND(0.00051) X	ND(0.00029) X	ND(0.000072) X	NA	0.00000064 J	NA
1,2,3,4,6,7,8-HpCDF	0.000065	0.000084	0.000042 J	NA	0.00000082 J	NA
1,2,3,4,7,8,9-HpCDF	0.000018 J	0.000031	ND(0.0000020) XJ	NA	ND(0.00000038)	NA
HpCDFs (total)	ND(0.00020) X	0.00021 J	ND(0.000083) XJ	NA	ND(0.0000016) X	NA
OCDF	0.00012 J	0.00025 J	0.000039 J	NA	0.0000015 J	NA

**TABLE A-4  
PRE-DESIGN INVESTIGATION SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Recreational Area R3B					
	RAA15-B18	RAA15-C18	RAA15-C18	RAA15-C18	RAA15-C18	RAA15-C18
	0-1	1-3	3-6	4-6	6-10	8-10
Sample ID: Sample Depth(Feet): Date Collected:	0-1 02/25/03	1-3 02/26/03	3-6 02/26/03	4-6 02/26/03	6-10 02/26/03	8-10 02/26/03
<b>Dioxins</b>						
2,3,7,8-TCDD	ND(0.000014)	ND(0.000012)	ND(0.000016)	NA	ND(0.0000095)	NA
TCDDs (total)	ND(0.000022) X	ND(0.000012)	ND(0.000016)	NA	ND(0.0000095)	NA
1,2,3,7,8-PeCDD	ND(0.000023) X	ND(0.000013) X	ND(0.000012)	NA	ND(0.0000066)	NA
PeCDDs (total)	ND(0.000083) X	ND(0.000060) X	ND(0.000012)	NA	ND(0.0000066)	NA
1,2,3,4,7,8-HxCDD	ND(0.000024) X	ND(0.000021) X	ND(0.000012)	NA	ND(0.0000057)	NA
1,2,3,6,7,8-HxCDD	ND(0.000052) X	ND(0.000020) X	ND(0.000016) X	NA	ND(0.0000054)	NA
1,2,3,7,8,9-HxCDD	ND(0.000044) X	ND(0.000022) X	ND(0.000012)	NA	ND(0.0000056)	NA
HxCDDs (total)	ND(0.000061) X	ND(0.000022) X	ND(0.000087) X	NA	ND(0.0000056)	NA
1,2,3,4,6,7,8-HpCDD	0.00014	0.00030	0.00022 J	NA	ND(0.0000050)	NA
HpCDDs (total)	0.00053	0.00056 J	0.00037 J	NA	ND(0.0000050)	NA
OCDD	0.0011 J	0.00027	0.00026 J	NA	ND(0.0000058)	NA
Total TEQs (WHO TEFs)	0.000027	0.000018	0.000052	NA	0.0000011	NA
<b>Inorganics</b>						
Antimony	0.580 B	ND(7.10) J	ND(8.00) J	NA	ND(8.20) J	NA
Arsenic	4.50	5.30	5.20	NA	1.80	NA
Barium	38.1 J	75.0	66.4	NA	35.2	NA
Beryllium	0.550 B	0.600	0.720	NA	ND(0.590)	NA
Cadmium	0.290 B	ND(0.120)	ND(0.660)	NA	ND(0.690)	NA
Chromium	12.6 J	21.2	31.6	NA	10.2	NA
Cobalt	7.70	8.40	9.00	NA	6.80 B	NA
Copper	33.2 J	28.3	30.5	NA	11.2	NA
Cyanide	ND(0.310)	ND(0.590)	0.310 B	NA	0.270 B	NA
Lead	181 J	31.8	52.0	NA	5.60	NA
Mercury	0.110	0.220	0.270	NA	0.0260 B	NA
Nickel	14.2	16.8 J	16.7 J	NA	12.9 J	NA
Selenium	ND(0.640)	ND(0.590) J	0.390 B	NA	ND(0.690) J	NA
Silver	ND(1.30)	ND(1.20)	ND(1.30)	NA	ND(1.40)	NA
Sulfide	ND(12.7)	ND(11.8)	ND(13.3)	NA	ND(13.7)	NA
Thallium	ND(1.30)	ND(1.20)	ND(1.30)	NA	ND(1.40)	NA
Tin	ND(7.00)	ND(6.80)	ND(7.90)	NA	ND(5.50)	NA
Vanadium	20.7	17.6	16.4	NA	12.0	NA
Zinc	127	73.0	101	NA	53.7	NA

**Notes:**

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

**Data Qualifiers:**

Organics (volatiles, semivolatiles, dioxin/furans)

- D - Compound quantitated using a secondary dilution.
- E - Analyte exceeded calibration range.
- I - Polychlorinated Diphenyl Ether (PCDPE) Interference.
- J - Indicates that the associated numerical value is an estimated concentration.
- Q - Indicates the presence of quantitative interferences.
- R - Data was rejected due to a deficiency in the data generation process.
- X - Estimated maximum possible concentration.
- Y - 2,3,7,8-TCDF results have been confirmed on a DB-225 column.

Inorganics

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

**TABLE A-5  
EPA SOIL SAMPLING RESULTS FOR PCBs**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Location ID	Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221 -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
<b>Parcel K10-10-3</b>							
R34(B)B022	R34(B)B022.5(0-6)	0-0.5	8/12/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)
	R34(B)B022.5(6-12)	0.5-1	8/12/1998	NA	ND(0.50) [ND(0.10)]	ND(0.50) [0.28]	ND(0.50) [0.28]
R34(B)C022	R34(B)C022.5(0-6)	0-0.5	8/12/1998	NA	ND(0.60)	ND(0.60)	ND(0.60)
	R34(B)C022.5(6-12)	0.5-1	8/12/1998	NA	ND(0.60)	ND(0.60)	ND(0.60)
R34(B)D022	R34(B)D022.5(0-2)	0-2	9/3/1998	NA	ND(0.60)	ND(0.60)	ND(0.60)
	R34(B)D022.5(0-6)	0-0.5	8/12/1998	NA	0.30 J	ND(0.50)	0.30 J
	R34(B)D022.5(6-12)	0.5-1	8/12/1998	NA	ND(0.50)	0.40 J	0.40 J
	R34(B)D022.5(2-4)	2-4	9/3/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)
	R34(B)D022.5(4-6)	4-6	9/3/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)
	R34(B)D022.5(6-8)	6-8	9/3/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)
R34(B)E022	R34(B)E022.5(0-6)	0-0.5	8/12/1998	NA	ND(0.60) [ND(0.11)]	ND(0.60) [0.19]	ND(0.60) [0.19]
	R34(B)E022.5(6-12)	0.5-1	8/12/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)
R34(B)E045	R34(B)E045(0-2)	0-2	9/3/1998	NA	ND(0.60)	ND(0.60)	ND(0.60)
	R34(B)E045(0-6)	0-0.5	8/12/1998	NA	ND(0.70) [ND(0.60)]	ND(0.70) [ND(0.60)]	ND(0.70) [ND(0.60)]
	R34(B)E045(6-12)	0.5-1	8/12/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)
	R34(B)E045(2-4)	2-4	9/3/1998	NA	ND(0.60) [ND(0.60)]	ND(0.60) [ND(0.60)]	ND(0.60) [ND(0.60)]
	R34(B)E045(4-6)	4-6	9/3/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)
	R34(B)E045(6-8)	6-8	9/3/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)
R34(B)F045	R34(B)F045(0-6)	0-0.5	8/12/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)
	R34(B)F045(6-12)	0.5-1	8/12/1998	NA	ND(0.60)	ND(0.60)	ND(0.60)
<b>Recreational Area R1</b>							
RAA15-E1	OJ-BH000937-0-0060	6-10	3/10/2003	ND(0.019)	ND(0.019)	ND(0.019)	ND(0.019)
<b>Recreational Area R3A</b>							
RAA15-E15	OJ-BH000928-0-0060	6-10	2/26/2003	ND(0.019)	0.10	0.13	0.23
<b>Adjacent to Parcel K10-10-3</b>							
R34(B)A022	R34(B)A022.5(0-2)	0-2	9/3/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)
	R34(B)A022.5(0-6)	0-0.5	8/12/1998	NA	ND(0.60)	0.20 J	0.20 J
	R34(B)A022.5(6-12)	0.5-1	8/12/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)
	R34(B)A022.5(2-4)	2-4	9/3/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)
	R34(B)A022.5(4-6)	4-6	9/3/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)
	R34(B)A022.5(6-8)	6-8	9/3/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)
R34(B)A045	R34(B)A045(0-6)	0-0.5	8/12/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)
	R34(B)A045(6-12)	0.5-1	8/12/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)
R34(B)B000	R34(B)B000(0-6)	0-0.5	8/12/1998	NA	ND(0.50)	0.30 J	0.30 J
	R34(B)B000(6-12)	0.5-1	8/12/1998	NA	ND(0.40)	0.30 J	0.30 J
R34(B)C000	R34(B)C000(0-2)	0-2	9/3/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)
	R34(B)C000(0-6)	0-0.5	8/12/1998	NA	ND(0.60)	ND(0.60)	ND(0.60)
	R34(B)C000(6-12)	0.5-1	8/12/1998	NA	ND(0.40)	0.30 J	0.30 J
	R34(B)C000(2-4)	2-4	9/3/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)
	R34(B)C000(4-6)	4-6	9/3/1998	NA	ND(0.50) [ND(0.10)]	ND(0.50) [ND(0.10)]	ND(0.50) [ND(0.10)]
	R34(B)C000(6-8)	6-8	9/3/1998	NA	ND(0.50)	ND(0.50)	ND(0.50)

**Notes:**

1. Sample collection and analysis performed by United States Environmental Protection Agency (EPA) Subcontractors. Results provided to GE under a Data Exchange Agreement between GE and EPA.
2. NA - Not Analyzed - EPA did not report results for this analyte.
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. Field duplicate sample results are presented in brackets.

**Data Qualifiers:**

J - Estimated Value.

**TABLE A-6  
EPA SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID: Location ID: Sample ID: Sample Depth(Feet): Date Collected:	Recreational Area R1 RAA15-E1 OJ-BH000937-0-0060 6-10 03/10/03	Recreational Area R3A RAA15-E15 OJ-BH000928-0-0060 6-10 02/26/03
<b>Volatile Organics</b>			
1,1,1,2-Tetrachloroethane		ND(0.0044)	NA
1,1,1-Trichloroethane		ND(0.0044)	NA
1,1,2,2-Tetrachloroethane		ND(0.0044)	NA
1,1,2-Trichloroethane		ND(0.0044)	NA
1,1-Dichloroethane		ND(0.0044)	NA
1,1-Dichloroethene		ND(0.0044)	NA
1,2,3-Trichloropropane		ND(0.0044)	NA
1,2,4-Trichlorobenzene		ND(0.0044)	NA
1,2-Dibromo-3-chloropropane		ND(0.0044)	NA
1,2-Dibromoethane		ND(0.0044)	NA
1,2-Dichlorobenzene		ND(0.0044)	NA
1,2-Dichloroethane		ND(0.0044)	NA
1,2-Dichloropropane		ND(0.0044)	NA
1,3-Dichlorobenzene		ND(0.0044)	NA
1,4-Dichlorobenzene		ND(0.0044)	NA
1,4-Dioxane		R	NA
2-Butanone		R	NA
2-Chloro-1,3-butadiene		ND(0.0044)	NA
2-Chloroethylvinylether		ND(0.0044) J	NA
2-Hexanone		ND(0.0044)	NA
3-Chloropropene		ND(0.0044)	NA
4-Methyl-2-pentanone		ND(0.0044)	NA
Acetone		0.0070	NA
Acrolein		R	NA
Acrylonitrile		ND(0.0044)	NA
Benzene		ND(0.0044)	NA
Bromodichloromethane		ND(0.0044)	NA
Bromoform		ND(0.0044)	NA
Bromomethane		ND(0.0044)	NA
Carbon Disulfide		ND(0.0044)	NA
Carbon Tetrachloride		ND(0.0044)	NA
Chlorobenzene		ND(0.0044)	NA
Chloroethane		ND(0.0044)	NA
Chloroform		ND(0.0044)	NA
Chloromethane		ND(0.0044)	NA
cis-1,2-Dichloroethene		ND(0.0044)	NA
cis-1,3-Dichloropropene		ND(0.0044)	NA
Dibromochloromethane		ND(0.0044)	NA
Dibromomethane		ND(0.0044)	NA
Ethyl Methacrylate		ND(0.0044)	NA
Ethylbenzene		ND(0.0044)	NA
Freon 12		ND(0.0044)	NA
Iodomethane		ND(0.0044)	NA
Isobutanol		R	NA
m&p-Xylene		ND(0.0044)	NA
Methacrylonitrile		ND(0.0044)	NA
Methyl Methacrylate		ND(0.0044)	NA
Methyl tert-butyl ether		ND(0.0044)	NA
Methylene Chloride		ND(0.0044)	NA
Naphthalene		ND(0.0044)	NA
o-Xylene		ND(0.0044)	NA
Propionitrile		R	NA
Styrene		ND(0.0044)	NA
Tetrachloroethene		ND(0.0044)	NA
Toluene		ND(0.0044)	NA
trans-1,2-Dichloroethene		ND(0.0044)	NA
trans-1,3-Dichloropropene		ND(0.0044)	NA
trans-1,4-Dichloro-2-butene		ND(0.0044)	NA
Trichloroethene		ND(0.0044)	NA
Trichlorofluoromethane		ND(0.0044)	NA
Vinyl Acetate		ND(0.0044)	NA
Vinyl Chloride		ND(0.0044)	NA
Xylenes (total)		ND(0.0044)	NA

**TABLE A-6  
EPA SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID: Location ID: Sample ID: Sample Depth(Feet): Date Collected:	Recreational Area R1 RAA15-E1 OJ-BH000937-0-0060 6-10 03/10/03	Recreational Area R3A RAA15-E15 OJ-BH000928-0-0060 6-10 02/26/03
<b>Semivolatile Organics</b>			
1,2,4,5-Tetrachlorobenzene		ND(0.38) J	ND(1.5) J
1,2,4-Trichlorobenzene		ND(0.38)	ND(1.5)
1,2-Dichlorobenzene		ND(0.38)	ND(1.5)
1,3,5-Trinitrobenzene		ND(0.38)	ND(1.5)
1,3-Dichlorobenzene		ND(0.38)	ND(1.5)
1,3-Dinitrobenzene		ND(0.38)	ND(1.5)
1,4-Dichlorobenzene		ND(0.38)	ND(1.5)
1,4-Naphthoquinone		ND(0.38)	ND(1.5)
1-Naphthylamine		ND(0.38)	ND(1.5) J
2,3,4,6-Tetrachlorophenol		ND(0.38)	ND(1.5)
2,4,5-Trichlorophenol		ND(0.95)	ND(3.8)
2,4,6-Trichlorophenol		ND(0.38)	ND(1.5)
2,4-Dichlorophenol		ND(0.38)	ND(1.5)
2,4-Dimethylphenol		ND(0.38)	ND(1.5)
2,4-Dinitrophenol		ND(0.95) J	ND(3.8)
2,4-Dinitrotoluene		ND(0.38)	ND(1.5)
2,6-Dichlorophenol		ND(0.38)	ND(1.5)
2,6-Dinitrotoluene		ND(0.38)	ND(1.5)
2-Acetylaminofluorene		ND(0.38)	ND(1.5)
2-Chloronaphthalene		ND(0.38)	ND(1.5)
2-Chlorophenol		ND(0.38)	ND(1.5)
2-Methylnaphthalene		ND(0.38)	1.1 J
2-Methylphenol		ND(0.38)	ND(1.5)
2-Naphthylamine		ND(0.38)	ND(1.5) J
2-Nitroaniline		ND(0.95)	ND(3.8)
2-Nitrophenol		ND(0.38)	ND(1.5)
2-Picoline		ND(0.38)	ND(1.5)
3&4-Methylphenol		ND(0.38)	ND(1.5)
3,3'-Dichlorobenzidine		ND(0.38)	ND(1.5) J
3,3'-Dimethylbenzidine		ND(0.38)	ND(1.5) J
3-Methylcholanthrene		ND(0.38)	ND(1.5) J
3-Nitroaniline		ND(0.95)	ND(3.8)
4,6-Dinitro-2-methylphenol		ND(0.95)	ND(3.8)
4-Aminobiphenyl		ND(0.38)	ND(1.5) J
4-Bromophenyl-phenylether		ND(0.38)	ND(1.5)
4-Chloro-3-Methylphenol		ND(0.38) J	ND(1.5)
4-Chloroaniline		ND(0.38) J	ND(1.5) J
4-Chlorobenzilate		ND(0.38)	ND(1.5)
4-Chlorophenyl-phenylether		ND(0.38)	ND(1.5)
4-Nitroaniline		ND(0.95)	ND(3.8)
4-Nitrophenol		ND(0.95) J	ND(3.8)
4-Nitroquinoline-1-oxide		ND(0.38) J	ND(1.5)
4-Phenylenediamine		ND(0.38)	ND(1.5)
5-Nitro-o-toluidine		ND(0.38)	ND(1.5)
7,12-Dimethylbenz(a)anthracene		ND(0.38)	ND(1.5) J
a,a'-Dimethylphenethylamine		ND(0.38)	ND(1.5)
Acenaphthene		ND(0.38)	0.86 J
Acenaphthylene		ND(0.38)	0.27 J
Acetophenone		ND(0.38)	ND(1.5)
Aniline		ND(0.95)	ND(3.8)
Anthracene		ND(0.38)	2.2
Aramite		ND(0.38)	ND(1.5)
Azobenzene		ND(0.38)	ND(1.5)
Benzo(a)anthracene		ND(0.38)	3.7
Benzo(a)pyrene		ND(0.38)	2.4 J
Benzo(b)fluoranthene		ND(0.38)	2.3 J
Benzo(g,h,i)perylene		ND(0.38)	1.4 J
Benzo(k)fluoranthene		ND(0.38) J	4.0 J
Benzyl Alcohol		ND(0.38)	ND(1.5)
bis(2-Chloroethoxy)methane		ND(0.38)	ND(1.5)
bis(2-Chloroethyl)ether		ND(0.38)	ND(1.5)
bis(2-Chloroisopropyl)ether		ND(0.38)	ND(1.5)
bis(2-Ethylhexyl)phthalate		ND(0.38)	ND(1.5) J
Butylbenzylphthalate		ND(0.38)	ND(1.5)
Chrysene		ND(0.38)	3.6 J
Diallate		ND(0.38)	ND(1.5)

**TABLE A-6  
EPA SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID: Location ID: Sample ID: Sample Depth(Feet): Date Collected:	Recreational Area R1 RAA15-E1 OJ-BH000937-0-0060 6-10 03/10/03	Recreational Area R3A RAA15-E15 OJ-BH000928-0-0060 6-10 02/26/03
<b>Semivolatile Organics (continued)</b>			
Dibenzo(a,h)anthracene		ND(0.38)	0.74 J
Dibenzofuran		ND(0.38)	0.53 J
Diethylphthalate		ND(0.38)	ND(1.5)
Dimethylphthalate		ND(0.38)	ND(1.5)
Di-n-Butylphthalate		ND(0.38)	ND(1.5)
Di-n-Octylphthalate		ND(0.38)	ND(1.5) J
Ethyl Methanesulfonate		ND(0.38)	ND(1.5)
Fluoranthene		ND(0.38)	5.8
Fluorene		ND(0.38)	1.4 J
Hexachlorobenzene		ND(0.38)	ND(1.5)
Hexachlorobutadiene		ND(0.38)	ND(1.5)
Hexachlorocyclopentadiene		ND(0.38)	ND(1.5) J
Hexachloroethane		ND(0.38)	ND(1.5)
Hexachloropropene		ND(0.38)	ND(1.5)
Indeno(1,2,3-cd)pyrene		ND(0.38)	1.4 J
Isophorone		ND(0.38)	ND(1.5)
Isosafrole		ND(0.38) J	ND(1.5) J
Methapyrilene		ND(0.38)	ND(1.5)
Methyl Methanesulfonate		ND(0.38)	ND(1.5)
Naphthalene		ND(0.38)	0.38 J
Nitrobenzene		ND(0.38)	ND(1.5)
N-Nitrosodiethylamine		ND(0.38)	ND(1.5)
N-Nitrosodimethylamine		ND(0.38)	ND(1.5)
N-Nitroso-di-n-butylamine		ND(0.38)	ND(1.5)
N-Nitroso-di-n-propylamine		ND(0.38)	ND(1.5)
N-Nitrosodiphenylamine		ND(0.38)	ND(1.5)
N-Nitrosomethylethylamine		ND(0.38)	ND(1.5) J
N-Nitrosomorpholine		ND(0.38)	ND(1.5)
N-Nitrosopiperidine		ND(0.38)	ND(1.5)
N-Nitrosopyrrolidine		ND(0.38)	ND(1.5)
o-Toluidine		ND(0.38)	ND(1.5)
p-Dimethylaminoazobenzene		ND(0.38)	ND(1.5)
Pentachlorobenzene		ND(0.38)	ND(1.5)
Pentachloroethane		ND(0.38)	ND(1.5)
Pentachloronitrobenzene		ND(0.38)	ND(1.5)
Pentachlorophenol		ND(0.95)	ND(3.8)
Phenacetin		ND(0.38)	ND(1.5)
Phenanthrene		ND(0.38)	7.7 J
Phenol		ND(0.38)	ND(1.5)
Pronamide		ND(0.38)	ND(1.5)
Pyrene		ND(0.38)	8.2
Pyridine		ND(0.38) J	ND(1.5) J
Safrole		ND(0.38)	ND(1.5)
<b>Herbicides</b>			
Dinoseb		ND(0.38)	ND(1.5)
<b>Inorganics</b>			
Antimony		ND(0.300)	0.400
Arsenic		4.40	0.810 J
Barium		21.6	6.20
Beryllium		ND(0.200)	0.110
Cadmium		ND(0.0430)	ND(0.0400)
Chromium		7.20	4.40
Cobalt		7.50	3.10
Copper		12.3	3.10
Cyanide		ND(0.560)	NA
Lead		4.30	5.50 J
Mercury		ND(0.0190)	ND(0.0180)
Nickel		13.0 J	5.10
Selenium		0.970	ND(0.280) J
Silver		ND(0.170)	ND(0.160) J
Thallium		ND(0.310) J	ND(0.290) J
Tin		ND(0.390)	ND(0.470)
Vanadium		7.50	4.10
Zinc		49.5 J	21.9



**TABLE A-6  
EPA SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Notes:

1. Sample collection and analysis performed by United States Environmental Protection Agency (EPA) Subcontractors. Results provided to GE under a Data Exchange Agreement between GE and EPA.
2. NA - Not Analyzed.
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.

Data Qualifiers:

Organics (volatiles, semivolatiles, herbicides)

- J - Estimated Value.
- R - Rejected.

Inorganics

- J - Estimated Value.

**TABLE A-7  
HISTORICAL SOIL SAMPLING RESULTS FOR PCBs**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Location ID	Sample ID	Depth(Feet)	Date Collected	Aroclor-1016, -1221 -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
<b>Parcel K10-10-5</b>							
K-1	ROO1B0002	0-2	1/31/1991	NA	ND(0.050)	0.15	0.15
	ROO1B0204	2-4	1/31/1991	NA	ND(0.050)	ND(0.050)	ND(0.050)
	ROO1B0406	4-6	1/31/1991	NA	ND(0.050)	ND(0.050)	ND(0.050)
	ROO1B0608	6-8	1/31/1991	NA	ND(0.050)	ND(0.050)	ND(0.050)
	ROO1B0810	8-10	1/31/1991	NA	ND(0.050)	ND(0.050)	ND(0.050)
	ROO1B1012	10-12	1/31/1991	NA	ND(0.050)	ND(0.050)	ND(0.050)
	ROO1B1214	12-14	1/31/1991	NA	ND(0.050)	ND(0.050)	ND(0.050)
	ROO1B1416	14-16	1/31/1991	NA	ND(0.050)	ND(0.050)	ND(0.050)
<b>Parcel K10-10-33</b>							
K-2	ROO2B0002	0-2	1/31/1991	NA	ND(0.050)	0.070	0.070
	ROO2B0204	2-4	1/31/1991	NA	ND(0.050)	ND(0.050)	ND(0.050)
	ROO2B0406	4-6	1/31/1991	NA	ND(0.050)	ND(0.050)	ND(0.050)
	ROO2B0608	6-8	1/31/1991	NA	ND(0.050)	ND(0.050)	ND(0.050)
	ROO2B0810	8-10	1/31/1991	NA	ND(0.050)	ND(0.050)	ND(0.050)
SBS-15	K10-10-33-SBS-15	0-0.5	4/28/1998	ND(0.050)	0.22	0.47	0.69
SBS-16	K10-10-33-SBS-16	0-0.5	4/28/1998	ND(0.048)	ND(0.048)	0.22	0.22
SBS-17	K10-10-33-SBS-17	0-0.5	4/28/1998	ND(0.057)	0.41	0.79	1.2
SBS-18	K10-10-33-SBS-18	0-0.5	4/28/1998	ND(0.051)	0.26	0.62	0.88
<b>Parcel K10-11-1</b>							
YB-5	YB-5	4-8	10/6/1989	NA	ND(0.050)	0.080	0.080
<b>Parcel K10-11-2</b>							
YB-1	YB-1	4-8	10/6/1989	NA	0.25	0.18	0.43
YB-2	YB-2	4-8	10/6/1989	NA	0.63	0.17	0.80
YB-3	YB-3	4-8	10/6/1989	NA	ND(0.050)	ND(0.050)	ND(0.050)
<b>Parcel K10-12-1</b>							
FP-1	FP-1	4-8	10/5/1989	NA	ND(0.050)	ND(0.050)	ND(0.050)
		8-12	10/5/1989	NA	ND(0.050)	ND(0.050)	ND(0.050)
		12-16	10/5/1989	NA	ND(0.050)	ND(0.050)	ND(0.050)
FP-2	FP-2	4-8	10/5/1989	NA	ND(0.050)	ND(0.050)	ND(0.050)
SA-1	SA-1	4-8	10/5/1989	NA	ND(0.050)	ND(0.050)	ND(0.050)
		8-12	10/5/1989	NA	ND(0.050)	0.050	0.050
SA-2	SA-2	4-8	10/5/1989	NA	0.080	0.050	0.13
		8-12	10/5/1989	NA	ND(0.050)	ND(0.050)	ND(0.050)
<b>Parcel K10-13-1</b>							
FP-3	FP-3	4-8	10/5/1989	NA	0.33	0.050	0.38
<b>Recreational Area R1</b>							
FP-4	FP-4	4-8	10/5/1989	NA	ND(0.050)	ND(0.050)	ND(0.050)
<b>Recreational Area R2</b>							
YB-4	YB-4	4-8	10/6/1989	NA	ND(0.050)	ND(0.050)	ND(0.050)

**Notes:**

1. Samples were collected and analyzed by General Electric Company subcontractors for PCBs.
2. NA - Not Analyzed.
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.

**TABLE A-8  
HISTORICAL SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID:	K10-10-5	K10-10-33	K10-11-1	K10-11-2	K10-12-1
Location ID:	K-1	K-2	J-3S	YB-2	FP-1
Sample ID:	ROO1B1416	ROO2B0810	ROJ3S	YB-2	FP-1
Sample Depth(Feet):	14-16	8-10	0-0.3	4-8	8-12
Date Collected:	01/31/91	01/31/91	12/10/91	10/06/89	10/05/89
<b>Volatile Organics</b>					
1,1,1,2-Tetrachloroethane	ND(0.0060)	ND(0.0060)	ND(0.0050)	NA	NA
1,1,1-trichloro-2,2,2-trifluoroethane	ND(0.012)	ND(0.012)	ND(0.011)	NA	NA
1,1,1-Trichloroethane	ND(0.0060)	ND(0.0060)	ND(0.0050)	0.0040 J	ND(0.0050)
1,1,2,2-Tetrachloroethane	ND(0.012)	ND(0.012)	ND(0.011)	ND(0.0050)	ND(0.0050)
1,1,2-trichloro-1,2,2-trifluoroethane	ND(0.012)	ND(0.012)	0.0020 J	NA	NA
1,1,2-Trichloroethane	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethane	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethene	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2,3-Trichloropropane	ND(0.018)	ND(0.018)	ND(0.016)	NA	NA
1,2-Dibromo-3-chloropropane	ND(0.012)	ND(0.012)	ND(0.011)	NA	NA
1,2-Dibromoethane	ND(0.0060)	ND(0.0060)	ND(0.0050)	NA	NA
1,2-Dichloroethane	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dichloroethene (total)	ND(0.0060)	ND(0.0060)	ND(0.0050)	NA	NA
1,2-Dichloropropane	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Butanone	ND(0.012)	ND(0.012)	ND(0.011)	NA	NA
2-Chloroethylvinylether	ND(0.012)	ND(0.012)	ND(0.011)	ND(0.010)	ND(0.010)
2-Hexanone	ND(0.018)	ND(0.018)	ND(0.016)	NA	NA
3-Chloropropene	ND(0.018)	ND(0.018)	ND(0.016)	NA	NA
4-Methyl-2-pentanone	ND(0.018)	ND(0.018)	ND(0.016)	NA	NA
Acetone	0.022 B	0.032 B	0.028	NA	NA
Acrolein	ND(0.11)	ND(0.11)	ND(0.099)	ND(0.010)	ND(0.010)
Acrylonitrile	ND(0.14)	ND(0.15)	ND(0.13)	ND(0.010)	ND(0.010)
Benzene	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromoform	ND(0.012)	ND(0.012)	ND(0.011)	ND(0.0050)	ND(0.0050)
Bromomethane	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.010)	ND(0.010)
Carbon Disulfide	ND(0.0060)	ND(0.0060)	ND(0.0050)	NA	NA
Carbon Tetrachloride	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroethane	ND(0.012)	ND(0.012)	ND(0.011)	ND(0.010)	ND(0.010)
Chloroform	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloromethane	ND(0.012)	ND(0.012)	ND(0.011)	ND(0.010)	ND(0.010)
cis-1,3-Dichloropropene	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.0050)	ND(0.0050)
cis-1,4-Dichloro-2-butene	ND(0.018)	ND(0.018)	ND(0.016)	NA	NA
Crotonaldehyde	ND(0.12)	ND(0.12)	ND(0.11)	NA	NA
Dibromochloromethane	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromomethane	ND(0.012)	ND(0.012)	ND(0.011)	NA	NA
Ethyl Methacrylate	ND(0.012)	ND(0.012)	ND(0.011)	NA	NA
Ethylbenzene	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Iodomethane	ND(0.012)	ND(0.012)	ND(0.011)	NA	NA
Methylene Chloride	0.033 B	0.038 B	0.055 B	0.0030 J	0.0060
Styrene	ND(0.0060)	ND(0.0060)	ND(0.0050)	NA	NA
Tetrachloroethene	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Toluene	ND(0.0060)	ND(0.0060)	ND(0.0050)	0.0010 J	0.0040 J
trans-1,2-Dichloroethene	NA	NA	NA	ND(0.0050)	ND(0.0050)
trans-1,3-Dichloropropene	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,4-Dichloro-2-butene	ND(0.018)	ND(0.018)	ND(0.016)	NA	NA
Trichloroethene	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.0050)	0.0010 J
Trichlorofluoromethane	ND(0.0060)	ND(0.0060)	ND(0.0050)	NA	NA
Vinyl Acetate	ND(0.012)	ND(0.012)	ND(0.011)	NA	NA
Vinyl Chloride	ND(0.012)	ND(0.012)	ND(0.011)	ND(0.010)	ND(0.010)
Xylenes (total)	ND(0.0060)	ND(0.0060)	ND(0.0050)	NA	NA
<b>Semivolatile Organics</b>					
1,2,3,4-Tetrachlorobenzene	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
1,2,3,5-Tetrachlorobenzene	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
1,2,3-Trichlorobenzene	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
1,2,4,5-Tetrachlorobenzene	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
1,2,4-Trichlorobenzene	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)
1,2-Dichlorobenzene	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)
1,2-Diphenylhydrazine	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)
1,3,5-Trichlorobenzene	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
1,3,5-Trinitrobenzene	ND(0.78)	ND(0.81)	ND(0.36)	NA	NA
1,3-Dichlorobenzene	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)
1,4-Dichlorobenzene	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)
1,4-Dinitrobenzene	ND(0.78)	ND(0.81)	ND(0.72)	NA	NA
1,4-Naphthoquinone	ND(0.78)	ND(0.81)	ND(0.72)	NA	NA
1-Chloronaphthalene	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA

**TABLE A-8  
HISTORICAL SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID:	K10-10-5	K10-10-33	K10-11-1	K10-11-2	K10-12-1	
Location ID:	K-1	K-2	J-3S	YB-2	FP-1	
Sample ID:	ROO1B1416	ROO2B0810	ROJ3S	YB-2	FP-1	
Sample Depth(Feet):	14-16	8-10	0-0.3	4-8	8-12	
Parameter	Date Collected:	01/31/91	01/31/91	12/10/91	10/06/89	10/05/89
<b>Semivolatile Organics (continued)</b>						
1-Methylnaphthalene	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
1-Naphthylamine	ND(0.78)	ND(0.81)	ND(0.72)	NA	NA	
2,3,4,6-Tetrachlorophenol	ND(0.78)	ND(0.81)	ND(0.72)	NA	NA	
2,4,5-Trichlorophenol	ND(0.78)	ND(0.81)	ND(0.72)	NA	NA	
2,4,6-Trichlorophenol	ND(0.78)	ND(0.81)	ND(0.72)	NA	NA	
2,4-Dichlorophenol	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
2,4-Dimethylphenol	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
2,4-Dinitrophenol	ND(1.5)	ND(1.6)	ND(0.36)	NA	NA	
2,4-Dinitrotoluene	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)	
2,6-Dichlorophenol	ND(0.78)	ND(0.81)	ND(0.72)	NA	NA	
2,6-Dinitrotoluene	ND(0.39)	ND(0.40)	ND(0.72)	ND(2.0)	ND(2.0)	
2-Acetylaminofluorene	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
2-Chloronaphthalene	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)	
2-Chlorophenol	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
2-Methylnaphthalene	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
2-Methylphenol	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
2-Naphthylamine	ND(0.78)	ND(0.81)	ND(0.36)	NA	NA	
2-Nitroaniline	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
2-Nitrophenol	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
2-Phenylenediamine	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
2-Picoline	ND(0.78)	ND(0.81)	ND(0.72)	NA	NA	
3&4-Methylphenol	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
3,3'-Dichlorobenzidine	ND(0.39)	ND(0.40)	ND(0.36)	ND(4.0)	ND(4.0)	
3,3'-Dimethoxybenzidine	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
3,3'-Dimethylbenzidine	ND(0.39)	ND(0.40)	ND(0.72)	NA	NA	
3-Methylcholanthrene	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
3-Nitroaniline	ND(0.78)	ND(0.81)	ND(0.36)	NA	NA	
3-Phenylenediamine	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
4,4'-Methylene-bis(2-chloroaniline)	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
4,6-Dinitro-2-methylphenol	ND(1.2)	ND(1.2)	ND(0.36)	NA	NA	
4-Aminobiphenyl	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
4-Bromophenyl-phenylether	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)	
4-Chloro-3-Methylphenol	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
4-Chloroaniline	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
4-Chlorobenzilate	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
4-Chlorophenyl-phenylether	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)	
4-Nitroaniline	ND(0.78)	ND(0.81)	ND(0.72)	NA	NA	
4-Nitrophenol	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
4-Phenylenediamine	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
5-Nitro-o-toluidine	ND(0.78)	ND(0.81)	ND(0.72)	NA	NA	
7,12-Dimethylbenz(a)anthracene	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
a,a'-Dimethylphenethylamine	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
Acenaphthene	ND(0.39)	ND(0.40)	0.063 J	ND(2.0)	ND(2.0)	
Acenaphthylene	ND(0.39)	ND(0.40)	ND(0.36)	0.27 J	ND(2.0)	
Acetophenone	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
Aniline	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
Anthracene	ND(0.39)	ND(0.40)	0.10 J	ND(2.0)	ND(2.0)	
Benzal chloride	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
Benzidine	ND(0.39)	ND(0.40)	ND(0.36)	ND(10)	ND(9.9)	
Benzo(a)anthracene	ND(0.39)	0.045 J	0.63	0.30 J	ND(2.0)	
Benzo(a)pyrene	ND(0.39)	0.042 J	0.60 J	0.37 J	ND(2.0)	
Benzo(b)fluoranthene	ND(0.39)	0.086 JZ	0.65 Z	0.38 J	ND(2.0)	
Benzo(g,h,i)perylene	ND(0.39)	ND(0.40)	0.35	ND(2.0)	ND(2.0)	
Benzo(k)fluoranthene	ND(0.39)	0.086 JZ	0.65 Z	0.46 J	ND(2.0)	
Benzoic Acid	ND(3.9)	ND(4.0)	ND(3.6)	NA	NA	
Benzotrichloride	ND(0.78)	ND(0.81)	ND(0.72)	NA	NA	
Benzyl Alcohol	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
Benzyl Chloride	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
bis(2-Chloroethoxy)methane	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)	
bis(2-Chloroethyl)ether	ND(0.78)	ND(0.81)	ND(0.72)	ND(2.0)	ND(2.0)	
bis(2-Chloroisopropyl)ether	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)	
bis(2-Ethylhexyl)phthalate	ND(0.39)	0.067 J	0.053 J	ND(2.0)	ND(2.0)	
Butylbenzylphthalate	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)	
Chrysene	ND(0.39)	0.059 J	0.64	0.31 J	ND(2.0)	
Cyclophosphamide	ND(1.9)	ND(2.0)	ND(1.7)	NA	NA	
Diallate	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
Dibenz(a,j)acridine	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA	
Dibenzo(a,h)anthracene	ND(0.39)	ND(0.40)	0.88	ND(2.0)	ND(2.0)	

**TABLE A-8  
HISTORICAL SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID:	K10-10-5	K10-10-33	K10-11-1	K10-11-2	K10-12-1
Location ID:	K-1	K-2	J-3S	YB-2	FP-1
Sample ID:	ROO1B1416	ROO2B0810	ROJ3S	YB-2	FP-1
Sample Depth(Feet):	14-16	8-10	0-0.3	4-8	8-12
Date Collected:	01/31/91	01/31/91	12/10/91	10/06/89	10/05/89
Parameter					
<b>Semivolatile Organics (continued)</b>					
Dibenzofuran	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
Diethylphthalate	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)
Dimethylphthalate	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)
Di-n-Butylphthalate	ND(0.39)	0.053 J	ND(0.36)	ND(2.0)	ND(2.0)
Di-n-Octylphthalate	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)
Diphenylamine	ND(0.39)	ND(0.40)	ND(0.72)	NA	NA
Ethyl Methacrylate	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
Ethyl Methanesulfonate	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
Fluoranthene	ND(0.39)	0.080 J	1.2	0.47 J	0.35 J
Fluorene	ND(0.39)	ND(0.40)	0.049	ND(2.0)	ND(2.0)
Hexachlorobenzene	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)
Hexachlorobutadiene	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)
Hexachlorocyclopentadiene	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)
Hexachloroethane	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)
Hexachloropropene	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
Indeno(1,2,3-cd)pyrene	ND(0.39)	ND(0.40)	0.29	ND(2.0)	ND(2.0)
Isophorone	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)
Isosafrole	ND(0.78)	ND(0.81)	ND(0.72)	NA	NA
Methapyriene	ND(0.78)	ND(0.81)	ND(0.72)	NA	NA
Methyl Methanesulfonate	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
Naphthalene	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)
Nitrobenzene	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)
N-Nitrosodimethylamine	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
N-Nitrosodimethylamine	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)
N-Nitroso-di-n-butylamine	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
N-Nitroso-di-n-propylamine	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)
N-Nitrosodiphenylamine	ND(0.39)	ND(0.40)	ND(0.36)	ND(2.0)	ND(2.0)
N-Nitrosomethylethylamine	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
N-Nitrosomorpholine	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
N-Nitrosopiperidine	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
N-Nitrosopyrrolidine	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
o-Toluidine	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
Paraldehyde	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
p-Dimethylaminoazobenzene	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
Pentachlorobenzene	ND(0.39)	ND(0.40)	ND(0.72)	NA	NA
Pentachloroethane	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
Pentachloronitrobenzene	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
Pentachlorophenol	ND(0.78)	ND(0.81)	ND(0.72)	NA	NA
Phenacetin	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
Phenanthrene	ND(0.39)	0.053 J	0.63	0.29 J	0.48 J
Phenol	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
Pronamide	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
Pyrene	ND(0.39)	0.097 J	1.0	0.70 J	0.27 J
Pyridine	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
Safrole	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
Thionazin	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
<b>Organophosphate Pesticides</b>					
Dimethoate	ND(0.39)	ND(0.40)	ND(0.36)	NA	NA
<b>Furans</b>					
2,3,7,8-TCDF	ND(0.00024)	ND(0.000032)	NA	NA	NA
TCDFs (total)	ND(0.000040)	ND(0.000067)	NA	NA	NA
1,2,3,7,8-PeCDF	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	NA	NA	NA	NA	NA
PeCDFs (total)	ND(0.000049)	ND(0.000043)	NA	NA	NA
1,2,3,4,7,8-HxCDF	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	NA	NA	NA	NA	NA
HxCDFs (total)	ND(0.000077)	ND(0.000079)	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	NA	NA	NA	NA	NA
HpCDFs (total)	ND(0.00011)	ND(0.00010)	NA	NA	NA
OCDF	ND(0.00018)	ND(0.00018)	NA	NA	NA

**TABLE A-8  
HISTORICAL SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parcel ID:	K10-10-5	K10-10-33	K10-11-1	K10-11-2	K10-12-1
Location ID:	K-1	K-2	J-3S	YB-2	FP-1
Sample ID:	ROO1B1416	ROO2B0810	ROJ3S	YB-2	FP-1
Sample Depth(Feet):	14-16	8-10	0-0.3	4-8	8-12
Date Collected:	01/31/91	01/31/91	12/10/91	10/06/89	10/05/89
<b>Dioxins</b>					
2,3,7,8-TCDD	ND(0.000048)	ND(0.000071)	NA	NA	NA
TCDDs (total)	ND(0.000048)	ND(0.000071)	NA	NA	NA
1,2,3,7,8-PeCDD	NA	NA	NA	NA	NA
PeCDDs (total)	ND(0.000072)	ND(0.000070)	NA	NA	NA
1,2,3,4,7,8-HxCDD	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	NA	NA	NA	NA	NA
HxCDDs (total)	ND(0.00011)	ND(0.00011)	NA	NA	NA
1,2,3,4,6,7,8-HpCDD	NA	NA	NA	NA	NA
HpCDDs (total)	ND(0.00012)	ND(0.00013)	NA	NA	NA
OCDD	ND(0.00024)	ND(0.00022)	NA	NA	NA
Total TEQs (WHO TEFs)	0.000036	0.000037	NA	NA	NA
<b>Inorganics</b>					
Aluminum	4200	2900	5500 *	NA	NA
Antimony	ND(1.20)	ND(1.20)	ND(7.70) N	NA	NA
Arsenic	2.00	ND(1.20)	5.50 A	NA	NA
Barium	ND(24.0)	ND(24.0)	28.0 B	NA	NA
Beryllium	ND(0.590)	ND(0.600)	ND(0.210)	NA	NA
Cadmium	ND(0.590)	ND(0.600)	ND(1.10)	NA	NA
Calcium	17000	ND(600)	8240 E	NA	NA
Chromium	3.20	4.20	7.70	NA	NA
Cobalt	ND(5.90)	ND(6.00)	5.60 B	NA	NA
Copper	11.0	ND(3.00)	12.0 N	NA	NA
Cyanide	ND(0.590)	ND(0.600)	ND(0.550)	NA	NA
Iron	12000	7400	14400 *	NA	NA
Lead	ND(12.0)	ND(12.0)	13.5 *	NA	NA
Magnesium	9800	1300	4590	NA	NA
Manganese	300	56.0	214 N*	NA	NA
Mercury	ND(0.120)	ND(0.120)	ND(0.110)	NA	NA
Nickel	9.30	ND(4.80)	9.90	NA	NA
Potassium	ND(590)	ND(600)	969 B	NA	NA
Selenium	ND(0.590)	ND(0.600)	ND(0.870) W	NA	NA
Silver	ND(590)	ND(600)	ND(1.30) N	NA	NA
Sodium	ND(590)	ND(600)	166 B	NA	NA
Sulfide	NA	NA	ND(11.0)	NA	NA
Thallium	ND(1.20)	ND(1.20)	ND(0.650) W	NA	NA
Vanadium	5.90	ND(6.00)	11.6	NA	NA
Zinc	38.0	19.0	33.0	NA	NA

**TABLE A-8  
HISTORICAL SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-12-1				
	Location ID:	FP-2	J-4S	OX-J-SS4	OX-J-SS5	OX-J-SS6
	Sample ID:	FP-2	ROJ4S	OX-J-SS4	OX-J-SS5	OX-J-SS6
	Sample Depth(Feet):	4-8	0-0.3	0-0.3	0-0.3	0-0.3
Date Collected:	10/05/89	12/10/91	09/16/94	09/16/94	09/16/94	
<b>Volatile Organics</b>						
1,1,1,2-Tetrachloroethane	NA	ND(0.0070)	NA	NA	NA	
1,1,1-trichloro-2,2,2-trifluoroethane	NA	ND(0.015)	NA	NA	NA	
1,1,1-Trichloroethane	ND(0.0050)	ND(0.0070)	NA	NA	NA	
1,1,2,2-Tetrachloroethane	ND(0.0050)	ND(0.015)	NA	NA	NA	
1,1,2-trichloro-1,2,2-trifluoroethane	NA	0.0030 J	NA	NA	NA	
1,1,2-Trichloroethane	ND(0.0050)	ND(0.0070)	NA	NA	NA	
1,1-Dichloroethane	ND(0.0050)	ND(0.0070)	NA	NA	NA	
1,1-Dichloroethene	ND(0.0050)	ND(0.0070)	NA	NA	NA	
1,2,3-Trichloropropane	NA	ND(0.022)	NA	NA	NA	
1,2-Dibromo-3-chloropropane	NA	ND(0.015)	NA	NA	NA	
1,2-Dibromoethane	NA	ND(0.0070)	NA	NA	NA	
1,2-Dichloroethane	ND(0.0050)	ND(0.0070)	NA	NA	NA	
1,2-Dichloroethene (total)	NA	ND(0.0070)	NA	NA	NA	
1,2-Dichloropropane	ND(0.0050)	ND(0.0070)	NA	NA	NA	
2-Butanone	NA	ND(0.015)	NA	NA	NA	
2-Chloroethylvinylether	ND(0.010)	ND(0.015)	NA	NA	NA	
2-Hexanone	NA	ND(0.022)	NA	NA	NA	
3-Chloropropene	NA	ND(0.022)	NA	NA	NA	
4-Methyl-2-pentanone	NA	ND(0.022)	NA	NA	NA	
Acetone	NA	0.059	NA	NA	NA	
Acrolein	ND(0.010)	ND(0.13)	NA	NA	NA	
Acrylonitrile	ND(0.010)	ND(0.18)	NA	NA	NA	
Benzene	ND(0.0050)	ND(0.0070)	NA	NA	NA	
Bromodichloromethane	ND(0.0050)	ND(0.0070)	NA	NA	NA	
Bromoform	ND(0.0050)	ND(0.015)	NA	NA	NA	
Bromomethane	ND(0.010)	ND(0.0070)	NA	NA	NA	
Carbon Disulfide	NA	ND(0.0070)	NA	NA	NA	
Carbon Tetrachloride	ND(0.0050)	ND(0.0070)	NA	NA	NA	
Chlorobenzene	ND(0.0050)	ND(0.0070)	NA	NA	NA	
Chloroethane	ND(0.010)	ND(0.015)	NA	NA	NA	
Chloroform	ND(0.0050)	ND(0.0070)	NA	NA	NA	
Chloromethane	ND(0.010)	ND(0.015)	NA	NA	NA	
cis-1,3-Dichloropropene	ND(0.0050)	ND(0.0070)	NA	NA	NA	
cis-1,4-Dichloro-2-butene	NA	ND(0.022)	NA	NA	NA	
Crotonaldehyde	NA	ND(0.15)	NA	NA	NA	
Dibromochloromethane	ND(0.0050)	ND(0.0070)	NA	NA	NA	
Dibromomethane	NA	ND(0.015)	NA	NA	NA	
Ethyl Methacrylate	NA	ND(0.015)	NA	NA	NA	
Ethylbenzene	ND(0.0050)	ND(0.0070)	NA	NA	NA	
Iodomethane	NA	ND(0.015)	NA	NA	NA	
Methylene Chloride	0.0060	0.087	NA	NA	NA	
Styrene	NA	ND(0.0070)	NA	NA	NA	
Tetrachloroethene	ND(0.0050)	ND(0.0070)	NA	NA	NA	
Toluene	0.0030 J	ND(0.0070)	NA	NA	NA	
trans-1,2-Dichloroethene	ND(0.0050)	NA	NA	NA	NA	
trans-1,3-Dichloropropene	ND(0.0050)	ND(0.0070)	NA	NA	NA	
trans-1,4-Dichloro-2-butene	NA	ND(0.022)	NA	NA	NA	
Trichloroethene	ND(0.0050)	ND(0.0070)	NA	NA	NA	
Trichlorofluoromethane	NA	ND(0.0070)	NA	NA	NA	
Vinyl Acetate	NA	ND(0.015)	NA	NA	NA	
Vinyl Chloride	ND(0.010)	ND(0.015)	NA	NA	NA	
Xylenes (total)	NA	ND(0.0070)	NA	NA	NA	
<b>Semivolatile Organics</b>						
1,2,3,4-Tetrachlorobenzene	NA	ND(1.2)	NA	NA	NA	
1,2,3,5-Tetrachlorobenzene	NA	ND(1.2)	NA	NA	NA	
1,2,3-Trichlorobenzene	NA	ND(1.2)	NA	NA	NA	
1,2,4,5-Tetrachlorobenzene	NA	ND(1.2)	NA	NA	NA	
1,2,4-Trichlorobenzene	ND(1.9)	ND(1.2)	NA	NA	NA	
1,2-Dichlorobenzene	ND(1.9)	ND(1.2)	NA	NA	NA	
1,2-Diphenylhydrazine	ND(1.9)	ND(1.2)	NA	NA	NA	
1,3,5-Trichlorobenzene	NA	ND(1.2)	NA	NA	NA	
1,3,5-Trinitrobenzene	NA	ND(1.2)	NA	NA	NA	
1,3-Dichlorobenzene	ND(1.9)	ND(1.2)	NA	NA	NA	
1,4-Dichlorobenzene	ND(1.9)	ND(1.2)	NA	NA	NA	
1,4-Dinitrobenzene	NA	ND(2.4)	NA	NA	NA	
1,4-Naphthoquinone	NA	ND(2.4)	NA	NA	NA	
1-Chloronaphthalene	NA	ND(1.2)	NA	NA	NA	

**TABLE A-8  
HISTORICAL SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-12-1				
	Location ID:	FP-2	J-4S	OX-J-SS4	OX-J-SS5	OX-J-SS6
	Sample ID:	FP-2	ROJ4S	OX-J-SS4	OX-J-SS5	OX-J-SS6
	Sample Depth(Feet):	4-8	0-0.3	0-0.3	0-0.3	0-0.3
Date Collected:	10/05/89	12/10/91	09/16/94	09/16/94	09/16/94	
<b>Semivolatle Organics (continued)</b>						
1-Methylnaphthalene	NA	ND(1.2)	NA	NA	NA	
1-Naphthylamine	NA	ND(2.4)	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NA	ND(2.4)	NA	NA	NA	
2,4,5-Trichlorophenol	NA	ND(2.4)	NA	NA	NA	
2,4,6-Trichlorophenol	NA	ND(2.4)	NA	NA	NA	
2,4-Dichlorophenol	NA	ND(1.2)	NA	NA	NA	
2,4-Dimethylphenol	NA	ND(1.2)	NA	NA	NA	
2,4-Dinitrophenol	NA	ND(1.2)	NA	NA	NA	
2,4-Dinitrotoluene	ND(1.9)	ND(1.2)	NA	NA	NA	
2,6-Dichlorophenol	NA	ND(2.4)	NA	NA	NA	
2,6-Dinitrotoluene	ND(1.9)	ND(2.4)	NA	NA	NA	
2-Acetylaminofluorene	NA	ND(1.2)	NA	NA	NA	
2-Chloronaphthalene	ND(1.9)	ND(1.2)	NA	NA	NA	
2-Chlorophenol	NA	ND(1.2)	NA	NA	NA	
2-Methylnaphthalene	NA	ND(1.2)	NA	NA	NA	
2-Methylphenol	NA	ND(1.2)	NA	NA	NA	
2-Naphthylamine	NA	ND(1.2)	NA	NA	NA	
2-Nitroaniline	NA	ND(1.2)	NA	NA	NA	
2-Nitrophenol	NA	ND(1.2)	NA	NA	NA	
2-Phenylenediamine	NA	ND(1.2)	NA	NA	NA	
2-Picoline	NA	ND(2.4)	NA	NA	NA	
3&4-Methylphenol	NA	ND(1.2)	NA	NA	NA	
3,3'-Dichlorobenzidine	ND(3.8)	ND(1.2)	NA	NA	NA	
3,3'-Dimethoxybenzidine	NA	ND(1.2)	NA	NA	NA	
3,3'-Dimethylbenzidine	NA	ND(2.4)	NA	NA	NA	
3-Methylcholanthrene	NA	ND(1.2)	NA	NA	NA	
3-Nitroaniline	NA	ND(1.2)	NA	NA	NA	
3-Phenylenediamine	NA	ND(1.2)	NA	NA	NA	
4,4'-Methylene-bis(2-chloroaniline)	NA	ND(1.2)	NA	NA	NA	
4,6-Dinitro-2-methylphenol	NA	ND(1.2)	NA	NA	NA	
4-Aminobiphenyl	NA	ND(1.2)	NA	NA	NA	
4-Bromophenyl-phenylether	ND(1.9)	ND(1.2)	NA	NA	NA	
4-Chloro-3-Methylphenol	NA	ND(1.2)	NA	NA	NA	
4-Chloroaniline	NA	ND(1.2)	NA	NA	NA	
4-Chlorobenzilate	NA	ND(1.2)	NA	NA	NA	
4-Chlorophenyl-phenylether	ND(1.9)	ND(1.2)	NA	NA	NA	
4-Nitroaniline	NA	ND(2.4)	NA	NA	NA	
4-Nitrophenol	NA	ND(1.2)	NA	NA	NA	
4-Phenylenediamine	NA	ND(1.2)	NA	NA	NA	
5-Nitro-o-toluidine	NA	ND(2.4)	NA	NA	NA	
7,12-Dimethylbenz(a)anthracene	NA	ND(1.2)	NA	NA	NA	
a,a'-Dimethylphenethylamine	NA	ND(1.2)	NA	NA	NA	
Acenaphthene	ND(1.9)	ND(1.2)	NA	NA	NA	
Acenaphthylene	ND(1.9)	0.25 J	NA	NA	NA	
Acetophenone	NA	ND(1.2)	NA	NA	NA	
Aniline	NA	ND(1.2)	NA	NA	NA	
Anthracene	ND(1.9)	0.18 J	NA	NA	NA	
Benzal chloride	NA	ND(1.2)	NA	NA	NA	
Benazidine	ND(9.5)	ND(1.2)	NA	NA	NA	
Benzo(a)anthracene	0.26 J	1.5	NA	NA	NA	
Benzo(a)pyrene	0.20 J	1.5	NA	NA	NA	
Benzo(b)fluoranthene	ND(1.9)	3.2 Z	NA	NA	NA	
Benzo(g,h,i)perylene	ND(1.9)	ND(1.2)	NA	NA	NA	
Benzo(k)fluoranthene	ND(1.9)	3.2 Z	NA	NA	NA	
Benzoic Acid	NA	ND(12)	NA	NA	NA	
Benzotrchloride	NA	ND(2.4)	NA	NA	NA	
Benzyl Alcohol	NA	ND(1.2)	NA	NA	NA	
Benzyl Chloride	NA	ND(1.2)	NA	NA	NA	
bis(2-Chloroethoxy)methane	ND(1.9)	ND(1.2)	NA	NA	NA	
bis(2-Chloroethyl)ether	ND(1.9)	ND(2.4)	NA	NA	NA	
bis(2-Chloroisopropyl)ether	ND(1.9)	ND(1.2)	NA	NA	NA	
bis(2-Ethylhexyl)phthalate	ND(1.9)	0.42 J	NA	NA	NA	
Butylbenzylphthalate	ND(1.9)	ND(1.2)	NA	NA	NA	
Chrysene	0.23 J	2.2	NA	NA	NA	
Cyclophosphamide	NA	ND(5.9)	NA	NA	NA	
Diallate	NA	ND(1.2)	NA	NA	NA	
Dibenz(a,j)acridine	NA	ND(1.2)	NA	NA	NA	
Dibenzo(a,h)anthracene	ND(1.9)	ND(1.2)	NA	NA	NA	



**TABLE A-8  
HISTORICAL SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-12-1				
	Location ID:	FP-2	J-4S	OX-J-SS4	OX-J-SS5	OX-J-SS6
	Sample ID:	FP-2	ROJ4S	OX-J-SS4	OX-J-SS5	OX-J-SS6
	Sample Depth(Feet):	4-8	0-0.3	0-0.3	0-0.3	0-0.3
Date Collected:	10/05/89	12/10/91	09/16/94	09/16/94	09/16/94	
<b>Semivolatile Organics (continued)</b>						
Dibenzofuran	NA	ND(1.2)	NA	NA	NA	
Diethylphthalate	ND(1.9)	ND(1.2)	NA	NA	NA	
Dimethylphthalate	ND(1.9)	ND(1.2)	NA	NA	NA	
Di-n-Butylphthalate	ND(1.9)	0.15 J	NA	NA	NA	
Di-n-Octylphthalate	ND(1.9)	ND(1.2)	NA	NA	NA	
Diphenylamine	NA	ND(2.4)	NA	NA	NA	
Ethyl Methacrylate	NA	ND(1.2)	NA	NA	NA	
Ethyl Methanesulfonate	NA	ND(1.2)	NA	NA	NA	
Fluoranthene	0.55 J	2.8	NA	NA	NA	
Fluorene	ND(1.9)	0.14 J	NA	NA	NA	
Hexachlorobenzene	ND(1.9)	ND(1.2)	NA	NA	NA	
Hexachlorobutadiene	ND(1.9)	ND(1.2)	NA	NA	NA	
Hexachlorocyclopentadiene	ND(1.9)	ND(1.2)	NA	NA	NA	
Hexachloroethane	ND(1.9)	ND(1.2)	NA	NA	NA	
Hexachloropropene	NA	ND(1.2)	NA	NA	NA	
Indeno(1,2,3-cd)pyrene	ND(1.9)	ND(1.2)	NA	NA	NA	
Isophorone	ND(1.9)	ND(1.2)	NA	NA	NA	
Isosafrole	NA	ND(2.4)	NA	NA	NA	
Methapyrilene	NA	ND(2.4)	NA	NA	NA	
Methyl Methanesulfonate	NA	ND(1.2)	NA	NA	NA	
Naphthalene	ND(1.9)	0.15 J	NA	NA	NA	
Nitrobenzene	ND(1.9)	ND(1.2)	NA	NA	NA	
N-Nitrosodiethylamine	NA	ND(1.2)	NA	NA	NA	
N-Nitrosodimethylamine	ND(1.9)	ND(1.2)	NA	NA	NA	
N-Nitroso-di-n-butylamine	NA	ND(1.2)	NA	NA	NA	
N-Nitroso-di-n-propylamine	ND(1.9)	ND(1.2)	NA	NA	NA	
N-Nitrosodiphenylamine	ND(1.9)	ND(1.2)	NA	NA	NA	
N-Nitrosomethylethylamine	NA	ND(1.2)	NA	NA	NA	
N-Nitrosomorpholine	NA	ND(1.2)	NA	NA	NA	
N-Nitrosopiperidine	NA	ND(1.2)	NA	NA	NA	
N-Nitrosopyrrolidine	NA	ND(1.2)	NA	NA	NA	
o-Toluidine	NA	ND(1.2)	NA	NA	NA	
Paraldehyde	NA	ND(1.2)	NA	NA	NA	
p-Dimethylaminoazobenzene	NA	ND(1.2)	NA	NA	NA	
Pentachlorobenzene	NA	ND(2.4)	NA	NA	NA	
Pentachloroethane	NA	ND(1.2)	NA	NA	NA	
Pentachloronitrobenzene	NA	ND(1.2)	NA	NA	NA	
Pentachlorophenol	NA	ND(2.4)	NA	NA	NA	
Phenacetin	NA	ND(1.2)	NA	NA	NA	
Phenanthrene	0.48 J	1.7	NA	NA	NA	
Phenol	NA	ND(1.2)	NA	NA	NA	
Pronamide	NA	ND(1.2)	NA	NA	NA	
Pyrene	0.42 J	2.4	NA	NA	NA	
Pyridine	NA	ND(1.2)	NA	NA	NA	
Safrole	NA	ND(1.2)	NA	NA	NA	
Thionazin	NA	ND(1.2)	NA	NA	NA	
<b>Organophosphate Pesticides</b>						
Dimethoate	NA	ND(1.2)	NA	NA	NA	
<b>Furans</b>						
2,3,7,8-TCDF	NA	NA	0.000035	0.000057 [0.000055]	0.000013	
TCDFs (total)	NA	NA	0.00032 I	0.000065 I [0.000045 I]	0.00011 I	
1,2,3,7,8-PeCDF	NA	NA	0.000018	0.000020 J [0.000018 J]	0.0000035	
2,3,4,7,8-PeCDF	NA	NA	0.000039	0.000067 [0.000065]	0.0000069	
PeCDFs (total)	NA	NA	0.00045 I	0.000097 I [0.000086 I]	0.000094 I	
1,2,3,4,7,8-HxCDF	NA	NA	0.000036	0.000043 [0.000032]	0.0000048	
1,2,3,6,7,8-HxCDF	NA	NA	0.000032 I	0.000060 I [0.000051 I]	0.0000065 I	
1,2,3,7,8,9-HxCDF	NA	NA	0.000062	0.0000099 J [0.0000081 J]	0.000011 J	
2,3,4,6,7,8-HxCDF	NA	NA	0.000031	0.000072 I [0.000058 I]	0.0000077 I	
HxCDFs (total)	NA	NA	0.00050 I	0.000092 I [0.000080 I]	0.000092 I	
1,2,3,4,6,7,8-HpCDF	NA	NA	0.00015 I	0.000024 I [0.000019 I]	0.000022 I	
1,2,3,4,7,8,9-HpCDF	NA	NA	0.000013	0.000021 J [0.000014 J]	0.000019 J	
HpCDFs (total)	NA	NA	0.00042 I	0.000052 I [0.000043 I]	0.000046 I	
OCDF	NA	NA	0.00029	0.000026 [0.000022]	0.000022	

**TABLE A-8  
HISTORICAL SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-12-1				
	Location ID:	FP-2	J-4S	OX-J-SS4	OX-J-SS5	OX-J-SS6
	Sample ID:	FP-2	ROJ4S	OX-J-SS4	OX-J-SS5	OX-J-SS6
	Sample Depth(Feet):	4-8	0-0.3	0-0.3	0-0.3	0-0.3
	Date Collected:	10/05/89	12/10/91	09/16/94	09/16/94	09/16/94
<b>Dioxins</b>						
2,3,7,8-TCDD	NA	NA	0.0000055	ND(0.0000036) [ND(0.0000028)]	ND(0.0000047)	
TCDDs (total)	NA	NA	0.0000099	0.0000069 [0.0000011]	0.0000038	
1,2,3,7,8-PeCDD	NA	NA	ND(0.0000030) X	ND(0.0000049) [ND(0.0000045)]	ND(0.0000071)	
PeCDDs (total)	NA	NA	0.000011	ND(0.000010) [ND(0.0000091)]	ND(0.000019)	
1,2,3,4,7,8-HxCDD	NA	NA	0.0000043	0.0000068 J [0.0000057 J]	0.0000078 J	
1,2,3,6,7,8-HxCDD	NA	NA	0.000023	0.000019 J [0.000018 J]	0.000022 J	
1,2,3,7,8,9-HxCDD	NA	NA	0.0000068	0.000011 J [0.0000090 J]	0.000014 J	
HxCDDs (total)	NA	NA	0.00013	0.00015 [0.00013]	0.00020	
1,2,3,4,6,7,8-HpCDD	NA	NA	0.00068	0.00034 [0.00031]	0.00037	
HpCDDs (total)	NA	NA	0.0021	0.00074 [0.00067]	0.0010	
OCDD	NA	NA	0.0065	0.00026 [0.00024]	0.00027	
Total TEQs (WHO TEFs)	NA	NA	0.000049	0.000073 [0.000066]	0.000086	
<b>Inorganics</b>						
Aluminum	NA	10100 *	NA	NA	NA	
Antimony	NA	11.1 BN	NA	NA	NA	
Arsenic	NA	9.50	NA	NA	NA	
Barium	NA	66.8	NA	NA	NA	
Beryllium	NA	0.300 B	NA	NA	NA	
Cadmium	NA	ND(1.50)	NA	NA	NA	
Calcium	NA	18100 E	NA	NA	NA	
Chromium	NA	17.8	NA	NA	NA	
Cobalt	NA	14.8 B	NA	NA	NA	
Copper	NA	58.8 N	NA	NA	NA	
Cyanide	NA	ND(0.750)	ND(0.630)	ND(0.580) [ND(0.580)]	ND(0.560)	
Iron	NA	44200 *	NA	NA	NA	
Lead	NA	195 *	NA	NA	NA	
Magnesium	NA	11500	NA	NA	NA	
Manganese	NA	987 N*	NA	NA	NA	
Mercury	NA	0.210	NA	NA	NA	
Nickel	NA	27.9	NA	NA	NA	
Potassium	NA	1120 B	NA	NA	NA	
Selenium	NA	ND(1.20)	NA	NA	NA	
Silver	NA	ND(1.80) N	NA	NA	NA	
Sodium	NA	174 B	NA	NA	NA	
Sulfide	NA	ND(14.9)	NA	NA	NA	
Thallium	NA	ND(0.880) W	NA	NA	NA	
Vanadium	NA	27.3	NA	NA	NA	
Zinc	NA	266	NA	NA	NA	

**TABLE A-8  
HISTORICAL SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-13-1			Recreational Area R1	
	Location ID:	FP-3	J-2S	OX-J-SS1	OX-J-SS2	OX-J-SS3
	Sample ID:	FP-3	ROJ2S	OX-J-SS1	OX-J-SS2	OX-J-SS3
	Sample Depth(Feet):	4-8	0-0.3	0-0.3	0-0.3	0-0.3
Date Collected:	10/05/89	12/10/91	09/16/94	09/16/94	09/16/94	
<b>Volatile Organics</b>						
1,1,1,2-Tetrachloroethane	NA	ND(0.0060)	NA	NA	NA	
1,1,1-trichloro-2,2,2-trifluoroethane	NA	ND(0.012)	NA	NA	NA	
1,1,1-Trichloroethane	ND(0.0050)	ND(0.0060)	NA	NA	NA	
1,1,2,2-Tetrachloroethane	ND(0.0050)	ND(0.012)	NA	NA	NA	
1,1,2-trichloro-1,2,2-trifluoroethane	NA	0.0030 J	NA	NA	NA	
1,1,2-Trichloroethane	ND(0.0050)	ND(0.0060)	NA	NA	NA	
1,1-Dichloroethane	ND(0.0050)	ND(0.0060)	NA	NA	NA	
1,1-Dichloroethene	ND(0.0050)	ND(0.0060)	NA	NA	NA	
1,2,3-Trichloropropane	NA	ND(0.018)	NA	NA	NA	
1,2-Dibromo-3-chloropropane	NA	ND(0.012)	NA	NA	NA	
1,2-Dibromoethane	NA	ND(0.0060)	NA	NA	NA	
1,2-Dichloroethane	ND(0.0050)	ND(0.0060)	NA	NA	NA	
1,2-Dichloroethene (total)	NA	ND(0.0060)	NA	NA	NA	
1,2-Dichloropropane	ND(0.0050)	ND(0.0060)	NA	NA	NA	
2-Butanone	NA	ND(0.012)	NA	NA	NA	
2-Chloroethylvinylether	ND(0.010)	ND(0.012)	NA	NA	NA	
2-Hexanone	NA	ND(0.018)	NA	NA	NA	
3-Chloropropene	NA	ND(0.018)	NA	NA	NA	
4-Methyl-2-pentanone	NA	ND(0.018)	NA	NA	NA	
Acetone	NA	0.039	NA	NA	NA	
Acrolein	ND(0.010)	ND(0.11)	NA	NA	NA	
Acrylonitrile	ND(0.010)	ND(0.14)	NA	NA	NA	
Benzene	ND(0.0050)	ND(0.0060)	NA	NA	NA	
Bromodichloromethane	ND(0.0050)	ND(0.0060)	NA	NA	NA	
Bromoform	ND(0.0050)	ND(0.012)	NA	NA	NA	
Bromomethane	ND(0.010)	ND(0.0060)	NA	NA	NA	
Carbon Disulfide	NA	ND(0.0060)	NA	NA	NA	
Carbon Tetrachloride	ND(0.0050)	ND(0.0060)	NA	NA	NA	
Chlorobenzene	ND(0.0050)	ND(0.0060)	NA	NA	NA	
Chloroethane	ND(0.010)	ND(0.012)	NA	NA	NA	
Chloroform	ND(0.0050)	ND(0.0060)	NA	NA	NA	
Chloromethane	ND(0.010)	ND(0.012)	NA	NA	NA	
cis-1,3-Dichloropropene	ND(0.0050)	ND(0.0060)	NA	NA	NA	
cis-1,4-Dichloro-2-butene	NA	ND(0.018)	NA	NA	NA	
Crotonaldehyde	NA	ND(0.12)	NA	NA	NA	
Dibromochloromethane	ND(0.0050)	ND(0.0060)	NA	NA	NA	
Dibromomethane	NA	ND(0.012)	NA	NA	NA	
Ethyl Methacrylate	NA	ND(0.012)	NA	NA	NA	
Ethylbenzene	ND(0.0050)	ND(0.0060)	NA	NA	NA	
Iodomethane	NA	ND(0.012)	NA	NA	NA	
Methylene Chloride	0.0050 J	0.074 B	NA	NA	NA	
Styrene	NA	ND(0.0060)	NA	NA	NA	
Tetrachloroethene	ND(0.0050)	ND(0.0060)	NA	NA	NA	
Toluene	0.0030 J	ND(0.0060)	NA	NA	NA	
trans-1,2-Dichloroethene	ND(0.0050)	NA	NA	NA	NA	
trans-1,3-Dichloropropene	ND(0.0050)	ND(0.0060)	NA	NA	NA	
trans-1,4-Dichloro-2-butene	NA	ND(0.018)	NA	NA	NA	
Trichloroethene	ND(0.0050)	ND(0.0060)	NA	NA	NA	
Trichlorofluoromethane	NA	ND(0.0060)	NA	NA	NA	
Vinyl Acetate	NA	ND(0.012)	NA	NA	NA	
Vinyl Chloride	ND(0.010)	ND(0.012)	NA	NA	NA	
Xylenes (total)	NA	ND(0.0060)	NA	NA	NA	
<b>Semivolatile Organics</b>						
1,2,3,4-Tetrachlorobenzene	NA	NR	NA	NA	NA	
1,2,3,5-Tetrachlorobenzene	NA	NR	NA	NA	NA	
1,2,3-Trichlorobenzene	NA	NR	NA	NA	NA	
1,2,4,5-Tetrachlorobenzene	NA	NR	NA	NA	NA	
1,2,4-Trichlorobenzene	ND(2.0)	NR	NA	NA	NA	
1,2-Dichlorobenzene	ND(2.0)	NR	NA	NA	NA	
1,2-Diphenylhydrazine	ND(2.0)	ND(0.38)	NA	NA	NA	
1,3,5-Trichlorobenzene	NA	NR	NA	NA	NA	
1,3,5-Trinitrobenzene	NA	ND(0.77)	NA	NA	NA	
1,3-Dichlorobenzene	ND(2.0)	NR	NA	NA	NA	
1,4-Dichlorobenzene	ND(2.0)	NR	NA	NA	NA	
1,4-Dinitrobenzene	NA	NR	NA	NA	NA	
1,4-Naphthoquinone	NA	NR	NA	NA	NA	
1-Chloronaphthalene	NA	NR	NA	NA	NA	

**TABLE A-8  
HISTORICAL SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-13-1			Recreational Area R1	
	Location ID:	FP-3	J-2S	OX-J-SS1	OX-J-SS2	OX-J-SS3
	Sample ID:	FP-3	ROJ2S	OX-J-SS1	OX-J-SS2	OX-J-SS3
	Sample Depth(Feet):	4-8	0-0.3	0-0.3	0-0.3	0-0.3
Date Collected:	10/05/89	12/10/91	09/16/94	09/16/94	09/16/94	
<b>Semivolatile Organics (continued)</b>						
1-Methylnaphthalene	NA	NR	NA	NA	NA	
1-Naphthylamine	NA	ND(0.77)	NA	NA	NA	
2,3,4,6-Tetrachlorophenol	NA	ND(0.77)	NA	NA	NA	
2,4,5-Trichlorophenol	NA	NR	NA	NA	NA	
2,4,6-Trichlorophenol	NA	NR	NA	NA	NA	
2,4-Dichlorophenol	NA	NR	NA	NA	NA	
2,4-Dimethylphenol	NA	NR	NA	NA	NA	
2,4-Dinitrophenol	NA	ND(1.5)	NA	NA	NA	
2,4-Dinitrotoluene	ND(2.0)	ND(0.38)	NA	NA	NA	
2,6-Dichlorophenol	NA	NR	NA	NA	NA	
2,6-Dinitrotoluene	ND(2.0)	NR	NA	NA	NA	
2-Acetylaminofluorene	NA	ND(0.38)	NA	NA	NA	
2-Chloronaphthalene	ND(2.0)	NR	NA	NA	NA	
2-Chlorophenol	NA	NR	NA	NA	NA	
2-Methylnaphthalene	NA	NR	NA	NA	NA	
2-Methylphenol	NA	NR	NA	NA	NA	
2-Naphthylamine	NA	ND(0.77)	NA	NA	NA	
2-Nitroaniline	NA	NR	NA	NA	NA	
2-Nitrophenol	NA	NR	NA	NA	NA	
2-Phenylenediamine	NA	NR	NA	NA	NA	
2-Picoline	NA	NR	NA	NA	NA	
3&4-Methylphenol	NA	NR	NA	NA	NA	
3,3'-Dichlorobenzidine	ND(4.0)	ND(0.38)	NA	NA	NA	
3,3'-Dimethoxybenzidine	NA	ND(0.38)	NA	NA	NA	
3,3'-Dimethylbenzidine	NA	ND(0.77)	NA	NA	NA	
3-Methylcholanthrene	NA	ND(0.38)	NA	NA	NA	
3-Nitroaniline	NA	ND(0.77)	NA	NA	NA	
3-Phenylenediamine	NA	NR	NA	NA	NA	
4,4'-Methylene-bis(2-chloroaniline)	NA	ND(0.38)	NA	NA	NA	
4,6-Dinitro-2-methylphenol	NA	ND(1.1)	NA	NA	NA	
4-Aminobiphenyl	NA	ND(0.38)	NA	NA	NA	
4-Bromophenyl-phenylether	ND(2.0)	ND(0.38)	NA	NA	NA	
4-Chloro-3-Methylphenol	NA	NR	NA	NA	NA	
4-Chloroaniline	NA	NR	NA	NA	NA	
4-Chlorobenzilate	NA	ND(0.38)	NA	NA	NA	
4-Chlorophenyl-phenylether	ND(2.0)	ND(0.38)	NA	NA	NA	
4-Nitroaniline	NA	ND(0.77)	NA	NA	NA	
4-Nitrophenol	NA	ND(0.38)	NA	NA	NA	
4-Phenylenediamine	NA	NR	NA	NA	NA	
5-Nitro-o-toluidine	NA	ND(0.77)	NA	NA	NA	
7,12-Dimethylbenz(a)anthracene	NA	ND(0.38)	NA	NA	NA	
a,a'-Dimethylphenethylamine	NA	NR	NA	NA	NA	
Acenaphthene	1.3 J	0.052 J	NA	NA	NA	
Acenaphthylene	0.43 J	NR	NA	NA	NA	
Acetophenone	NA	NR	NA	NA	NA	
Aniline	NA	NR	NA	NA	NA	
Anthracene	3.6	0.14 J	NA	NA	NA	
Benzal chloride	NA	NR	NA	NA	NA	
Benzidine	ND(10)	ND(0.38)	NA	NA	NA	
Benzo(a)anthracene	8.1	0.57	NA	NA	NA	
Benzo(a)pyrene	5.6	0.45	NA	NA	NA	
Benzo(b)fluoranthene	5.0	0.58 Z	NA	NA	NA	
Benzo(g,h,i)perylene	3.5	0.28 Z	NA	NA	NA	
Benzo(k)fluoranthene	4.2	0.58 Z	NA	NA	NA	
Benzoic Acid	NA	NR	NA	NA	NA	
Benzotrichloride	NA	NR	NA	NA	NA	
Benzyl Alcohol	NA	NR	NA	NA	NA	
Benzyl Chloride	NA	NR	NA	NA	NA	
bis(2-Chloroethoxy)methane	ND(2.0)	NR	NA	NA	NA	
bis(2-Chloroethyl)ether	ND(2.0)	NR	NA	NA	NA	
bis(2-Chloroisopropyl)ether	ND(2.0)	NR	NA	NA	NA	
bis(2-Ethylhexyl)phthalate	ND(2.0)	ND(0.38)	NA	NA	NA	
Butylbenzylphthalate	ND(2.0)	ND(0.38)	NA	NA	NA	
Chrysene	5.8	0.70	NA	NA	NA	
Cyclophosphamide	NA	ND(1.9)	NA	NA	NA	
Diallate	NA	ND(0.38)	NA	NA	NA	
Dibenz(a,j)acridine	NA	ND(0.38)	NA	NA	NA	
Dibenzo(a,h)anthracene	0.73 J	0.097 J	NA	NA	NA	

**TABLE A-8  
HISTORICAL SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-13-1			Recreational Area R1	
	Location ID:	FP-3	J-2S	OX-J-SS1	OX-J-SS2	OX-J-SS3
	Sample ID:	FP-3	ROJ2S	OX-J-SS1	OX-J-SS2	OX-J-SS3
	Sample Depth(Feet):	4-8	0-0.3	0-0.3	0-0.3	0-0.3
Date Collected:	10/05/89	12/10/91	09/16/94	09/16/94	09/16/94	
<b>Semivolatile Organics (continued)</b>						
Dibenzofuran	NA	ND(0.38)	NA	NA	NA	
Diethylphthalate	ND(2.0)	ND(0.38)	NA	NA	NA	
Dimethylphthalate	ND(2.0)	NR	NA	NA	NA	
Di-n-Butylphthalate	ND(2.0)	ND(0.38)	NA	NA	NA	
Di-n-Octylphthalate	ND(2.0)	ND(0.38)	NA	NA	NA	
Diphenylamine	NA	ND(0.38)	NA	NA	NA	
Ethyl Methacrylate	NA	NR	NA	NA	NA	
Ethyl Methanesulfonate	NA	NR	NA	NA	NA	
Fluoranthene	15	1.0	NA	NA	NA	
Fluorene	1.5 J	0.058 J	NA	NA	NA	
Hexachlorobenzene	ND(2.0)	ND(0.38)	NA	NA	NA	
Hexachlorobutadiene	ND(2.0)	NR	NA	NA	NA	
Hexachlorocyclopentadiene	ND(2.0)	NR	NA	NA	NA	
Hexachloroethane	ND(2.0)	NR	NA	NA	NA	
Hexachloropropene	NA	NR	NA	NA	NA	
Indeno(1,2,3-cd)pyrene	3.0	0.32 J	NA	NA	NA	
Isophorone	ND(2.0)	NR	NA	NA	NA	
Isosafrole	NA	NR	NA	NA	NA	
Methapyrilene	NA	ND(0.77)	NA	NA	NA	
Methyl Methanesulfonate	NA	NR	NA	NA	NA	
Naphthalene	1.2 J	NR	NA	NA	NA	
Nitrobenzene	ND(2.0)	NR	NA	NA	NA	
N-Nitrosodiethylamine	NA	NR	NA	NA	NA	
N-Nitrosodimethylamine	ND(2.0)	NR	NA	NA	NA	
N-Nitroso-di-n-butylamine	NA	NR	NA	NA	NA	
N-Nitroso-di-n-propylamine	ND(2.0)	NR	NA	NA	NA	
N-Nitrosodiphenylamine	0.25 J	ND(0.38)	NA	NA	NA	
N-Nitrosomethylethylamine	NA	NR	NA	NA	NA	
N-Nitrosomorpholine	NA	NR	NA	NA	NA	
N-Nitrosopiperidine	NA	NR	NA	NA	NA	
N-Nitrosopyrrolidine	NA	NR	NA	NA	NA	
o-Toluidine	NA	NR	NA	NA	NA	
Paraldehyde	NA	NR	NA	NA	NA	
p-Dimethylaminoazobenzene	NA	ND(0.38)	NA	NA	NA	
Pentachlorobenzene	NA	ND(0.77)	NA	NA	NA	
Pentachloroethane	NA	NR	NA	NA	NA	
Pentachloronitrobenzene	NA	ND(0.38)	NA	NA	NA	
Pentachlorophenol	NA	ND(0.77)	NA	NA	NA	
Phenacetin	NA	ND(0.38)	NA	NA	NA	
Phenanthrene	17	0.77	NA	NA	NA	
Phenol	NA	NR	NA	NA	NA	
Pronamide	NA	ND(0.38)	NA	NA	NA	
Pyrene	13	0.81	NA	NA	NA	
Pyridine	NA	NR	NA	NA	NA	
Safrole	NA	NR	NA	NA	NA	
Thionazin	NA	ND(0.38)	NA	NA	NA	
<b>Organophosphate Pesticides</b>						
Dimethoate	NA	ND(0.38)	NA	NA	NA	
<b>Furans</b>						
2,3,7,8-TCDF	NA	NA	0.000068	0.000016	0.000037	
TCDFs (total)	NA	NA	0.000059 I	0.000016 I	0.000032 I	
1,2,3,7,8-PeCDF	NA	NA	0.0000023 J	0.0000059	0.0000099	
2,3,4,7,8-PeCDF	NA	NA	0.0000098	0.000016	0.0000076	
PeCDFs (total)	NA	NA	0.00013 I	0.00026 I	0.00046 I	
1,2,3,4,7,8-HxCDF	NA	NA	0.0000046	0.000015	0.000018	
1,2,3,6,7,8-HxCDF	NA	NA	0.0000066	0.000026 I	0.000030 I	
1,2,3,7,8,9-HxCDF	NA	NA	0.0000011 J	0.0000029	0.0000036	
2,3,4,6,7,8-HxCDF	NA	NA	0.0000094	0.000016	0.000035	
HxCDFs (total)	NA	NA	0.00013 I	0.00035 I	0.00052 I	
1,2,3,4,6,7,8-HpCDF	NA	NA	0.000026 I	0.00016 I	0.00011 I	
1,2,3,4,7,8,9-HpCDF	NA	NA	0.0000021 J	0.0000060	0.0000064	
HpCDFs (total)	NA	NA	0.000061 I	0.00030 I	0.00023 I	
OCDF	NA	NA	0.000033	0.00010	0.000089	

**TABLE A-8  
HISTORICAL SOIL SAMPLING RESULTS FOR APPENDIX IX+3 CONSTITUENTS**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results are presented in dry weight parts per million, ppm)**

Parameter	Parcel ID:	K10-13-1			Recreational Area R1	
	Location ID:	FP-3	J-2S	OX-J-SS1	OX-J-SS2	OX-J-SS3
	Sample ID:	FP-3	ROJ2S	OX-J-SS1	OX-J-SS2	OX-J-SS3
	Sample Depth(Feet):	4-8	0-0.3	0-0.3	0-0.3	0-0.3
Date Collected:	10/05/89	12/10/91	09/16/94	09/16/94	09/16/94	
<b>Dioxins</b>						
2,3,7,8-TCDD	NA	NA	ND(0.00000046)	ND(0.00000046)	ND(0.00000032)	
TCDDs (total)	NA	NA	0.00000082	0.00000035	0.00000046	
1,2,3,7,8-PeCDD	NA	NA	ND(0.00000083) Q	ND(0.00000021) Q	ND(0.00000020) Q	
PeCDDs (total)	NA	NA	ND(0.0000012) Q	0.000014	0.0000084	
1,2,3,4,7,8-HxCDD	NA	NA	0.0000011 J	0.0000019 J	0.0000020 J	
1,2,3,6,7,8-HxCDD	NA	NA	0.0000029	0.0000052	0.0000074	
1,2,3,7,8,9-HxCDD	NA	NA	0.0000019 J	0.0000031	0.0000038	
HxCDDs (total)	NA	NA	0.000024	0.000047	0.000057	
1,2,3,4,6,7,8-HpCDD	NA	NA	0.000050	0.000091	0.00011	
HpCDDs (total)	NA	NA	0.00010	0.00017	0.00025	
OCDD	NA	NA	0.00039	0.00086	0.00084	
Total TEQs (WHO TEFs)	NA	NA	0.0000099	0.000021	0.000021	
<b>Inorganics</b>						
Aluminum	NA	5670 *	NA	NA	NA	
Antimony	NA	10.5 BN	NA	NA	NA	
Arsenic	NA	21.9 A	NA	NA	NA	
Barium	NA	41.5 B	NA	NA	NA	
Beryllium	NA	ND(0.240)	NA	NA	NA	
Cadmium	NA	ND(1.20)	NA	NA	NA	
Calcium	NA	9570 E	NA	NA	NA	
Chromium	NA	41.0	NA	NA	NA	
Cobalt	NA	9.40 B	NA	NA	NA	
Copper	NA	95.6 N	NA	NA	NA	
Cyanide	NA	120	ND(0.600)	ND(0.590)	ND(0.620)	
Iron	NA	68700 *	NA	NA	NA	
Lead	NA	121 *	NA	NA	NA	
Magnesium	NA	7150	NA	NA	NA	
Manganese	NA	854 N*	NA	NA	NA	
Mercury	NA	0.600	NA	NA	NA	
Nickel	NA	43.8	NA	NA	NA	
Potassium	NA	393 B	NA	NA	NA	
Selenium	NA	ND(0.920) W	NA	NA	NA	
Silver	NA	ND(1.40) N	NA	NA	NA	
Sodium	NA	120 B	NA	NA	NA	
Sulfide	NA	65.0	NA	NA	NA	
Thallium	NA	ND(0.690) W	NA	NA	NA	
Vanadium	NA	14.1	NA	NA	NA	
Zinc	NA	164	NA	NA	NA	

**Notes:**

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CompuChem Environmental Corporation and Quanterra Environmental Services, Inc. for analysis of Appendix IX+3 constituents.
2. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
3. NA - Not Analyzed - Laboratory did not report results for this analyte.
4. NR - Not Reported. Data for this parameter group was entered from summary data tables and not the laboratory report form.
5. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
6. Field duplicate sample results are presented in brackets.

**Data Qualifiers:**

Organics (volatiles, semivolatiles, pesticides, dioxin/furans)

- B - Analyte was also detected in the associated method blank.
- I - Polychlorinated Diphenyl Ether (PCDPE) Interference.
- J - Indicates an estimated value less than the practical quantitation limit (PQL).
- Q - Indicates the presence of quantitative interferences.
- X - Estimated Maximum Possible Concentration
- Z - Co eluting isomers could not be chromatographically resolved in the sample.

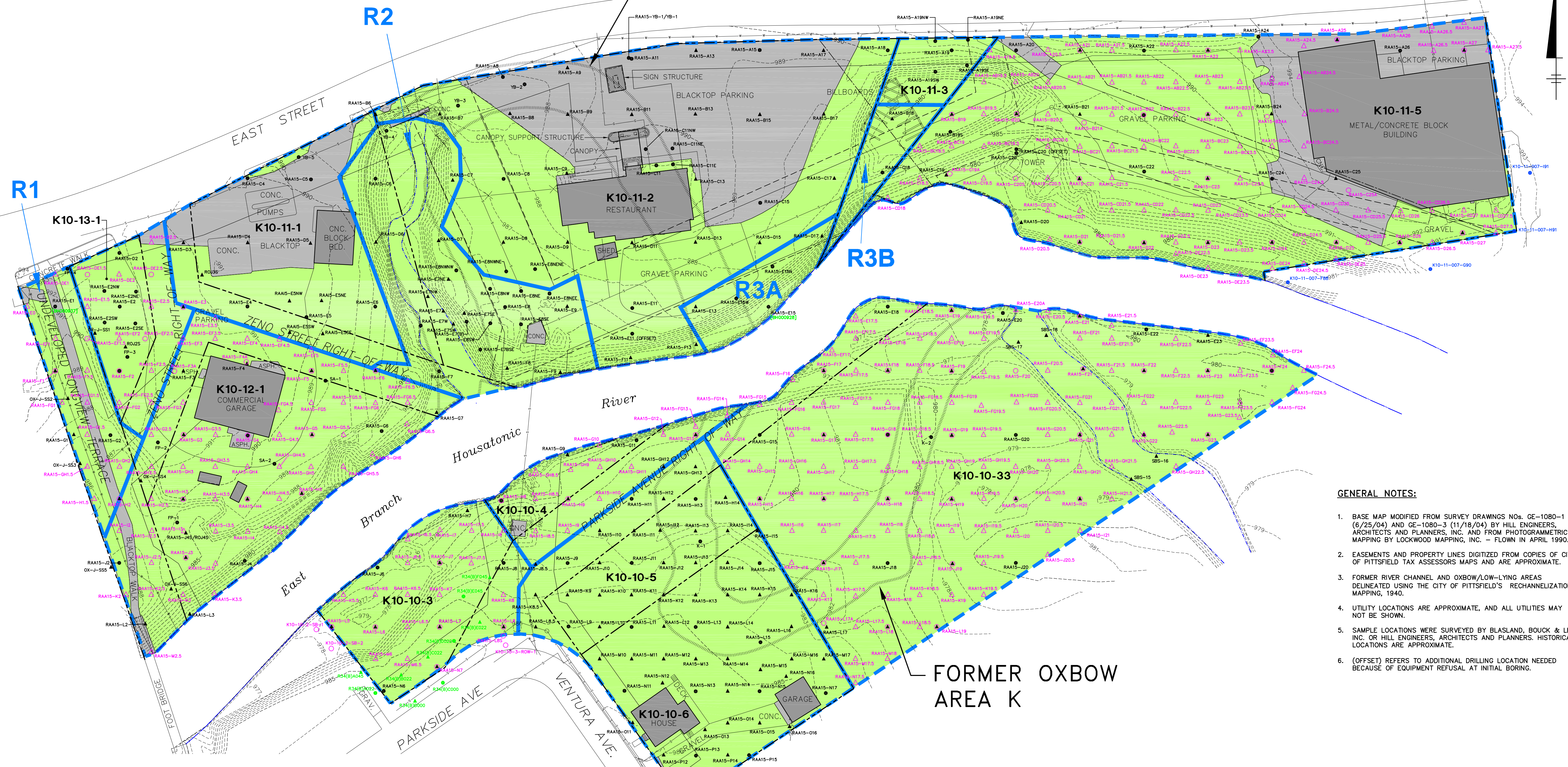
Inorganics

- A - Analyte determination by the method of standard additions (MSA).
- B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
- E - Serial dilution results not within 10%. Applicable only if analyte concentration is at least 50X the IDL in original sample.
- N - Indicates sample matrix spike analysis was outside control limits.
- W - GFAA Analytical spike recovery outside of range of 85% to 115% in a sample which exhibits a low concentration of analyte. Unspiked response must be < 50% of spiked sample response.
- \* - Indicates laboratory duplicate analysis was outside control limits.

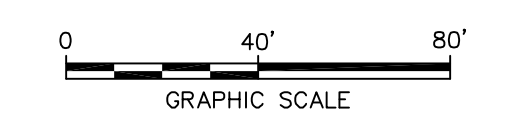


CITY: SVR DIV/GROUP: 65 DE/DWM LD/DWM PIC/OP: PM/REAP TM/OP: LVR/OP/ON: OFF=REF- G/CAD/GE-CAD/N-ACT/IB02020639000000011DWG/FINAL/20639G02.DWG LAYOUT: A-1 SAVED: 4/29/2008 4:08 PM ACADVER: 17.05 (LMS TECH) PAGES: 17 OF 17 PLOTSTYLE: PLT/FULL.CTB PLOTTED: 4/29/2008 4:08 PM BY: WODARCZYK, DAVID XREFS: 20639X01

# FORMER OXBOW AREA J



- GENERAL NOTES:**
1. BASE MAP MODIFIED FROM SURVEY DRAWINGS NOS. GE-1080-1 (6/25/04) AND GE-1080-3 (11/18/04) BY HILL ENGINEERS, ARCHITECTS AND PLANNERS, INC. AND FROM PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC. - FLOWN IN APRIL 1990.
  2. EASEMENTS AND PROPERTY LINES DIGITIZED FROM COPIES OF CITY OF PITTSFIELD TAX ASSESSORS MAPS AND ARE APPROXIMATE.
  3. FORMER RIVER CHANNEL AND OXBOW/LOW-LYING AREAS DELINEATED USING THE CITY OF PITTSFIELD'S RECHANNELIZATION MAPPING, 1940.
  4. UTILITY LOCATIONS ARE APPROXIMATE, AND ALL UTILITIES MAY NOT BE SHOWN.
  5. SAMPLE LOCATIONS WERE SURVEYED BY BLASLAND, BOUCK & LEE, INC. OR HILL ENGINEERS, ARCHITECTS AND PLANNERS. HISTORICAL LOCATIONS ARE APPROXIMATE.
  6. (OFFSET) REFERS TO ADDITIONAL DRILLING LOCATION NEEDED BECAUSE OF EQUIPMENT REFUSAL AT INITIAL BORING.



LEGEND	
	APPROXIMATE REMOVAL ACTION AREA BOUNDARY
	RD/RA AVERAGING AREA BOUNDARY
	PROPERTY LINE
	PROPERTY ID
	<b>R2</b> RECREATIONAL AREA ID
	WESTERN MASS. ELECTRIC CO. EASEMENT
	SEWER EASEMENT
	STREAMS WITH INTERMITTENT FLOW
	INDEX ELEVATION CONTOUR
	INTERMEDIATE ELEVATION CONTOUR
	APPROXIMATE FORMER OXBOW/LOW-LYING AREA
	BUILDING OR PERMANENT STRUCTURE
	PAVED AREA
	UNPAVED AREA
	PRE-2006 SURFACE SOIL SAMPLE LOCATION
	PRE-2006 SOIL BORING LOCATION
	PRE-2006 EPA SURFACE SOIL SAMPLE LOCATION
	PRE-2006 EPA SOIL BORING LOCATION
	SUPPLEMENTAL (2006) SURFACE SOIL SAMPLE LOCATION
	SUPPLEMENTAL (2006) SOIL BORING LOCATION
	2006 SOIL BORING LOCATION (COMMERCIAL STREET AREA)
	EPA SPLIT SAMPLE LOCATION
	APPROXIMATE SEWER LOCATION
	APPROXIMATE STORM DRAIN LOCATION
	APPROXIMATE WATER MAIN LOCATION
	APPROXIMATE GAS LINE LOCATION

**GENERAL ELECTRIC COMPANY  
 PITTSFIELD, MASSACHUSETTS  
 FINAL COMPLETION REPORT FOR FORMER  
 OXBOW AREAS J AND K REMOVAL ACTION**

**SOIL SAMPLE LOCATIONS**

**FIGURE  
 A-1**



ARCADIS

**Appendix B**

Representative Project  
Photographs





Photo #1: Site preparation and installation of silt fencing and hay bales.



Photo #2: Site preparation and installation of silt fencing and hay bales.

Client: General Electric Company  
Project Name: Former Oxbow Areas J and K RAA  
Project Location: Pittsfield, Massachusetts

**ARCADIS**





Photo #3: Clearing of vegetation in preparation for removal activities.



Photo #4: Clearing of vegetation in preparation for removal activities.

Client: General Electric Company  
Project Name: Former Oxbow Areas J and K RAA  
Project Location: Pittsfield, Massachusetts

**ARCADIS**





Photo #5: Performance of removal activities.



Photo #6: Performance of removal activities.

Client: General Electric Company  
Project Name: Former Oxbow Areas J and K RAA  
Project Location: Pittsfield, Massachusetts







Photo #7: Performance of soil removal activities.



Photo #8: Restoration of asphalt surfaces.

Client: General Electric Company  
Project Name: Former Oxbow Areas J and K RAA  
Project Location: Pittsfield, Massachusetts

**ARCADIS**





Photo #9: Completed restoration of asphalt surface.



Photo #10: Completed restoration of vegetated area.

Client: General Electric Company
Project Name: Former Oxbow Areas J and K RAA
Project Location: Pittsfield, Massachusetts

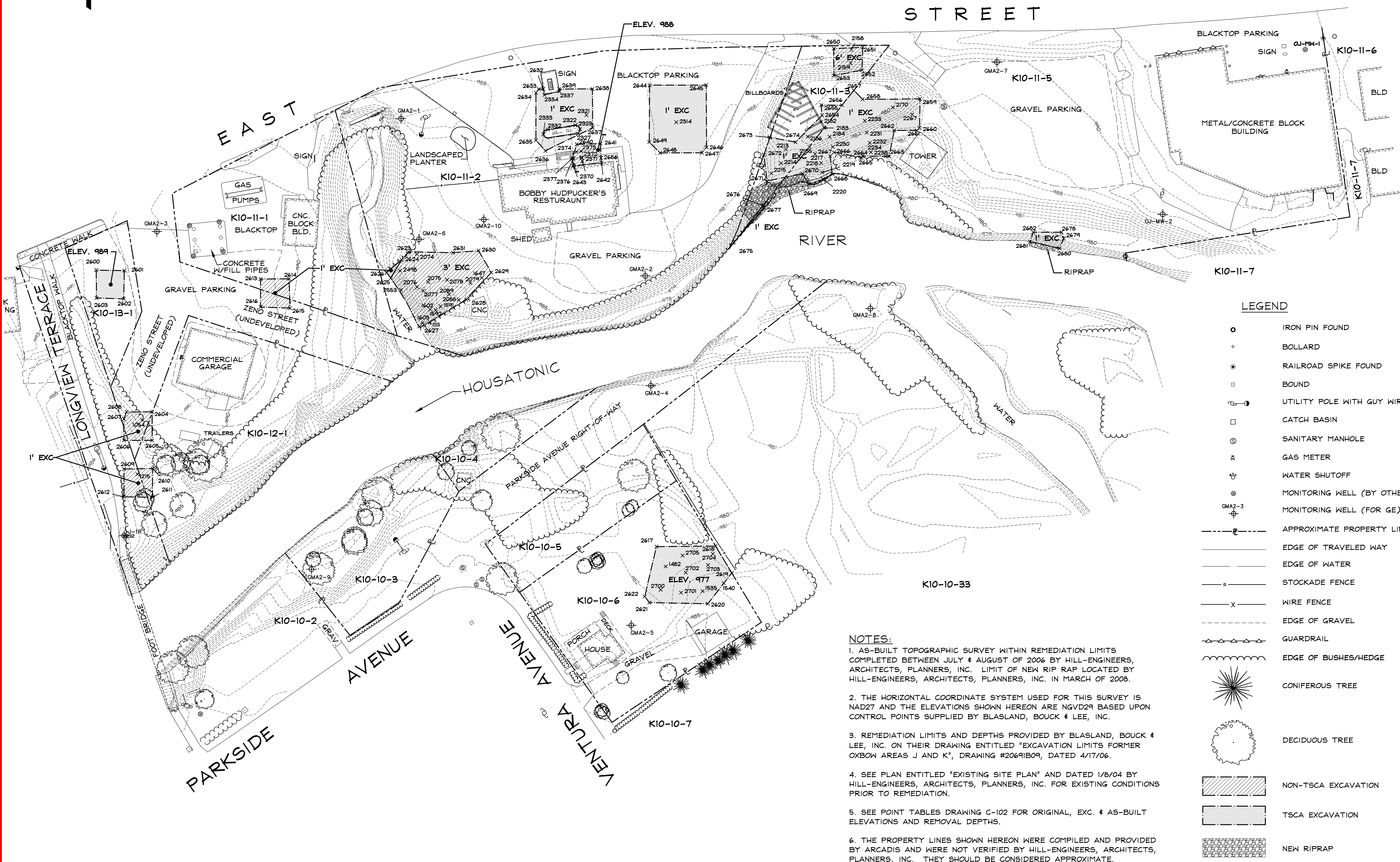
**ARCADIS**

ARCADIS

**Appendix C**

As-Built Survey Drawings





**LEGEND**

- IRON PIN FOUND
- BOLLARD
- ⊙ RAILROAD SPIKE FOUND
- BOUND
- ⊕ UTILITY POLE WITH GUY WIRE
- CATCH BASIN
- ⊙ SANITARY MANHOLE
- ⊙ GAS METER
- ⊕ WATER SHUTOFF
- ⊙ MONITORING WELL (BY OTHERS)
- ⊕ GMA2-3 MONITORING WELL (FOR GE)
- - - APPROXIMATE PROPERTY LINE
- EDGE OF TRAVELED WAY
- EDGE OF WATER
- STOCKADE FENCE
- x - WIRE FENCE
- - - EDGE OF GRAVEL
- - - GUARDRAIL
- - - EDGE OF BUSHES/HEDGE
- ☼ CONIFEROUS TREE
- DECIDUOUS TREE
- ▨ NON-TSCA EXCAVATION
- ▩ TSCA EXCAVATION
- ▨ NEW RIPRAP

- NOTES:**
- AS-BUILT TOPOGRAPHIC SURVEY WITHIN REMEDIATION LIMITS COMPLETED BETWEEN JULY & AUGUST OF 2006 BY HILL-ENGINEERS, ARCHITECTS, PLANNERS, INC. LIMIT OF NEW RIP RAP LOCATED BY HILL-ENGINEERS, ARCHITECTS, PLANNERS, INC. IN MARCH OF 2008.
  - THE HORIZONTAL COORDINATE SYSTEM USED FOR THIS SURVEY IS NAD27 AND THE ELEVATIONS SHOWN HEREON ARE NGVD29 BASED UPON CONTROL POINTS SUPPLIED BY BLASLAND, BOUCK & LEE, INC.
  - REMEDICATION LIMITS AND DEPTHS PROVIDED BY BLASLAND, BOUCK & LEE, INC. ON THEIR DRAWING ENTITLED "EXCAVATION LIMITS FORMER OXBOW AREAS J AND K", DRAWING #20691B09, DATED 4/17/06.
  - SEE PLAN ENTITLED "EXISTING SITE PLAN" AND DATED 1/8/04 BY HILL-ENGINEERS, ARCHITECTS, PLANNERS, INC. FOR EXISTING CONDITIONS PRIOR TO REMEDIATION.
  - SEE POINT TABLES DRAWING C-102 FOR ORIGINAL, EXC. & AS-BUILT ELEVATIONS AND REMOVAL DEPTHS.
  - THE PROPERTY LINES SHOWN HEREON WERE COMPILED AND PROVIDED BY ARCADIS AND WERE NOT VERIFIED BY HILL-ENGINEERS, ARCHITECTS, PLANNERS, INC. THEY SHOULD BE CONSIDERED APPROXIMATE.

REV	DESCRIPTION	DATE
A	ISSUED FOR COMMENT	10-20-06
B	GENERAL REVISIONS	1-25-07
C	GENERAL REVISIONS	12-18-07
D	GENERAL REVISIONS, REVISED RIP RAP	3-4-08

GENERAL ELECTRIC COMPANY, INC.  
159 PLASTICS AVENUE  
PITTSFIELD, MA

PROJECT DESCRIPTION: OXBOWS J & K AREA  
DRAWING TITLE: AS-BUILT SITE PLAN

DRAWN BY: JJM  
DATE DRAWN: 10-20-06  
SCALE: 1"=40'  
APV'D BY:

CAD CODE: DWG\MX-63-1(AS-BUILT).DWG  
GRAPHIC SCALE: 0 40 80  
PROJECT NUMBER: MX-63-1

DRAWING NUMBER	REV.
C-101	D



	POINT NUMBER	ORIGINAL ELEVATION	EXCAVATED ELEVATION	FINAL ELEVATION	DEPTH (FEET)	ELEVATION CHANGE (ORIGINAL - FINAL)
1' EXC. TSCA	2170	979.8	978.7	979.8	1.1	---
	2182	979.5	978.4	979.5	1.1	---
	2183	979.6	978.5	979.5	1.1	+0.1
	2184	979.8	978.6	979.8	1.2	---
	2185	980.1	979.0	980.0	1.1	+0.1
	2186	979.8	978.7	979.8	1.1	---
	2213	980.4	979.1	980.4	1.3	---
	2214	981.4	980.3	981.3	1.1	+0.1
	2215	984.3	983.3	984.3	1.0	---
	2217	983.9	982.3	983.9	1.6	---
	2218	983.9	982.3	983.8	1.6	+0.1
	2219	979.9	978.6	979.8	1.3	+0.1
	2220	979.0	977.9	978.5	1.1	+0.5
	2230	984.2	982.7	984.2	1.5	---
	2231	984.7	983.6	984.6	1.1	+0.1
	2232	984.6	983.4	984.6	1.2	---
	2233	979.2	977.9	979.2	1.3	---
	2234	980.4	979.1	980.3	1.3	+0.1
	2238	979.8	978.4	979.8	1.4	---
	2267	986.6	983.1	986.6	3.5	---
	2314	988.5	987.1	988.4	1.4	+0.1
	2321	989.9	988.9	989.8	1.0	+0.1
	2322	990.0	988.4	990.0	1.6	---
	2323	990.1	988.5	990.1	1.6	---
	2327	990.1	988.9	990.1	1.2	---
	2332	989.8	987.8	989.7	2.0	+0.1
	2333	989.8	988.7	989.8	1.1	---
	2334	989.3	987.9	989.3	1.4	---
	2337	989.7	988.2	989.7	1.5	+0.1
	2632	989.2	987.8	989.2	1.4	---
	2633	989.1	987.8	989.1	1.3	---
	2634	989.0	987.7	989.0	1.3	---
	2635	989.7	988.6	989.6	1.1	+0.1
	2636	990.1	988.9	990.1	1.2	---
	2637	990.0	988.2	990.0	1.8	---
2638	989.5	988.4	989.5	1.1	---	
2639	989.5	988.2	989.5	1.3	---	
2644	989.0	987.8	989.0	1.2	---	
2645	989.2	988.5	989.2	1.7	---	
2646	987.8	986.3	987.8	1.5	---	
2647	987.9	986.7	987.9	1.2	---	
2648	988.7	987.5	988.7	1.2	---	
2649	989.1	987.8	989.0	1.3	+0.1	
2654	979.4	978.3	979.4	1.1	---	
2655	979.7	978.4	979.7	1.3	---	
2656	979.0	977.9	978.9	1.1	+0.1	
2657	979.0	978.0	979.0	1.0	---	
2658	978.8	977.8	978.8	1.0	---	
2659	984.1	983.1	984.1	1.0	---	
2660	985.7	984.5	985.7	1.2	---	
2661	984.5	983.5	984.5	1.0	---	
2662	985.2	984.0	985.1	1.2	+0.1	
2663	981.0	978.9	981.0	2.1	---	
2664	979.9	978.9	979.9	1.0	---	
2665	979.8	978.8	979.8	1.0	---	
2666	984.2	983.1	984.2	1.1	---	
2667	984.2	982.9	984.2	1.3	---	
2668*	973.0	972.9	973.6	0.1	-0.6	
2669*	972.3	972.3	974.9	0.0	-2.6	
2670	982.1	981.0	982.1	1.1	---	
2671	984.6	983.1	984.5	1.5	+0.1	
2672	986.9	984.1	986.9	2.8	---	
2673	982.9	980.9	982.9	2.0	---	
2674	979.9	978.6	979.9	1.3	---	
2675	975.3	974.3	975.3	1.0	---	
2676	973.1	972.0	973.0	1.1	+0.1	
2677	972.2	971.1	972.2	1.1	---	
2678	979.7	978.3	979.7	1.4	---	
2679	980.4	979.3	980.4	1.1	---	
2680	974.9	973.8	974.8	1.1	+0.1	
2681	973.3	972.3	973.3	1.0	---	
2682	980.5	978.9	980.5	1.6	---	

\* DENOTES POINTS AT EDGE OF WATER WHERE EXCAVATION WAS MINIMAL.

	POINT NUMBER	ORIGINAL ELEVATION	EXCAVATED ELEVATION	FINAL ELEVATION	DEPTH (FEET)	ELEVATION CHANGE (ORIGINAL - FINAL)
ELEV. 977 TSCA	1482	984.0	977.0	983.4	7.0	+0.6
	1535	984.0	977.0	983.4	7.0	+0.6
	1540	983.7	977.0	982.8	6.7	+0.9
	2617	984.3	977.0	983.8	7.3	+0.5
	2618	981.6	977.0	981.0	4.6	+0.6
	2619	982.1	977.0	981.6	5.1	+0.5
	2620	984.5	977.0	983.8	7.5	+0.7
	2621	985.0	977.0	984.4	8.0	+0.6
	2622	985.0	977.0	984.5	8.0	+0.5
	2700	984.8	977.0	984.3	7.8	+0.5
	2701	984.2	977.0	983.6	7.2	+0.6
	2702	984.2	977.0	983.7	7.2	+0.5
	2703	983.9	977.0	983.4	6.9	+0.5
	2704	983.8	976.9	983.3	6.9	+0.5
	2705	984.0	977.0	983.4	7.0	+0.6

	POINT NUMBER	ORIGINAL ELEVATION	EXCAVATED ELEVATION	FINAL ELEVATION	DEPTH (FEET)	ELEVATION CHANGE (ORIGINAL - FINAL)
EL. 989 TSCA	2600	992.1	988.9	991.9	3.2	+0.2
	2601	992.0	988.9	991.9	3.1	+0.1
	2602	992.1	988.9	992.1	3.2	---
	2603	992.2	989.0	992.2	3.2	---

	POINT NUMBER	ORIGINAL ELEVATION	EXCAVATED ELEVATION	FINAL ELEVATION	DEPTH (FEET)	ELEVATION CHANGE (ORIGINAL - FINAL)
1' NON-TSCA	1054	991.2	989.9	991.2	1.3	---
	1215	986.4	985.1	986.4	1.3	---
	2604	991.3	990.1	991.2	1.2	+0.1
	2605	990.6	989.5	990.6	1.1	---
	2606	987.2	986.1	987.2	1.1	---
	2607	988.2	987.2	988.1	1.0	+0.1
	2608	990.8	989.4	990.8	1.4	---
	2609	986.4	985.3	986.3	1.1	+0.1
	2610	985.9	984.7	985.9	1.2	---
	2611	985.9	984.8	985.8	1.1	+0.1
	2612	987.2	986.0	987.1	1.2	+0.1
	2613	990.4	989.3	990.4	1.1	---
	2614	990.3	989.3	990.3	1.0	---
	2615	990.2	989.2	990.2	1.0	---
	2616	990.4	989.2	990.4	1.2	---
	2624	984.0	982.2	984.0	1.8	---
	2625	976.2	974.2	976.0	2.0	+0.2
	2626	976.0	973.6	975.9	2.4	+0.1

	POINT NUMBER	ORIGINAL ELEVATION	EXCAVATED ELEVATION	FINAL ELEVATION	DEPTH (FEET)	ELEVATION CHANGE (ORIGINAL - FINAL)
3' EXC. NON-TSCA	1591	987.6	981.7	987.6	5.9	---
	1592	984.6	980.6	984.5	4.0	+0.1
	1602	983.6	978.8	983.6	4.8	---
	1603	976.5	971.7	976.4	4.8	+0.1
	1647	986.3	982.6	986.3	3.7	---
	2074	985.3	982.0	985.3	3.3	---
	2075	985.7	982.0	985.7	3.7	---
	2076	985.4	982.0	985.3	3.4	+0.1
	2077	984.5	981.4	984.4	3.1	+0.1
	2078	986.0	983.0	985.9	3.0	+0.1
	2079	986.3	983.3	986.3	3.0	---
	2088	988.1	984.3	988.1	3.8	---
	2089	988.2	983.2	988.1	5.0	+0.1
	2498	983.3	977.5	983.3	5.8	---
	2553	977.0	972.0	977.0	5.0	---
	2623	984.8	981.1	984.8	3.7	---
	2624	984.0	979.9	984.0	4.1	---
	2625	976.2	972.1	976.0	4.1	+0.2
	2627	974.7	971.6	974.6	3.1	+0.1
	2628	987.0	983.3	986.9	3.7	+0.1
	2629	986.0	983.0	986.0	3.0	---
	2630	986.7	983.6	986.6	3.1	+0.1
	2631	986.3	983.1	986.3	3.2	---

	POINT NUMBER	ORIGINAL ELEVATION	EXCAVATED ELEVATION	FINAL ELEVATION	DEPTH (FEET)	ELEVATION CHANGE (ORIGINAL - FINAL)
6' NON-TSCA	2158	991.5	985.3	991.5	6.2	---
	2159	988.7	981.0	988.6	7.7	+0.1
	2650	991.1	985.0	991.0	6.1	+0.1
	2651	991.4	985.3	991.3	6.1	+0.1
	2652	985.2	979.2	985.1	6.0	+0.1
	2653	982.3	976.0	982.2	6.3	+0.1

	POINT NUMBER	ORIGINAL ELEVATION	EXCAVATED ELEVATION	FINAL ELEVATION	DEPTH (FEET)	ELEVATION CHANGE (ORIGINAL - FINAL)
ELEV. 988 NON-TSCA	2370	991.6	987.8	991.5	3.8	+0.1
	2371	991.2	987.9	991.1	3.3	+0.1
	2372	990.6	987.9	990.5	2.7	+0.1
	2373	990.6	987.9	990.5	2.7	+0.1
	2374	990.6	988.0	990.6	2.6	---
	2376	990.6	987.9	990.6	2.7	---
	2377	991.0	987.9	991.0	3.1	---
	2640	990.3	987.8	990.3	2.5	---
	2641	990.3	988.0	990.2	2.3	+0.1
	2642	991.5	987.9	991.4	3.6	+0.1
	2643	991.2	987.9	990.6	3.3	+0.6
2686	990.8	987.9	990.8	2.9	---	

+ IN ELEVATION CHANGE DENOTES POTENTIAL INCREASE (GAIN) IN FLOOD STORAGE.  
- IN ELEVATION CHANGE DENOTES POTENTIAL DECREASE (LOSS) IN FLOOD STORAGE.

REV.	DESCRIPTION	DATE	DRN. CVD.
A	ISSUED FOR COMMENT	10-20-06	JJM
B	GENERAL REVISIONS	1-25-07	JR
C	REVISED POINT TABLES	12-17-07	JR
D	GENERAL REVISIONS, REVISED RIP RAP	3-4-08	JR

GENERAL ELECTRIC COMPANY, INC.  
159 PLASTICS AVENUE  
PITTSFIELD, MA  
DRAWING TITLE  
POINT TABLES  
OXBOWS J & K AREA

DRAWN BY: JJM  
DATE DRAWN: 10-20-06  
SCALE: N/A  
APV'D BY:

CAD CODE: DWG\MX-63-1(AS-BUILT).DWG  
GRAPHIC SCALE:  
PROJECT NUMBER: MX-63-1  
DRAWING NUMBER: C-102  
REV: D



ARCADIS

**Appendix D**

Bills of Lading for Transport of  
Excavated Soils to OPCAs

**TABLE D-1**  
**SUMMARY OF BILLS OF LADING FOR TRANSPORT OF EXCAVATED SOILS TO BUILDING 71 OR HILL 78 OPCA**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Date	Number of Loads	Destination
7/12/2006	24	Building 71 OPCA
7/13/2006	30	Building 71 OPCA
7/14/2006	27	Building 71 OPCA
7/19/2006	24	Building 71 OPCA
7/20/2006	23	Building 71 OPCA
7/21/2006	22	Hill 78 OPCA
7/24/2006	35	Hill 78 OPCA
7/25/2006	21	Hill 78 OPCA

Note:

- As described in Section 4.4 of this report, excavated soils were loaded directly into lined trucks for transportation to the appropriate On-Plant Consolidation Area (OPCA) located at GE's Pittsfield facility.

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLA

Carrier No. \_\_\_\_\_

Date 7-12-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street VENTURA AVE (OXBOW J&K)(K10-10-6)  
 City FITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361 491 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 <u>PK</u>			
		RECEIVED BY: DATE <u>7-12-06</u>	LOAD 2 <u>PK</u>			
		NAME: <u>Kevin Donald</u>	LOAD 3 <u>PK</u>			
		COMPANY: <u>DR Bellamy</u>	LOAD 4 <u>PK</u>			

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Paula G. Smith Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the part of the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID  except when box at right is checked  
 Check box if charges are to be collected

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bills of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER Paula G. Smith

PER Mell Smith

As Agent For GENERAL ELECTRIC COMPANY

DATE 7-12-06

1

494536-FW AMERICAN LABELMARK COMPANY CHICAGO, IL 60646

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLB

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

Date 7-12-06

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
Consignee

Street NEW YORK AVE (OPCA 71)

City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO

Street VENTURA AVE (OXBOW J&K)(K10-10-8)

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 29325 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ. POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 <input checked="" type="checkbox"/>			
			LOAD 2 <input checked="" type="checkbox"/>			
			LOAD 3 <input checked="" type="checkbox"/>			
			LOAD 4 <input checked="" type="checkbox"/>			
		RECEIVED BY: DATE <u>7/12/06</u>				
		NAME: <u>D-L 3 S</u>				
		COMPANY: <u>GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paolo Lijth*  
Signature

REMIT C.O.D. TO: ADDRESS

COD

Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT

TOTAL CHARGES \$

FREIGHT CHARGES  
FREIGHT PREPAID  Check box if charges are to be collect  
except when box at right is checked

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paolo Lijth*

PER *Larry Mason*

As Agent for GENERAL ELECTRIC COMPANY

DATE 7-12-06

1

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL C

Carrier No. \_\_\_\_\_

Date 7-12-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street VENTURA AVE (OXBOW J&K)(K10-10-6)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)484-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361498 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 CD			
			LOAD 2 CD			
			LOAD 3 CD			
			LOAD 4 CD			

RECEIVED BY: DATE 7-12-06  
 NAME Karen Oswald  
 COMPANY: P&B Bell

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 350, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paul J. Smith*  
 Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

*Paul J. Smith*  
 (Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID  Check box if charges are to be collect  
 COLLECT

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paul J. Smith*

PER *Paul J. Smith*

*Paul J. Smith*

DATE 7-12-06

1

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLD

Carrier No. \_\_\_\_\_

MAXYMILLIAN TECHNOLOGIES

Date 7-12-06

Page 1 of 1

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street VENTURA AVE (OXBOW J&K)(K10-10-6)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)484-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361500 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1			
		RECEIVED BY: DATE	LOAD 2			
		NAME: <u>Russ Christ</u>	LOAD 3			
		COMPANY: <u>DK Billing</u>	LOAD 4			

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC item 172.  
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Paul Lynch Signature

REMIT C.O.D. TO: ADDRESS

COD

Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT

TOTAL CHARGES \$

FREIGHT CHARGES

FREIGHT PREPAID except when box at night is checked

Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.  
 PER Paul Lynch  
As Agent for General Electric Company

CARRIER MAXYMILLIAN TECHNOLOGIES  
 PER [Signature]  
 DATE 7-12-06

1

494536-FW AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL E

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

Date 7-12-06

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street VENTURA AVE (OXBOW J&K)(K10-10-8)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)484-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361 498 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION	TOTAL QUANTITY	WEIGHT	RATE	CHARGES
		Proper Shipping Name, Hazard Class or UN or NA Number, Proper Shipping Name, UN or NA Number, Packing Group or Hazard Class, Packing Group	(Weight, Volume, Gallons, etc.)	(Subject to Correction)		(For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 <u>CO</u>			
		RECEIVED BY: DATE <u>7-12-06</u>	LOAD 2 <u>CO</u>			
		NAME: <u>Bern Oswald</u>	LOAD 3			
		COMPANY: <u>DR Billing</u>	LOAD 4			

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC item 172.  
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 380, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Paul J. Lynch Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination. If on its route, otherwise to deliver to another carrier on the route to said destination, it is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER Paul J. Lynch

PER MT Paul

As Agent For General Electric Company

DATE 7-12-06

1

494536-FW

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646

PRINTED ON RECYCLED PAPER WITH SOY INK

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLF

Carrier No. \_\_\_\_\_

Page 1 of 1

**MAXYMILLIAN TECHNOLOGIES**

Date 7-12-06

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
Consignee \_\_\_\_\_

FROM: Shipper GENERAL ELECTRIC CO

Street VENTURA AVE (OXBOW J&K)(K10-10-6)

Street NEW YORK AVE(OPCA 71)

City PITTSFIELD State MA Zip Code 01201

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number \_\_\_\_\_

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 <input checked="" type="checkbox"/>			
			LOAD 2 <input checked="" type="checkbox"/>			
			LOAD 3 _____			
			LOAD 4 _____			
		RECEIVED BY: DATE <u>7/12/06</u>				
		NAME: <u>J-L B. S.</u>				
		COMPANY: <u>GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paulo Lima* Signature

REMIT C.O.D. TO: ADDRESS

**COD** Amt: \$ \_\_\_\_\_

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$ \_\_\_\_\_

TOTAL CHARGES \$ \_\_\_\_\_

FREIGHT CHARGES  
FREIGHT PREPAID  Check box if charges are to be collect  
except when box at right is checked

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.  
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paulo Lima*

PER \_\_\_\_\_

As Agent for General Electric Company

DATE 7-12-06

1

494536-FW AMERICAN LABELMARK COMPANY CHICAGO, IL 60646



ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL 6

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

Date 7-12-06

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
Consignee

FROM: Shipper GENERAL ELECTRIC CO

Street: VENTURA AVE (OXBOW J&K)(K10-10-8)

Street: NEW YORK AVE(OPCA 71)

City: PITTSFIELD State: MA Zip Code: 01201

City: PITTSFIELD State: MA Zip Code: 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route: BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361500 ma

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1			
			LOAD 2			
			LOAD 3			
			LOAD 4			

RECEIVED BY: DATE 7-12-06  
NAME: Kenneth O'Connell  
COMPANY: NK Bellini

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Paul L. Boyd Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES: FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER Paul L. Boyd

PER D. Lemastrie

DATE 7-12-06

1

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL H

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

Date 7-12-06

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street VENTURA AVE (OXBOW J&K)(K10-10-6)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1			
		RECEIVED BY: DATE _____	LOAD 2			
		NAME: _____	LOAD 3			
		COMPANY: _____	LOAD 4			

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_."  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.  
 (3) Commodities requiring special or additional care or attention in handling or stowage must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/clearheaded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paul Lind* Signature

REMIT C.O.D. TO: ADDRESS \_\_\_\_\_

COD Amt: \$ \_\_\_\_\_

C.O.D. FEE: PREPAID  COLLECT  \$ \_\_\_\_\_

TOTAL CHARGES \$ \_\_\_\_\_

FREIGHT CHARGES: FREIGHT PREPAID  except when box at right is checked. Check box if charges are to be collect

(Signature of Consignor)

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.  
 Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.  
 PER *Paul Lind*  
 As Agent For General Electric Company

CARRIER MAXYMILLIAN TECHNOLOGIES  
 PER *M.W. [Signature]*  
 DATE 7-12-06

1

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLA

Carrier No. \_\_\_\_\_

Date 7-13-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street VENTURA AVE (OXBOW J&K)(K10-10-6)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361 500 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION: Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
<u>01 DT</u>	<u>Y</u>	<u>RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III</u>	<u>15 YRDS</u>	<u>20,000 KG</u>		
		<u>SOIL, BRUSH, DEBRIS, ERG#171</u>	<u>LOAD 1</u>			
			<u>LOAD 2</u>			
			<u>LOAD 3</u>			
			<u>LOAD 4</u>			

RECEIVED BY: DATE 7-13-06  
 NAME: Deborah Linn O'Neil  
 COMPANY: DH Bulfinch

PLACARDS TENDERED: YES  NO

Note -- (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.  
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Deborah Linn O'Neil Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

C.O.D. FEE: PREPAID  COLLECT  \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID  except when box at right is checked  
 Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bills of lading tariffs and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER Deborah Linn O'Neil

PER Deborah Linn O'Neil

As Agent for General Electric Company

DATE 7-12-06

1

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

PRINTED ON RECYCLED PAPER WITH 50% SOY INK

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLB

Carrier No. \_\_\_\_\_

Date 7-13-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street VENTURA AVE (OXBOW J&K)(K10-10-6)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 29325 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Packing Group Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 <input checked="" type="checkbox"/>			
			LOAD 2 <input checked="" type="checkbox"/>			
		RECEIVED BY: DATE <u>7/13/06</u>	LOAD 3 <input checked="" type="checkbox"/>			
		NAME: <u>State B...</u> (BBL)	LOAD 4 <input checked="" type="checkbox"/>			
		COMPANY: <u>As Agent for GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.  
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of item 350, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.  
Paolo L... Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.  
 \_\_\_\_\_  
 (Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID  Check box if charges are to be collect  
 except when box at right is checked

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the terms and conditions in the governing classification on the date of shipment.  
 Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.  
 PER Paolo L...  
As Agent for GENERAL ELECTRIC COMPANY

CARRIER MAXYMILLIAN TECHNOLOGIES  
 PER Larry Mason  
 DATE 7-13-06

1

AMERICAN LABELMARK COMPANY, CHICAGO, IL 60646 494536-FW

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLC

Carrier No. \_\_\_\_\_

Date 7-13-06

MAXYMILLIAN TECHNOLOGIES

Page 1 of 1

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

FROM: Shipper GENERAL ELECTRIC CO

TO: GENERAL ELECTRIC CO  
Consignee \_\_\_\_\_

Street VENTURA AVE (OXBOW J&K)(K10-10-6)

Street NEW YORK AVE(OPCA 71)

City PITTSFIELD State MA Zip Code 01201

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361491MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ. POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 <sup>310</sup> 1.26			
			LOAD 2 <sup>225</sup> 1.25			
		RECEIVED BY: DATE <u>7/13/06</u>	LOAD 3 <sup>100</sup> 1.00			
		NAME: <u>As agent of GE</u>	LOAD 4 <sup>1.45</sup> 1.45			
		COMPANY: <u>As agent of GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

REMIT C.O.D. TO: ADDRESS \_\_\_\_\_

COD Amt: \$ \_\_\_\_\_ C.O.D. FEE: PREPAID  COLLECT  \$ \_\_\_\_\_

TOTAL CHARGES \$ \_\_\_\_\_

FREIGHT CHARGES: FREIGHT PREPAID  except when box at right is checked. Check box if charges are to be collect

*Paulo P. Lijnt* Signature

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bills of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paulo P. Lijnt*

PER *M. D. Doherty*

*As Agent For GENERAL ELECTRIC COMPANY*

DATE 7-13-06

1

AMERICAN LABELMARK COMPANY CHICAGO, IL 60648 494536-FW

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLD

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

Date 7-13-06

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 436, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street VENTURA AVE (OXBOW J&K)(K10-10-6)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5359

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361-498MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Proper Shipping Name, UN or NA Number, Packing Group or Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RG. POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 AN 845			
			LOAD 2 AN 935			
			LOAD 3 AN 1125			
			LOAD 4 AN 1220			

RECEIVED BY: DATE 7-13-06  
 NAME: Karen Oswald  
 COMPANY: DL Belting

PLACARDS TENDERED: YES  NO

Note --- (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.  
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 390, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Paulo Lynt Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE:  
 PREPAID   
 COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID  except when box at right is checked  
 Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time indicated in all or any said property, that every service to be performed hereunder shall be subject to all the bills of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER Paulo Lynt

PER Alan Mittal

As Agent For LEONARD K. ROSS, JR.

DATE 7-13-06

1

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLE

Carrier No. \_\_\_\_\_

Date 7-13-06

MAXYMILLIAN TECHNOLOGIES

Page 1 of 1

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO: GENERAL ELECTRIC CO  
Consignee

Street NEW YORK AVE(OPCA 71)

City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO

Street VENTURA AVE (OXBOW J&K)(K10-10-6)

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361 498 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 <u>AN</u> 155			
			LOAD 2 <u>AN</u> 235			
			LOAD 3 <u>AN</u> 312			
		RECEIVED BY: DATE <u>7-13-06</u>				
		NAME: <u>Kim O'Connell</u>				
		COMPANY: <u>DK Billis</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 350, Bills of Lading, Freight Bills and Statements of Charges and Section 1(e) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paul Light* Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.  
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paul Light*

PER *Alan Nuttall*

*As Agent for General Electric Company*

DATE 7-13-06

1

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

SOY INK

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLF

Carrier No. \_\_\_\_\_

Date 7-13-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE (OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street VENTURA AVE (OXBOW J&K)(K10-10-8)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number MA 361491

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 <sup>1.5</sup> <sub>1.5</sub>			
			LOAD 2 <sub>2.0</sub>			
			LOAD 3 <sub>2.5</sub>			
			LOAD 4			

RECEIVED BY DATE 7/13/06  
 NAME: [Signature] (BBI)  
 COMPANY: As agent for GE

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

[Signature] Signature

REMIT C.O.D. TO: ADDRESS

COD

Amt: \$

C.O.D. FEE: PREPAID  COLLECT

TOTAL CHARGES \$

FREIGHT CHARGES

FREIGHT PREPAID  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER [Signature]

PER [Signature]

As Agent For General Electric Company

DATE 7-13-06

1

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

PRINTED ON RECYCLED PAPER WITH 50% SOY INK



ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL 6

Carrier No. \_\_\_\_\_

Date 7-13-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street VENTURA AVE (OXBOW J&K)(K10-10-8)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 29325 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 <input checked="" type="checkbox"/>			
			LOAD 2 <input checked="" type="checkbox"/>			
			LOAD 3 <input checked="" type="checkbox"/>			
			LOAD 4 <input checked="" type="checkbox"/>			
		RECEIVED BY: DATE <u>7/13/06</u>				
		NAME: <u>[Signature]</u> (BBL)				
		COMPANY: <u>As Agent for GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.  
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(e) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

[Signature] Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

C.O.D. FEE: PREPAID  COLLECT  \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination, if mutually agreed on to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER [Signature]

PER Larry Mason

[Signature]

DATE 7-13-06

1

494536-FW

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

BOY LINK

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL H

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

Date 7-13-06

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
Consignee \_\_\_\_\_  
Street NEW YORK AVE(OPCA 71)  
City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
Street VENTURA AVE (OXBOW J&K)(K10-10-6)  
City PITTSFIELD State MA Zip Code 01201  
24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE) Vehicle Number 361500 M9

No. of Units & Container Type	HM	BASIC DESCRIPTION	TOTAL QUANTITY	WEIGHT	RATE	CHARGES
		Proper Shipping Name, Hazard Class UN or NA Number, Proper Shipping Name, UN or NA Number, Packing Group or Hazard Class, Packing Group	(Weight, Volume, Gallons, etc.)	(Subject to Correction)		(For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 <u>1220</u>			
			LOAD 2 <u>1330</u>			
			LOAD 3 <u>1445</u>			
			LOAD 4 <u>1510S</u>			
		RECEIVED BY: DATE <u>7-13-06</u>				
		NAME: <u>Paulo Lopez</u>				
		COMPANY: <u>DL Building</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Paulo Lopez Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, or to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.  
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.  
PER Paulo Lopez  
AGENT FOR GENERAL ELECTRIC COMPANY

CARRIER MAXYMILLIAN TECHNOLOGIES  
PER Blamaster  
DATE 7-13-06

1

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646 494336-FW

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID IN THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLA

Carrier No. \_\_\_\_\_

Date 7-14-06

MAXYMILLIAN TECHNOLOGIES

Page 1 of 1

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec 1.

TO: GENERAL ELECTRIC CO  
Consignee \_\_\_\_\_

Street NEW YORK AVE (OPCA 71)

City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO

Street VENTURA AVE (OXBOW J&K)(K10-10-5)

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361498 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Packing Group or Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT Y		RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 AN 830			
			LOAD 2 AN 910			
			LOAD 3 AN 750			
			LOAD 4 AN 1100			

RECEIVED BY DATE 7/14/06  
NAME [Signature] (BRL)  
COMPANY: As agent for GE

PLACARDS TENDERED: YES  NO

REMIT C.O.D. TO: ADDRESS \_\_\_\_\_

COD Amt: \$ \_\_\_\_\_ C.O.D. FEE: PREPAID  COLLECT  \$ \_\_\_\_\_

TOTAL CHARGES \$ \_\_\_\_\_

FREIGHT CHARGES: FREIGHT PREPAID  except when box at right is checked. Check box if charges are to be collect

Note -- (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"  
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.  
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

[Signature] Signature

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.  
(Signature of Consignor)

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.  
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER [Signature]

PER Alan Mattall

As Agent for General Electric Company

DATE 7-14-06

1

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLB

Carrier No. \_\_\_\_\_

Date 7-14-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street VENTURA AVE (OXBOW J&K)(K10-10-6)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 29325MA

No. of Units & Container Type	HM	BASIC DESCRIPTION	TOTAL QUANTITY	WEIGHT	RATE	CHARGES
		Proper Shipping Name, Hazard Class UN or NA Number, Proper Shipping Name, UN or NA Number, Packing Group or Hazard Class, Packing Group	(Weight, Volume, Gallons, etc.)	(Subject to Correction)		(For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171				
		RECEIVED BY: DATE <u>7/14/06</u>				
		NAME: <u>[Signature]</u> (RBL)				
		COMPANY: <u>An agent for GE</u>				

PLACARDS TENDERED: YES  NO

Note -- (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.  
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

[Signature] Signature

REMIT C.O.D. TO: ADDRESS

COD

Am: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID  except when box at right is checked  
 Check box if charges are to be collected

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bills of lading forms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER [Signature]

PER [Signature]

1

As Agent for GENERAL ELECTRIC COMPANY

DATE 7-14-06

49-4336-FW

80646

AMERICAN LABEL MARK COMPANY - CHICAGO, IL

ISO 9001

ISO 14001

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLC

Carrier No. \_\_\_\_\_

Date 7-14-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in item 430, Sec.1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street VENTURA AVE (OXBOW J&K)(K10-10-6)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)484-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361-491 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 8.75			
			LOAD 2 9.30			
			LOAD 3 10.30			
			LOAD 4 11.20			

RECEIVED BY: DATE 7/14/06  
 NAME: [Signature]  
 COMPANY: Asengat & Co

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFCA Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

[Signature]  
 Signature

REMIT C.O.D. TO: ADDRESS

COD

Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE:  
 PREPAID   
 COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES

FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER [Signature]

PER [Signature]

As Agent for General Electric Company

DATE 7-14-06

1

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLD

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

Date 7-14-06

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street VENTURA AVE (OXBOW J&K)(K10-10-6)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361-498 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 AN 145			
			LOAD 2 AN 105			
			LOAD 3 AN 147			
			LOAD 4 AN 325			

RECEIVED BY: DATE 7/14/06  
 NAME: [Signature] (BBL)  
 COMPANY: As agent for GE

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

[Signature] Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER [Signature]

PER [Signature]

As Agent For GENERAL ELECTRIC COMPANY DATE 7-14-06

1

494536-FW

60848

AMERICAN LABELMARK COMPANY - CHICAGO, IL

ISO 9001

REGISTERED SERVICE MARK

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL E

Carrier No. \_\_\_\_\_

Date 7-14-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street VENTURA AVE (OXBOW J&K)(K10-10-6)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 29325 MA.

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III SOIL, BRUSH, DEBRIS, ERG#171	15 YRDS	20,000 KG		
		LOAD 1 <input checked="" type="checkbox"/>				
		LOAD 2 <input checked="" type="checkbox"/>				
		LOAD 3 <input checked="" type="checkbox"/>				
		LOAD 4 _____				

RECEIVED BY: DATE 7/14/06  
 NAME [Signature] (BR)  
 COMPANY: As Agent for GE

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 350, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

[Signature] Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this statement is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

[Signature] (Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID  except when box at right is checked  
 Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and delivered as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.  
 Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER [Signature]

PER [Signature]

As Agent for General Electric Company

DATE 7-14-06

1

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646

PRINTED ON RECYCLED PAPER WITH 50% POST CONSUMER WASTE

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLF

Carrier No. \_\_\_\_\_

Date 7-14-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street VENTURA AVE (OXBOW J&K)(K10-10-6)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)484-5359

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 367491 M9

No. of Units & Container Type	HM	BASIC DESCRIPTION	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1			
			LOAD 2			
			LOAD 3			
			LOAD 4			

RECEIVED BY DATE 7/14/06  
 NAME: [Signature] (BRL)  
 COMPANY: AS agent for GE

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC item 172.  
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

[Signature] Signature

REMIT C.O.D. TO: ADDRESS:

COD

Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the part of the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT

TOTAL CHARGES \$

FREIGHT CHARGES

FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER [Signature]

PER [Signature]

AS AGENT FOR GENERAL ELECTRIC COMPANY

DATE 7-14-06

1

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

ISO 9001

ISO 14001



ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL 6

Carrier No. \_\_\_\_\_

Date 7-14-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE (OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street VENTURA AVE (OXBOW J&K) (K10-10-8)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number \_\_\_\_\_

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
<u>01 DT</u>	<u>Y</u>	<u>RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III</u>	<u>15 YRDS</u>	<u>20,000 KG</u>		
		<u>SOIL, BRUSH, DEBRIS, ERG#171</u>	<u>LOAD 1</u>			
			<u>LOAD 2</u>			
			<u>LOAD 3</u>			
			<u>LOAD 4</u>			
		<u>RECEIVED BY: DATE</u>				
		<u>NAME:</u>				
		<u>COMPANY:</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paul Pignatelli*  
 Signature

REMIT C.O.D. TO: ADDRESS \_\_\_\_\_

COD Amt: \$ \_\_\_\_\_  
 C.O.D. FEE: PREPAID  COLLECT  \$ \_\_\_\_\_

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

TOTAL CHARGES \$ \_\_\_\_\_

FREIGHT CHARGES  
 FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paul Pignatelli*

PER \_\_\_\_\_

*As Agent For COLLEDAH ELECTRIC COMPANY*

DATE 7-14-06

1

494336-RW AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL H

Carrier No. \_\_\_\_\_

Date 7-14-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street VENTURA AVE (OXBOW J&K)(K10-10-8)  
 City FITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)484-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION	TOTAL QUANTITY	WEIGHT	RATE	CHARGES
		Proper Shipping Name, Hazard Class UN or NA Number, Proper Shipping Name, UN or NA Number, Packing Group or Hazard Class, Packing Group	(Weight, Volume, Gallons, etc.)	(Subject to Correction)		(For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL; BRUSH, DEBRIS, ERG#171 LOAD 1				
		LOAD 2				
		RECEIVED BY: DATE _____ LOAD 3				
		NAME: _____ LOAD 4				
		COMPANY: _____				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC item 172.  
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paul Flynn* Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the part of the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES

FREIGHT PREPAID  except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bills of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paul Flynn*

PER

1

As Agent for General Electric Company DATE 7-14-06

494536-FW

60646

CHICAGO, IL

AMERICAN LABELMARK COMPANY

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ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLI

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

Date 7-14-06

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
Consignee \_\_\_\_\_

FROM: Shipper GENERAL ELECTRIC CO

Street VENTURA AVE (OXBOW J&K)(K10-10-6)

Street NEW YORK AVE(OPCA 71)

City PITTSFIELD State MA Zip Code 01201

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)404-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number \_\_\_\_\_

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Packing Group or Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1			
			LOAD 2			
		RECEIVED BY: DATE	LOAD 3			
		NAME:	LOAD 4			
		COMPANY:				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paul P. Smith* Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
FREIGHT PREPAID  except when box at right is checked  
Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each center of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paul P. Smith*

PER \_\_\_\_\_

As Agent for General Electric Company

DATE 7-14-06

1

494536-FW

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646

PRINTED ON RECYCLED PAPER WITH 50% SOY INK

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL J

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

Date 7-14-06

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee  
 Street: NEW YORK AVE (OFCA 71)  
 City: PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street: VENTURA AVE (OXBOW J&K) (K10-10-8)  
 City: PITTSFIELD State MA Zip Cod@1201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 36149/MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Proper Shipping Name, UN or NA Number, Packing Group or Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
D1 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 <u>10:50</u>			
		RECEIVED BY: DATE <u>7/14/06</u>	LOAD 2			
		NAME: <u>[Signature]</u> (BBL)	LOAD 3			
		COMPANY: <u>As agent for GE</u>	LOAD 4			

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.  
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 350, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

[Signature] Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

[Signature] (Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.  
 PER [Signature]  
 As Agent For General Electric Company

CARRIER MAXYMILLIAN TECHNOLOGIES  
 PER [Signature]  
 DATE 7-14-06

1

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646

UNITED STATES OF AMERICA

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLA

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

Date 7-19-06

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street EAST ST PARCEL K10-11-3 (OXBOW J&K)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413) 494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361-500 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3492, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 CP			
			LOAD 2 CP			
		RECEIVED BY: DATE <u>6/19/06</u>	LOAD 3 CP			
		NAME: <u>D. B. S.</u>	LOAD 4 CP			
		COMPANY: <u>GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 330, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paul J. Lynch* Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.  
 Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paul J. Lynch*

PER *[Signature]*

As Agent for General Electric Company

DATE 7-19-06

1

494336-RW

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646

SDY 111

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLB

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

Date 7-19-06

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

FROM: Shipper GENERAL ELECTRIC CO

TO: GENERAL ELECTRIC CO  
Consignee \_\_\_\_\_

Street EAST ST PARCEL K10-11-3 (OXBOW J&K)

Street NEW YORK AVE (OPCA 71)

City PITTSFIELD State MA Zip Code 01201

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361 498 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Packing Group Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	13 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1			
			LOAD 2			
			LOAD 3			
			LOAD 4			

RECEIVED BY: DATE 7/19/06  
NAME: D.L.B.S.  
COMPANY: GE

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(e) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Paul Lynch Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES: FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bills of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER Paul Lynch

PER [Signature]

As Agent for General Electric Company

DATE 7-19-06

1

494536-FW

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

PRINTED ON RECYCLED PAPER WITH SOY INK

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL C

Carrier No. \_\_\_\_\_

Date 7-19-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
Consignee  
Street NEW YORK AVE(OPCA 71)  
City PITTSFIELD MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
Street EAST ST PARCEL K10-11-3 (OXBOW J&K)  
City PITTSFIELD State MA Zip Code 01201  
24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 29325MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Proper Shipping Name, UN or NA Number, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 ✓			
			LOAD 2 ✓			
		RECEIVED BY: DATE 7/19/06	LOAD 3 ✓			
		NAME: D-L B S	LOAD 4 ✓			
		COMPANY: GE				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"  
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.  
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 360, Bill of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.  
*Paulo L. Pinto* Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

C.O.D. FEE: PREPAID  COLLECT  \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

TOTAL CHARGES \$

FREIGHT CHARGES  
FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and dashed as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.  
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paulo L. Pinto*

PER *Larry Mason*

1

A. Agent For GENERAL ELECTRIC COMPANY

DATE 7-10-06

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646 484536-FW

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL -- NOT NEGOTIABLE

Shipper No. BOLD

Carrier No. \_\_\_\_\_

Date 7-19-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
Consignee \_\_\_\_\_

FROM: Shipper GENERAL ELECTRIC CO

Street EAST ST PARCEL K10-11-3 (OXBOW J&K)

Street NEW YORK AVE (OFCA 71)

City PITTSFIELD State MA Zip Code 01201

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5355

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361-491MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RG, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 AN 905			
			LOAD 2 AN 750			
			LOAD 3 AN 1045			
			LOAD 4 AN 35			
		RECEIVED BY: DATE <u>7/19/06</u>				
		NAME <u>D-L B</u>				
		COMPANY: <u>GE</u>				

PLACARDS TENDERED: YES  NO

Note -- (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paulo Pignatelli* Signature

REMIT TO: C.O.D. TO: ADDRESS

COD Amt: \$

C.O.D. FEE: PREPAID  COLLECT  \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

TOTAL CHARGES \$

FREIGHT CHARGES: FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the control) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paulo Pignatelli*

PER *Alan Mittal*

*As Agent for General Electric, Boston*

DATE 7-19-06

1

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

PRINTED ON RECYCLED PAPER USING SUSTAINABLE FORESTRY



ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLE

Carrier No. \_\_\_\_\_

Date 7-19-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters 'COD' must appear before consignee's name or as otherwise provided in item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE (OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street EAST ST PARCEL K10-11-3 (OXBOW J&K)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 29325MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RO, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 <input checked="" type="checkbox"/>			
			LOAD 2 <input checked="" type="checkbox"/>			
			LOAD 3 _____			
			LOAD 4 _____			
		RECEIVED BY: DATE <u>7/19/06</u>				
		NAME: <u>Dick B S</u>				
		COMPANY: <u>GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC item 172  
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paul J. Lynch*  
 Signature

REMIT C.O.D. TO ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time incurred in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.  
 Shipper hereby certifies that he is familiar with the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paul J. Lynch*

PER *Larry Mason*

DATE \_\_\_\_\_

DATE 7-19-06

1

494536-FW

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

PRINTED ON RECYCLED PAPER WITH 50% SOY INK

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLF

Carrier No. \_\_\_\_\_

Date 7-19-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
Consignee \_\_\_\_\_

FROM: Shipper GENERAL ELECTRIC CO

Street EAST ST PARCEL <sup>K10-11-2</sup> (OXBOW J&K)

Street NEW YORK AVE (OPCA 71)

City PITTSFIELD State MA Zip Code 01201

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 36149/MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Packing Group Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	29,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 AN 12.15			
			LOAD 2 AN 135			
		RECEIVED BY: DATE 7/19/06	LOAD 3 AN 245			
		NAME: D-L B C	LOAD 4			
		COMPANY: GE				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paul Lippert* Signature

REMIT C.O.D. TO: ADDRESS

COD

Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the part of the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
FREIGHT PREPAID  except when box at right is checked  
Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bills of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paul Lippert*

PER *Almer N. Mattal*

As Agent For General Electric Company

DATE 7-19-06

1

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646 494526-FW

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL 6

Carrier No. \_\_\_\_\_

Date 7-19-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1

TO: GENERAL ELECTRIC CO  
Consignee \_\_\_\_\_

Street NEW YORK AVE(OPCA 71)

City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO

Street EAST ST PARCEL K10-11-3 (OXBOW J&K)

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)484-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361 498 119

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Proper Shipping Name, UN or NA Number, Packing Group or Hazard Class, Packing Group --	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RG, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1			
			LOAD 2			
			LOAD 3			
			LOAD 4			

RECEIVED BY: DATE 7/19/06  
NAME: Dale B. St...  
COMPANY: GE

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paula Lynch*  
Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: "The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges."

(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES

FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time intended in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paula Lynch*

PER *Dale B. St...*

DATE 7-19-06

1

494536-FW

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL -- NOT NEGOTIABLE

Shipper No. BOL H

Carrier No. \_\_\_\_\_

Date 7-19-06

MAXYMILLIAN TECHNOLOGIES

Page 1 of 1

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item #30, Sec 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street EAST ST PARCEL <sup>K10-11-2</sup> R10-11-3 (OXBOW J&K)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361 500 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, UN or NA Number, Packing Group or UN or NA Number, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 <u>CP</u>			
			LOAD 2 <u>LP</u>			
		RECEIVED BY DATE <u>7/19/06</u>	LOAD 3			
		NAME: <u>D-L B S</u>	LOAD 4			
		COMPANY: <u>GE</u>				

PLACARDS TENDERED: YES  NO

Note -- (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(e) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paul Lynch*  
 Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

\_\_\_\_\_  
 (Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID  except when box at right is checked  
 Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination, if it is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paul Lynch*

PER *[Signature]*

DATE 7 19 06

1

494536-FW

AMERICAN LABELMARK COMPANY, CHICAGO, IL 60646

ISO 9001

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLA

Carrier No. \_\_\_\_\_

Date 7-20-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
Consignee

FROM: Shipper GENERAL ELECTRIC CO

Street EAST ST PARCEL K10-11-3 (OXBOW J&K)

Street NEW YORK AVE(OPCA 71)

City PITTSFIELD State MA Zip Code 01201

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361491 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Packing Group or Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	26,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 AN 805			
			LOAD 2 AN 914			
		RECEIVED BY: DATE 7/20/06	LOAD 3 AN 1040			
		NAME: <u>D-L B. S.</u>	LOAD 4 AN 1205			
		COMPANY: <u>GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_."

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Paula Spina Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interrelated in all or any said property, that every service to be performed hereunder shall be subject to all the bills of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER Paula Spina

PER \_\_\_\_\_

D. Spina for Maxymillian Technologies

DATE 7-20-06

1

494536-FW

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646

PRINTED OR REPRODUCED BY ANY MEANS WITHOUT PERMISSION OF THE LABELMARK COMPANY

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL B

Carrier No. \_\_\_\_\_

Date 7-20-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street EAST ST PARCEL K10-11-3 (OXBOW J&K)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 29325 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION	TOTAL QUANTITY	WEIGHT	RATE	CHARGES
		Proper Shipping Name, Hazard Class or UN or NA Number, Proper Shipping Name, UN or NA Number, Packing Group or Hazard Class, Packing Group	(Weight, Volume, Gallons, etc.)	(Subject to Correction)		(For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 <input checked="" type="checkbox"/>			
			LOAD 2 <input checked="" type="checkbox"/>			
		RECEIVED BY: DATE <u>7/20/06</u>	LOAD 3 <input checked="" type="checkbox"/>			
		NAME: <u>Dale B. Sy-</u>	LOAD 4 <input checked="" type="checkbox"/>			
		COMPANY: <u>GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.  
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable International and national governmental regulations.

*Paulo Lynch* Signature

REMIT C.O.D. TO: ADDRESS

COD

Amt: \$

C.O.D. FEE: PREPAID  COLLECT

TOTAL CHARGES \$

FREIGHT CHARGES

FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paulo Lynch*

PER *Larry Mason*

As Agent For GENERAL ELECTRIC COMPANY

DATE 7-20-06

1

494536-FW

80846

AMERICAN LABELMARK COMPANY CHICAGO, IL

ISO 9001

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL C

Carrier No. \_\_\_\_\_

Date 7-20-06

MAXYMILLIAN TECHNOLOGIES

Page 1 of 1

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
Consignee

FROM: Shipper GENERAL ELECTRIC CO

Street EAST ST PARCEL K10-11-3 (OXBOW J&K)

Street NEW YORK AVE(OPCA 71)

City PITTSFIELD State MA Zip Code 01201

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361-500MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 <u>CD</u>			
			LOAD 2 <u>CD</u>			
		RECEIVED BY: DATE <u>7/20/06</u>	LOAD 3 <u>CD</u>			
		NAME: <u>D-L B.</u>	LOAD 4 <u>CD</u>			
		COMPANY: <u>GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_.

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 350, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paula Lignett* Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assignee.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paula Lignett*

PER *MTB*

As Agent For General Electric Company

DATE 7-20-06

1

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

SOY INK

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. 381 D

Carrier No. \_\_\_\_\_

Date 7-20-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street EAST ST PARCEL K10-11-3 (OXBOW J&K)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361 498MA

No. of Units & Container Type	HM	BASIC DESCRIPTION	TOTAL QUANTITY	WEIGHT	RATE	CHARGES
		Proper Shipping Name, Hazard Class or UN or NA Number, Proper Shipping Name, UN or NA Number, Packing Group or Hazard Class, Packing Group	(Weight, Volume, Gallons, etc.)	(Subject to Correction)		(For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1			
		RECEIVED BY: DATE 7/20/06	LOAD 2			
		NAME: D-L B S	LOAD 3			
		COMPANY: GE	LOAD 4			

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paul Flint* Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paul Flint*

PER *P Demas*

As Agent for General Electric Company

DATE 7-20-06

1

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646





ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLF

Carrier No. \_\_\_\_\_

Date 7-20-06

Page 1 of 1

**MAXYMILLIAN TECHNOLOGIES**

(Name of carrier)

(SCAC)

On Collect or Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
Consignee \_\_\_\_\_  
Street NEW YORK AVE(OPCA 71)  
City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
Street EAST ST PARCEL K10-11-3 (OXBOW J&K)  
City PITTSFIELD State MA Zip Code 01201  
24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361491 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 <u>AM 235</u>			
		RECEIVED BY: DATE <u>7/20/06</u>	LOAD 2 _____			
		NAME: <u>D.L.B.S.</u>	LOAD 3 _____			
		COMPANY: <u>GE</u>	LOAD 4 _____			

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"  
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.  
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(e) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.  
*Paul Filippa* Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and delivered as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.  
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paul Filippa*

PER *Alan Nuttall*

*An Agent for General Electric Company*

DATE 7-20-06

1

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLG

Carrier No. \_\_\_\_\_

Date 7-20-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street EAST ST PARCEL K10-11-3 (OXBOW J&K)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 361 500 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 <u>CD</u>			
			LOAD 2 <u>CD</u>			
		RECEIVED BY: DATE <u>7/20/06</u>	LOAD 3 <u>CD</u>			
		NAME: <u>D-L B. Sr.</u>	LOAD 4 <u>CD</u>			
		COMPANY: <u>GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_."  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.  
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paul Lynch* Signature

REMIT C.O.D. TO: ADDRESS

COD

Am't: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE:  
 PREPAID   
 COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID except when box at right is checked   
 Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interposed in all or any said property, that every service to be performed hereunder shall be subject to all the bills of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.  
 PER *Paul Lynch*  
As Agent For General Electric Company

CARRIER MAXYMILLIAN TECHNOLOGIES  
 PER *[Signature]*  
 DATE 7-20-06

1

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646 494536-FW

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL H

Carrier No. \_\_\_\_\_

Date 7-20-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE(OPCA 71)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street EAST ST PARCEL K10-11-3 (OXBOW J&K)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 29325 MA.

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Packing Group or Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	Y	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III	15 YRDS	20,000 KG		
		SOIL, BRUSH, DEBRIS, ERG#171	LOAD 1 <input checked="" type="checkbox"/>			
			LOAD 2 <input checked="" type="checkbox"/>			
		RECEIVED BY: DATE <u>7/20/06</u>	LOAD 3			
		NAME: <u>D-L B. S.</u>	LOAD 4			
		COMPANY: <u>GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.  
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paul Lynch* Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$ \_\_\_\_\_  
 C.O.D. FEE: PREPAID  COLLECT  \$ \_\_\_\_\_

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

TOTAL CHARGES \$ \_\_\_\_\_

FREIGHT CHARGES  
 FREIGHT PREPAID  Check box if charges are to be collect  
 except when box at right is checked

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the facing terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the facing terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for NMS&I and his assigns.

SHIPPER GENERAL ELECTRIC CO.  
 PER *Paul Lynch*  
 No Agent for General Electric Company

CARRIER MAXYMILLIAN TECHNOLOGIES  
 PER *Larry Mason*  
 DATE 7-20-06

1

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

PRINTED ON RECYCLED PAPER USING SOY INK

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLA

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

Date 7-21-06

(Name of carrier)

(SCAC)

On Collect or Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sect. 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE (OPCA 78)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street EAST ST (OXBOW L&K)(K10-11-3, -2)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 63974MA

No. of Units & Container Type	HM	BASIC DESCRIPTION	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	NON-REGULATED MATERIAL	15 YRDS	20,000 KG		
		NON-REGULATED, NONE				
		SOIL, BRUSH, DEBRIS.	LOAD 1 <u>8:45</u>			
			LOAD 2 <u>10:00</u>			
			LOAD 3 <u>11:30</u>			
			LOAD 4 <u>13:00</u>			
		RECEIVED BY: DATE <u>7/21/06</u>				
		NAME: <u>DL BOST</u>				
		COMPANY: <u>GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_."  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.  
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Paolo Pignatelli Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID  Check box if charges are to be collected  
 except when box at right is checked

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and delivered as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.  
 Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.  
 PER Paolo Pignatelli  
AS AGENT FOR GENERAL ELECTRIC COMPANY

CARRIER MAXYMILLIAN TECHNOLOGIES  
 PER [Signature]  
 DATE 7-21-06

1

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

PRINTED ON RECYCLED PAPER WITH 50% SOY INK

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL B

Carrier No. \_\_\_\_\_

Page 1 of 1

**MAXYMILLIAN TECHNOLOGIES**

Date 7-21-06

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE (OPCA 78)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street EAST ST (OXBOW J&K)(K10-11-3, -2)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)484-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number E84304MA

No. of Units & Container Type	HM	BASIC DESCRIPTION	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	NON-REGULATED MATERIAL	15 YRDS	20,000 KG		
		NON-REGULATED, NONE				
		SOIL, BRUSH, DEBRIS.	LOAD 1 <u>7L</u> 8:55			
			LOAD 2 <u>2R</u>			
		RECEIVED BY: DATE <u>7/21/06</u>	LOAD 3 <u>10:24</u>			
		NAME: <u>D. B. S.</u>	LOAD 4 <u>11:46</u>			
		COMPANY: <u>GE</u>	<u>1:02</u>			

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_."  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.  
 (3) Commodities requiring special or additional care or attention in handling or slowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Paulo Pignatelli Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tanks in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.  
 Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER Paulo Pignatelli

PER \_\_\_\_\_

As Agent For General Electric Company

DATE 7-21-06

1

494536-FW

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646

PRINTED ON RECYCLED PAPER WITH 50% POST CONSUMER WASTE

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLC

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES  
(Name of carrier) (SCAC)

Date 7-21-06

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO: GENERAL ELECTRIC CO  
Consignee \_\_\_\_\_

FROM: Shipper GENERAL ELECTRIC CO

Street EAST ST (OXBOW J&K)(K10-11-3, -2)

Street NEW YORK AVE (OPCA 78)

City PITTSFIELD State MA Zip Code 01201

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 61948 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	NON-REGULATED MATERIAL	15 YRDS	20,000 KG		
		NON-REGULATED, NONE				
		SOIL, BRUSH, DEBRIS.				
		RECEIVED BY: DATE <u>7/21/06</u>	LOAD 1 <u>N.C. 9:10</u>			
		NAME: <u>D. B. Smith</u>	LOAD 2 <u>N.C. 10:54</u>			
		COMPANY: <u>GE</u>	LOAD 3 <u>N.C. 11:58</u>			
			LOAD 4 <u>N.C. 1:13</u>			

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_."

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Pablo Lijeth Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES

FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER Pablo Lijeth

PER Pat Ouellet

As Agent For General Electric Company

DATE 7-21-06

1

494536-FW  
 AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646  
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 SOY INK

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL E

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

Date 7-21-06

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
Consignee \_\_\_\_\_

FROM: Shipper GENERAL ELECTRIC CO

Street EAST ST (OXBOW J&K)(K10-11-3, -2)

Street NEW YORK AVE (OPCA 78)

City PITTSFIELD State MA Zip Code 01201

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number E88350

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	NON-REGULATED MATERIAL	15 YRDS	20,000 KG		
		NON-REGULATED, NONE				
		SOIL, BRUSH, DEBRIS. LOAD 1 <u>11.30</u>				
		LOAD 2 <u>2.15</u>				
		RECEIVED BY: DATE <u>7/20/06</u> LOAD 3 <u>3.10</u>				
		NAME: <u>Paul B. Lynch</u> LOAD 4 _____				
		COMPANY: <u>GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 350, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Paul B. Lynch Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER Paul B. Lynch

PER Jack Graven

AS AGENT FOR GENERAL ELECTRIC COMPANY

DATE 7-21-06

1

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ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLF

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

Date 7-21-06

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO: GENERAL ELECTRIC CO  
Consignee \_\_\_\_\_

FROM: Shipper GENERAL ELECTRIC CO

Street EAST ST (OXBOW J&K)(K10-11-3, -2)

Street NEW YORK AVE (OPCA 78)

City PITTSFIELD State MA Zip Code 01201

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 61948 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Proper Shipping Name, UN or NA Number, Packing Group or Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	NON-REGULATED MATERIAL	15 YRDS	20,000 KG		
		NON-REGULATED, NONE				
		SOIL, BRUSH, DEBRIS.	LOAD 1 <u>N/C</u> 2:05			
			LOAD 2 <u>N/C</u> 2:55			
		RECEIVED BY: DATE _____	LOAD 3 _____			
		NAME: _____	LOAD 4 _____			
		COMPANY: _____				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 380, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paula Slight* Signature

REMIT C.O.D. TO: ADDRESS

COD

Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES

FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any carrier or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paula Slight*

PER *Mato Chatterjee*

As Agent for General Electric Company

DATE 7-21-06

1

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ATTENTION SHIPPERS!

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# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL 6

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

Date 7-21-06

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_

Street NEW YORK AVE (OPCA 78)

City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO

Street EAST ST (OXBOW J&K)(K10-11-3, -2)

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-6358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 63974 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
<u>01 DT</u>	<u>N/A</u>	<u>NON-REGULATED MATERIAL</u>	<u>15 YRDS</u>	<u>20,000 KG</u>		
		<u>NON-REGULATED, NONE</u>				
		<u>SOIL, BRUSH, DEBRIS.</u>	<u>LOAD 1 1345</u>			
			<u>LOAD 2 1430</u>			
		<u>RECEIVED BY: DATE 7/21/06</u>	<u>LOAD 3</u>			
		<u>NAME: D-L BCS</u>	<u>LOAD 4</u>			
		<u>COMPANY: GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Paul J. Lynch Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination, it is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

PER Paul J. Lynch  
As Agent For General Electric Company

CARRIER MAXYMILLIAN TECHNOLOGIES

PER [Signature]

DATE 7-21-06

1

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646

ISO 9001

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL H

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

Date 7-21-06

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE (OPCA 78)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street EAST ST (OXBOW J&K)(K10-11-3, -2)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Packing Group Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
<u>01 DT</u>	<u>N/A</u>	<u>NON-REGULATED MATERIAL</u>	<u>1.5 YRDS</u>	<u>20,000 KG</u>		
		<u>NON-REGULATED, NONE</u>				
		<u>SOIL, BRUSH, DEBRIS.</u>	<u>LOAD 1</u>	<u>2.00</u>		
			<u>LOAD 2</u>	<u>2.41</u>		
		<u>RECEIVED BY: DATE 7/21/06</u>	<u>LOAD 3</u>			
		<u>NAME: D.L.B.C.</u>	<u>LOAD 4</u>			
		<u>COMPANY: GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_.

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 350, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Paul Lopez Signature

REMIT C.O.D. TO: ADDRESS

COD

Amt: \$

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES

FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assignee.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER Paul Lopez

PER

As Agent for General Electric Company

DATE 7-21-06

1

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ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLA

Carrier No. \_\_\_\_\_

Page 1 of 1

**MAXYMILLIAN TECHNOLOGIES**

Date 7-24-06

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE (OPCA 78)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street EAST ST (OXBOW J&K)(K10-11-3, -2)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 29325 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	NON-REGULATED MATERIAL	15 YRDS	20,000 KG		
		NON-REGULATED, NONE				
		SOIL, BRUSH, DEBRIS. LOAD 1 ✓				
		LOAD 2 ✓				
		RECEIVED BY: DATE <u>7-24-06</u> LOAD 3 ✓				
		NAME <u>Paulo F. Lignetti</u> LOAD 4 ✓				
		COMPANY: <u>BBL</u>				

PLACARDS TENDERED: YES  NO

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

C.O.D. FEE: PREPAID  COLLECT  \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

TOTAL CHARGES \$

FREIGHT CHARGES  
FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.  
*Paulo F. Lignetti* Signature

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.  
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paulo F. Lignetti*

PER *Lenny Mason*

As Agent For General Electric Company

DATE 7-24-06

1

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646 494536-FW

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLB

Carrier No. \_\_\_\_\_

Page 1 of 1

**MAXYMILLIAN TECHNOLOGIES**

Date 7-24-66

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
Consignee

Street NEW YORK AVE (OPCA 78)

City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO

Street EAST ST (OXBOW J&K)(K10-11-3, -2)

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 63974 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Proper Shipping Name, UN or NA Number, Packing Group or Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	NON-REGULATED MATERIAL	15 YRDS	20,000 KG		
		NON-REGULATED, NONE				
		SOIL, BRUSH, DEBRIS. LOAD 1				
		LOAD 2				
		RECEIVED BY: DATE 7-24-66 LOAD 3				
		NAME: <u>Robert Dupre</u> LOAD 4				
		COMPANY: <u>RR</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Robert Dupre Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.  
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER Robert Dupre

PER Robert Dupre

As Agent for General Electric Company

DATE 7-24-66

1

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646 494535-FW

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLC

Carrier No. \_\_\_\_\_

Page 1 of 1

**MAXYMILLIAN TECHNOLOGIES**

Date 7-24-06

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: **GENERAL ELECTRIC CO**  
Consignee

FROM: Shipper **GENERAL ELECTRIC CO**

Street **EAST ST (OXBOW J&K)(K10-11-3, -2)**

Street **NEW YORK AVE (OPCA 78)**

City **PITTSFIELD** State **MA** Zip Code **01201**

City **PITTSFIELD** State **MA** Zip Code **01201**

24 hr. Emergency Contact Tel. No. **(413)494-5358**

Route **BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)**

Vehicle Number **61948 MA**

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Packing Group Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	<b>NON-REGULATED MATERIAL</b>	<b>15 YRDS</b>	<b>20,000 KG</b>		
		<b>NON-REGULATED, NONE</b>				
		<b>SOIL, BRUSH, DEBRIS.</b>				
		LOAD 1 <i>N.C. 7:50</i>				
		LOAD 2 <i>N.C. 8:30</i>				
		LOAD 3 <i>N.C. 9:07</i>				
		LOAD 4 <i>N.C. 9:14</i>				
		RECEIVED BY: DATE <u>7-24-06</u>				
		NAME: <u>[Signature]</u>				
		COMPANY: <u>BBL</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paul Spitt* Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the disaffiliations and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and delivered as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER **GENERAL ELECTRIC CO.**

CARRIER **MAXYMILLIAN TECHNOLOGIES**

PER *Paul Spitt*

PER *[Signature]*

*As Agent for General Electric Company*

DATE 7-24-06

1

494536-FW

60646

AMERICAN LABELMARK COMPANY - CHICAGO, IL

PRINTED ON RECYCLED PAPER WITH 50% SOY INK

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL D

Carrier No. \_\_\_\_\_

Page 1 of 1

**MAXYMILLIAN TECHNOLOGIES**

Date 7-24-06

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO: **GENERAL ELECTRIC CO**  
 Consignee \_\_\_\_\_  
 Street **NEW YORK AVE (OPCA 78)**  
 City **PITTSFIELD** State **MA** Zip Code **01201**

FROM: Shipper **GENERAL ELECTRIC CO**  
 Street **EAST ST (OXBOW J&K)(K10-11-3, -2)**  
 City **PITTSFIELD** State **MA** Zip Code **01201**  
 24 hr. Emergency Contact Tel. No. **(413)494-5358**

Route **BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)**

Vehicle Number 18494

No. of Units & Container Type	HM	BASIC DESCRIPTION	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	<b>NON-REGULATED MATERIAL</b>	<b>15 YRDS</b>	<b>20,000 KG</b>		
		<b>NON-REGULATED, NONE</b>				
		<b>SOIL, BRUSH, DEBRIS.</b>	<b>LOAD 1 <u>R9</u></b>	<b>7.35</b>		
			<b>LOAD 2 <u>R9</u></b>	<b>8.15</b>		
			<b>LOAD 3 <u>R9</u></b>	<b>8.55</b>		
			<b>LOAD 4 <u>R9</u></b>	<b>9.30</b>		
		RECEIVED BY: DATE _____				
		NAME _____				
		COMPANY: _____				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 350, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Rob Gentile* Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.  
 Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER **GENERAL ELECTRIC CO.**

CARRIER **MAXYMILLIAN TECHNOLOGIES**

PER *Rob Gentile*

PER *Rob Gentile*

*As Agent for GENERAL ELECTRIC COMPANY*

DATE 7-24-06

1

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646

ISO LINK

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

BOL E

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. \_\_\_\_\_

Carrier No. \_\_\_\_\_

Date 7/24/06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
Consignee

Street NEW YORK AVE (OPCA 78)

City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO

Street EAST ST

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413) 484-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 18494

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	NON-REGULATED MATERIAL	YRDS	KG		
		NON-REGULATED, NONE				
		SOIL, BRUSH, DEBRIS.	LOAD 1 <u>Rg</u> 10.30			
			LOAD 2 <u>Rg</u> 11.40			
		RECEIVED BY: DATE _____	LOAD 3 <u>Rg</u> 12.55			
		NAME: _____	LOAD 4 <u>Rg</u> 1.25			
		COMPANY: _____				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NAFIC Item 172.

(3) Commodities requiring special or additional care or attention in handling or slowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 350, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable International and national governmental regulations.

puw Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER Peter Wagon

PER Ruth Gentle

DATE

1

AMERICAN LABEL MARK COMPANY - CHICAGO, IL 60646

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

BOL F

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. \_\_\_\_\_

Carrier No. \_\_\_\_\_

Date 7/24/06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

FROM: Shipper GENERAL ELECTRIC CO

TO: GENERAL ELECTRIC CO  
Consignee

Street EAST ST

Street NEW YORK AVE (OPCA 78)

City PITTSFIELD State MA Zip Code 01201

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)404-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number A65722 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	NON-REGULATED MATERIAL	YRDS	KG		
		NON-REGULATED, NONE				
		SOIL, BRUSH, DEBRIS. LOAD 1 <input checked="" type="checkbox"/>				
		LOAD 2 <input checked="" type="checkbox"/>				
		RECEIVED BY: DATE <u>7-24-06</u> LOAD 3				
		NAME <u>[Signature]</u> LOAD 4				
		COMPANY: <u>BBL</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged to ensure safe transportation. See Section 2(e) of Item 350, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable International and national governmental regulations.

[Signature] Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$ \_\_\_\_\_

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$ \_\_\_\_\_

TOTAL CHARGES \$ \_\_\_\_\_

FREIGHT CHARGES FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER [Signature]

PER [Signature]

DATE

1

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646

ISO 9001

PRINTED ON RECYCLED PAPER



\*ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

BOL G

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. \_\_\_\_\_

Carrier No. \_\_\_\_\_

Date 7/24/06

Page 1 of 1

**MAXYMILLIAN TECHNOLOGIES**

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: **GENERAL ELECTRIC CO**  
Consignee \_\_\_\_\_

Street **NEW YORK AVE (OPCA 78)**

City **PITTSFIELD** State **MA** Zip Code **01201**

FROM: Shipper **GENERAL ELECTRIC CO**

Street **EAST ST**

City **PITTSFIELD** State **MA** Zip Code **01201**

24 hr. Emergency Contact Tel. No. **(413)494-6358**

Route **BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)**

Vehicle Number **61948 MA**

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	<b>NON-REGULATED MATERIAL</b>	YRDS	KG		
		<b>NON-REGULATED, NONE</b>				
		<b>SOIL, BRUSH, DEBRIS.</b>				
		LOAD 1 <i>N/C</i> <b>6:40</b>				
		LOAD 2 <i>N/C</i> <b>11:32</b>				
		LOAD 3 <i>N/C</i> <b>12:00</b>				
		LOAD 4 <i>N/C</i> <b>1:25</b>				
RECEIVED BY: DATE <u>7-24-06</u>						
NAME <u>[Signature]</u>						
COMPANY: <u>GE</u>						

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependant on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 350, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

[Signature] Signature

REMIT C.O.D. TO: ADDRESS

**COD**

Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the part of the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT

TOTAL CHARGES \$

FREIGHT CHARGES

FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bills of lading terms and conditions in the governing classification on the date of shipment. Shipper hereby certifies that he is familiar with all the rating terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER **GENERAL ELECTRIC CO.**

CARRIER **MAXYMILLIAN TECHNOLOGIES**

PER Peter Wgeln

PER [Signature]  
DATE

1

AMERICAN LABEL MARK COMPANY - CHICAGO, IL 60646

PRINTED ON RECYCLED PAPER WITH 50% SOY INK

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

BOL H

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. \_\_\_\_\_

Carrier No. \_\_\_\_\_

Page 1 of 1

**MAXYMILLIAN TECHNOLOGIES**

Date 7/24/06

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: **GENERAL ELECTRIC CO**  
 Consignee \_\_\_\_\_  
 Street **NEW YORK AVE (OPCA 78)**  
 City **PITTSFIELD** State **MA** Zip Code **01201**

FROM: Shipper **GENERAL ELECTRIC CO**  
 Street **EAST ST**  
 City **PITTSFIELD** State **MA** Zip Code **01201**  
 24 hr. Emergency Contact Tel. No. **(413)494-5358**

Route **BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)**

Vehicle Number **63974 MG**

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	<b>NON-REGULATED MATERIAL</b>	<b>15 YRDS</b>	<b>20,000 KG</b>		
		<b>NON-REGULATED, NONE</b>				
		<b>SOIL, BRUSH, DEBRIS.</b>	<b>LOAD 1</b>			
			<b>LOAD 2</b>			
			<b>LOAD 3</b>			
			<b>LOAD 4</b>			
		RECEIVED BY: DATE <u>7-24-06</u>				
		NAME <u>[Signature]</u>				
		COMPANY: <b>BBL</b>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.  
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(e) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

PTW Signature

REMIT C.O.D. TO: ADDRESS

**COD**

Amt: \$

C.O.D. FEE:

PREPAID

COLLECT

\$

TOTAL CHARGES \$

FREIGHT CHARGES

FREIGHT PREPAID

except when box at right is checked

Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bills of lading terms and conditions in the governing classification on the date of shipment.  
 Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER **GENERAL ELECTRIC CO.**

CARRIER **MAXYMILLIAN TECHNOLOGIES**

PER Peter Wuser

PER [Signature]

DATE 7/24/06

1

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

UNITED STATES OF AMERICA - SHIPPER'S USE ONLY

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLI

Carrier No. \_\_\_\_\_

Page 1 of 1

**MAXYMILLIAN TECHNOLOGIES**

Date 7-24-06

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

FROM: Shipper GENERAL ELECTRIC CO

TO: GENERAL ELECTRIC CO  
Consignee \_\_\_\_\_

Street EAST ST (OXBOW J&K)(K10-11-3, -2)

Street NEW YORK AVE (OPCA 78)

City PITTSFIELD State MA Zip Code 01201

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 61948 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	NON-REGULATED MATERIAL	15 YRDS	20,000 KG		
		NON-REGULATED, NONE				
		SOIL, BRUSH, DEBRIS.	LOAD 1 N.C.L. 2/07			
			LOAD 2 N.C.L. 2/07			
		RECEIVED BY: DATE _____	LOAD 3 _____			
		NAME: _____	LOAD 4 _____			
		COMPANY: _____				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paul P. Lynch* Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$ \_\_\_\_\_

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$ \_\_\_\_\_

TOTAL CHARGES \$ \_\_\_\_\_

FREIGHT CHARGES: FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paul P. Lynch*

PER \_\_\_\_\_

*As Agent For General Electric Company*

DATE 7-24-06

1

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646

SOY INK

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL J

Carrier No. \_\_\_\_\_

Date 7-24-06

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec 1.

TO: GENERAL ELECTRIC CO  
Consignee \_\_\_\_\_

Street NEW YORK AVE (OPCA 78)

City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO

Street EAST ST (OXBOW J&K)(K10-11-3, -2)

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number \_\_\_\_\_

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	NON-REGULATED MATERIAL	15 YRDS	20,000 KG		
		NON-REGULATED, NONE				
		SOIL, BRUSH, DEBRIS. LOAD 1 <u>R.9</u>	2.00			
		LOAD 2 _____				
		RECEIVED BY: DATE _____	LOAD 3 _____			
		NAME: _____	LOAD 4 _____			
		COMPANY: _____				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 350, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paul Lipka* Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$ \_\_\_\_\_

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

\_\_\_\_\_  
(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT  \$ \_\_\_\_\_

TOTAL CHARGES \$ \_\_\_\_\_

FREIGHT CHARGES  
FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paul Lipka*

PER \_\_\_\_\_

As Agent For General Electric Company

DATE 7-24-06

1

AMERICAN LABELMARK COMPANY, CHICAGO, IL 60646

MADE IN U.S.A. SOY INK

\*ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLK

Carrier No. \_\_\_\_\_

Page 1 of 1

**MAXYMILLIAN TECHNOLOGIES**

Date 7-24-06

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

FROM: Shipper GENERAL ELECTRIC CO

TO: GENERAL ELECTRIC CO  
Consignee \_\_\_\_\_

Street EAST ST (OXBOW J&K)(K10-11-3, -2)

Street NEW YORK AVE (OPCA 78)

City PITTSFIELD State MA Zip Code 01201

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 63974 M9

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	NON-REGULATED MATERIAL	15 YRDS	20,000 KG		
		NON-REGULATED, NONE				
		SOIL, BRUSH, DEBRIS. LOAD 1	14.45			
		LOAD 2	15.25			
		RECEIVED BY: DATE <u>7-24-06</u> LOAD 3				
		NAME: <u>[Signature]</u> LOAD 4				
		COMPANY: <u>BBL</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

[Signature] Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$ \_\_\_\_\_

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$ \_\_\_\_\_

TOTAL CHARGES \$ \_\_\_\_\_

FREIGHT CHARGES  
FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.  
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER [Signature]

PER [Signature]

DATE 7-24-06

DATE 7-24-06

1

494536-RV  
AMERICAN LABEL MARK COMPANY CHICAGO, IL 60648

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLA

Carrier No. \_\_\_\_\_

Page 1 of 1

**MAXYMILLIAN TECHNOLOGIES**

Date 7-25-06

(Name of carrier) (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

FROM: Shipper GENERAL ELECTRIC CO

TO: GENERAL ELECTRIC CO  
Consignee \_\_\_\_\_

Street EAST ST (OXBOW J&K)(K10-11-3, -2)

Street NEW YORK AVE (OPCA 78)

City PITTSFIELD State MA Zip Code 01201

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 63974 M9

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	NON-REGULATED MATERIAL	15 YRDS	20,000 KG		
		NON-REGULATED, NONE				
		SOIL, BRUSH, DEBRIS.	LOAD 1 <u>8:25</u>			
			LOAD 2 <u>9:00</u>			
			LOAD 3 <u>9:40</u>			
			LOAD 4 <u>11:00</u>			
		RECEIVED BY: DATE <u>7/25/06</u>				
		NAME: <u>[Signature]</u> (RBI)				
		COMPANY: <u>As agent for GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFCA Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

[Signature] Signature

REMIT C.O.D. TO: ADDRESS

**COD** Amt: \$ \_\_\_\_\_

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$ \_\_\_\_\_

TOTAL CHARGES \$ \_\_\_\_\_

FREIGHT CHARGES  
FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

(Signature of Consignor)

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and delivered as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.  
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assignee.

SHIPPER GENERAL ELECTRIC CO.

PER [Signature]

As Agent for LOCALIZED ELECTRIC COMPANY

CARRIER MAXYMILLIAN TECHNOLOGIES

PER [Signature]

DATE 7-25-06

1

494536-FW AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL B

Carrier No. \_\_\_\_\_

Page 1 of 1

**MAXYMILLIAN TECHNOLOGIES**

Date 7-25-06

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

FROM: Shipper GENERAL ELECTRIC CO

TO: GENERAL ELECTRIC CO  
Consignee \_\_\_\_\_

Street EAST ST (OXBOW J&K)(K10-11-3, -2)

Street NEW YORK AVE (OPCA 78)

City PITTSFIELD State MA Zip Code 01201

City PITTSFIELD State MA Zip Code 01201

24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 18494

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	NON-REGULATED MATERIAL	15 YRDS	20,000 KG		
		NON-REGULATED, NONE				
		SOIL, BRUSH, DEBRIS. LOAD 1 <u>R-9</u>	8.35			
		LOAD 2 <u>R-9</u>	9.15			
		RECEIVED BY: DATE _____ LOAD 3 <u>R-9</u>	9.57			
		NAME _____ LOAD 4 <u>R-9</u>	11.26			
		COMPANY: _____				

PLACARDS TENDERED: YES  NO

REMIT C.O.D. TO: ADDRESS \_\_\_\_\_

COD Amt: \$ \_\_\_\_\_

C.O.D. FEE: PREPAID  COLLECT  \$ \_\_\_\_\_

TOTAL CHARGES \$ \_\_\_\_\_

FREIGHT CHARGES  
FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

Note -- (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paulo J. Pignatelli* Signature

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER *Paulo J. Pignatelli*

PER *Ruch Gentile*

*De Agent For General Electric Company*

DATE 7-25-06

1

494536-FW AMERICAN LABELMARK COMPANY CHICAGO, IL 60646

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLC

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

Date 7-25-06

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: GENERAL ELECTRIC CO  
 Consignee  
 Street NEW YORK AVE (OPCA 78)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street EAST ST (OXBOW J&K)(K10-11-3, -2)  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number E86.350

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	NON-REGULATED MATERIAL	15 YRDS	20,000 KG		
		NON-REGULATED, NONE				
		SOIL, BRUSH, DEBRIS. LOAD 14.48				
		LOAD 29.20				
		RECEIVED BY: DATE 7/25/06 LOAD 3:10:53				
		NAME: <u>[Signature]</u> LOAD 4 11:50				
		COMPANY: <u>As agent for GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"  
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.  
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

[Signature]  
 Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.  
 Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER [Signature]

PER [Signature]

As Agent for General Electric Company

DATE 7-25-06

1

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646

UNITED STATES GOVERNMENT PRINTING OFFICE: 2004 O-307148



ATTENTION SHIPPERS!

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# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOLE

Carrier No. \_\_\_\_\_

Page 1 of 1

**MAXYMILLIAN TECHNOLOGIES**

Date 7-25-06

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: **GENERAL ELECTRIC CO**  
Consignee \_\_\_\_\_

FROM: Shipper **GENERAL ELECTRIC CO**

Street **EAST ST (OXBOW J&K)(K10-11-3, -2)**

Street **NEW YORK AVE (OPCA 78)**

City **PITTSFIELD** State **MA** Zip Code **01201**

City **PITTSFIELD** State **MA** Zip Code **01201**

24 hr. Emergency Contact Tel. No. **(413)484-5358**

Route **BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)**

Vehicle Number 18494

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	<b>NON-REGULATED MATERIAL</b>	<b>.15 YRDS</b>	<b>20,000 KG</b>		
		<b>NON-REGULATED, NONE</b>				
		<b>SOIL, BRUSH, DEBRIS.</b>	<b>LOAD 1 <u>11.45</u></b>			
			<b>LOAD 2 <u>12.55</u></b>			
		RECEIVED BY: DATE _____	LOAD 3 _____			
		NAME: _____	LOAD 4 _____			
		COMPANY: _____				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 350, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paula Spina* Signature

REMIT C.O.D. TO: ADDRESS

**COD** Amt: \$ \_\_\_\_\_ C.O.D. FEE: PREPAID  COLLECT  \$ \_\_\_\_\_

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

TOTAL CHARGES \$ \_\_\_\_\_

FREIGHT CHARGES  
FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER **GENERAL ELECTRIC CO.**  
PER *Paula Spina*  
**As Agent For GENERAL ELECTRIC COMPANY**

CARRIER **MAXYMILLIAN TECHNOLOGIES**  
PER *Ruth Gentile*  
DATE **7-25-06**

1

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CHICAGO, IL

AMERICAN LABELMARK COMPANY

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# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BGLF

Carrier No. \_\_\_\_\_

Page 1 of 1

**MAXYMILLIAN TECHNOLOGIES**

Date 7-25-06

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: **GENERAL ELECTRIC CO**  
Consignee \_\_\_\_\_

Street **NEW YORK AVE (OPCA 78)**

City **PITTSFIELD** State **MA** Zip Code **01201**

FROM: Shipper **GENERAL ELECTRIC CO**

Street **EAST ST (OXBOW J&K)(K10-11-3, -2)**

City **PITTSFIELD** State **MA** Zip Code **01201**

24 hr. Emergency Contact Tel. No. **(413)494-5358**

Route **BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)**

Vehicle Number 6397419

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	<b>NON-REGULATED MATERIAL</b>	<b>15 YRDS</b>	<b>29,000 KG</b>		
		<b>NON-REGULATED, NONE</b>				
		<b>SOIL, BRUSH, DEBRIS.</b>	<b>LOAD 1 11:30</b>			
			<b>LOAD 2 12:30</b>			
			<b>LOAD 3 13:40</b>			
		<b>RECEIVED BY: DATE 7/25/06</b>				
		<b>NAME: [Signature]</b>				
		<b>COMPANY: As agent for GE</b>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paulo [Signature]* Signature

REMIT C.O.D. TO: ADDRESS

**COD**

Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT

TOTAL CHARGES \$

FREIGHT CHARGES

FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER **GENERAL ELECTRIC CO.**

CARRIER **MAXYMILLIAN TECHNOLOGIES**

PER *Paulo [Signature]*

PER *[Signature]*

*As Agent For General Electric Company*

DATE 7-25-06

1

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AMERICAN LABELMARK COMPANY - CHICAGO, IL

5074 MK

UNION ZYKAWA

5074 MK

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# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL 6

Carrier No. \_\_\_\_\_

Page 1 of 1

MAXYMILLIAN TECHNOLOGIES

Date 7-25-06

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO: GENERAL ELECTRIC CO  
 Consignee \_\_\_\_\_  
 Street NEW YORK AVE (OPCA 78)  
 City PITTSFIELD State MA Zip Code 01201

FROM: Shipper GENERAL ELECTRIC CO  
 Street EAST ST OXBOW J&K PARCEL ID(  
 City PITTSFIELD State MA Zip Code 01201  
 24 hr. Emergency Contact Tel. No. (413)494-5358

Route BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)

Vehicle Number 29325 MA

No. of Units & Container Type	HM	BASIC DESCRIPTION	TOTAL QUANTITY	WEIGHT	RATE	CHARGES
		Proper Shipping Name, Hazard Class or UN or NA Number, Proper Shipping Name, UN or NA Number, Packing Group or Hazard Class, Packing Group	(Weight, Volume, Gallons, etc.)	(Subject to Correction)		(For Carrier Use Only)
01 DT	N/A	NON-REGULATED MATERIAL	15 YRDS	20,000 KG		
		NON-REGULATED, NONE				
		SOIL, BRUSH, DEBRIS. LOAD 1 ✓				
		LOAD 2 ✓				
		RECEIVED BY: DATE 7/25/06 LOAD 3 ✓				
		NAME: <u>[Signature]</u> (BBL) LOAD 4				
		COMPANY: <u>As agent for GE</u>				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"  
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 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

[Signature] Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID  COLLECT  \$

TOTAL CHARGES \$

FREIGHT CHARGES  
 FREIGHT PREPAID  Check box if charges are to be collect  
 except when box at right is checked

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to

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Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assignee.

SHIPPER GENERAL ELECTRIC CO.

CARRIER MAXYMILLIAN TECHNOLOGIES

PER [Signature]

PER [Signature]

As Agent for General Electric Company

DATE 7-25-06

1

AMERICAN LABELMARK COMPANY CHICAGO, IL 60646

PREVENTION OF HAZARDOUS MATERIAL SOY INK

ATTENTION SHIPPERS!

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# STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. BOL H

Carrier No. \_\_\_\_\_

Page 1 of 1

**MAXYMILLIAN TECHNOLOGIES**

Date 7-25-06

(Name of carrier)

(SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: **GENERAL ELECTRIC CO**  
 Consignee \_\_\_\_\_  
 Street **NEW YORK AVE (OPCA 78)**  
 City **PITTSFIELD** State **MA** Zip Code **01201**

FROM: Shipper **GENERAL ELECTRIC CO**  
 Street **EAST ST OXBOW J&K PARCEL ID**  
 City **PITTSFIELD** State **MA** Zip Code **01201**  
 24 hr. Emergency Contact Tel. No. **(413)484-5358**

Route **BEST AVAILABLE - (INTERPLANT WHENEVER POSSIBLE)**

Vehicle Number EgS:330

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class or UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
01 DT	N/A	NON-REGULATED MATERIAL	15 YRDS	20,000 KG		
		NON-REGULATED, NONE				
		SOIL, BRUSH, DEBRIS. LOAD 1A PM				
		LOAD 2 _____				
		RECEIVED BY: DATE _____ LOAD 3 _____				
		NAME _____ LOAD 4 _____				
		COMPANY: _____				

PLACARDS TENDERED: YES  NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_"

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See MMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 350, B's of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

*Paulo Aguiar* Signature

REMIT C.O.D. TO: ADDRESS \_\_\_\_\_

**COD** Amt: \$ \_\_\_\_\_

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

G.O.D. FEE: PREPAID  COLLECT  \$ \_\_\_\_\_

TOTAL CHARGES \$ \_\_\_\_\_

FREIGHT CHARGES: FREIGHT PREPAID except when box at right is checked  Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

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Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER **GENERAL ELECTRIC CO.**

CARRIER **MAXYMILLIAN TECHNOLOGIES**

PER *Paulo Aguiar*

PER *Jack Oravon*

*As Agent For General Electric Company*

DATE 7-25-06

1

AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646

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**Appendix E**

*Ambient Air Monitoring for  
Polychlorinated Biphenyls and  
Particulate Matter Former Oxbow  
Areas J and K (Berkshire  
Environmental Consultants, Inc.,  
November 2006)*

**AMBIENT AIR MONITORING  
FOR  
POLYCHLORINATED BIPHENYLS  
AND  
PARTICULATE MATTER  
FORMER OXBOW AREAS J & K  
CALENDAR YEAR 2006**

**GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS**

**AMBIENT AIR MONITORING FOR  
POLYCHLORINATED BIPHENYLS  
AND PARTICULATE MATTER**

**SOIL REMEDIATION ACTIVITIES  
FORMER OXBOW AREAS J AND K**

**GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS**

Prepared by

Berkshire Environmental Consultants, Inc.  
1450 East Street, Suite 10B  
Pittsfield, Massachusetts

November 2006

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  - 2.2 Sampler Locations
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- III Scope of Work
- IV Method TO-4A
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## PROJECT SUMMARY

Berkshire Environmental Consultants, Inc. (BEC) completed an ambient air sampling program for polychlorinated biphenyls (PCB) and particulate matter during soil remediation actions at the Former Oxbow Areas J and K in Pittsfield, MA. Air sampling was conducted during soil remediation activities from July 12 through July 28, 2006. The ambient air sampling program was conducted in accordance with the Scope of Work for Ambient Air PCB & Particulate Monitoring at the Former Oxbow Areas J and K, General Electric Company, Pittsfield, Massachusetts, prepared by Berkshire Environmental Consultants, Inc., September 2005, revised March 2006.

Prior to soil remediation, high-volume sampling for PCBs was conducted at three on-site locations and one background location from July 6-7, 2006 and from July 8-9, 2006. During soil remediation, high-volume sampling for PCBs was conducted at three on-site locations and one background location during the period of July 13-14, 2006. Each PCB ambient air sample was collected over a 24-hour period. Sampling and analytical procedures generally followed those described in EPA Compendium Method TO-4A, Determination of Pesticides and Polychlorinated Biphenyls in Ambient Air Using High Volume Polyurethane Foam (PUF) Sampling Followed by Gas Chromatographic/Multi-Detector Detection (GC/MD), January 1999. This method employs a modified high-volume sampler consisting of a glass fiber filter with a polyurethane foam backup adsorbent cartridge. Samples were sent to SGS Environmental Services, Inc., Wilmington, North Carolina, for analysis.

The PCB sampling periods, results and concentration averages are presented in Appendix I. The highest PCB concentration analyzed for any of the sampling periods during the site remediation work was  $0.0051 \mu\text{g}/\text{m}^3$  measured on July 13-14, 2006 at site J5. The PCB notification level of  $0.05 \mu\text{g}/\text{m}^3$  was not reached during the study at any of the monitored sites.

Particulate monitoring was conducted daily for approximately ten hours per day on those days when soil remediation was occurring during the period of July 12 through July 28, 2006. Monitoring locations varied depending on the progression of site activities. Particulate monitoring was conducted at one to four on-site locations, depending on the extent of site work, and one background location. Monitoring was conducted using a combination of MIE dataRAM Model DR-2000/4000 monitors and MIE dataRAM Model pDR-1000 monitors. Particulate monitoring results are contained in Appendix II.

The highest average daily particulate concentration recorded during soil remediation was  $0.101 \text{mg}/\text{m}^3$  on July 27, 2006 at the J4 location. The notification level for particulate matter of  $0.120 \text{mg}/\text{m}^3$  was not reached during the study at any of the monitored sites.

## 1.0 INTRODUCTION

Berkshire Environmental Consultants, Inc. (BEC) was retained by General Electric Company (GE) to conduct ambient air sampling for polychlorinated biphenyls (PCB) and particulate matter during soil remediation activities at the Former Oxbow Areas J and K in Pittsfield, MA. Remediation activity took place at Parcels K10-13-1, K10-11-1, K10-11-2, and K10-11-3 on the north side of the Housatonic River and Parcel K10-10-5 on the south side of the Housatonic River in Pittsfield, Massachusetts. These properties are located south of East Street on the north side of the Housatonic River, and northeast of Ventura Avenue on the south side of the Housatonic River in Pittsfield, Massachusetts. The sampling described in this report was completed during the period of July 12 through July 28, 2006.

The purpose of the sampling program was to obtain valid and representative data on ambient levels of PCB and particulate matter around the Former Oxbow Areas J and K before and during soil remediation activities to ensure that site activities were not causing an unacceptable increase in ambient concentrations of total PCB or particulates. The sampling project was conducted in accordance with criteria set forth in the Scope of Work for Ambient Air PCB & Particulate Monitoring at the Former Oxbow Areas J and K, General Electric Company, Pittsfield, Massachusetts, prepared by Berkshire Environmental Consultants, Inc., September 2005, revised March 2006. The Scope of Work is presented in Appendix III of this report.

All field work, sample collection, sample shipment, and record keeping were completed by BEC, Pittsfield, Massachusetts. The collected PCB samples were analyzed by SGS Environmental Services, Inc., Wilmington, North Carolina. This final report for the ambient air sampling program presents a summary of all sampling activities, analytical results, and quality assurance/quality control measures.

## 2.0 PCB SAMPLING

### 2.1 Sampling Program

A summary of the PCB ambient air sampling program for the Former Oxbow Areas J and K follows:

High-Volume Monitoring Locations	3
Co-located Sites	1
Background Sites	1
Sampling Time	24 hours per sampling event
Sampling Period	July 6-7, 2006 (prior to remediation) July 8-9, 2006 (prior to remediation) July 13-14, 2006 (during remediation)
Number of Sampling Events	3
Number of Samples	15
Number of Blanks	1 per sampling event
Sampling Method	EPA Compendium Method TO-4A
Analytical Method	GC/ECD or GC/MS as described in EPA Method TO-4A
Written Notification Level	0.05 $\mu\text{g}/\text{m}^3$
Action Level	0.10 $\mu\text{g}/\text{m}^3$

### 2.2 Sampler Locations

The PCB ambient air sampling program was conducted using General Metal Works GPS-1 high-volume air samplers at three on-site locations: one north of the Housatonic River to the south of Parcel K10-11-2 (J3), one north of the Housatonic River to the southeast of Parcel K10-11-3 (J5), and one south of the Housatonic River to the south of Parcel K10-10-5 (K1). A fourth co-located sampler was placed at the J3 sampling location during the two events prior to soil remediation as well as during remediation activity. This co-located monitor ran concurrent with the primary monitor and provided a precision check on collected data.

In addition to the on-site sampling locations, a fifth sampler was operated to provide background data. The background monitoring station was located on GE-owned property in a residential location on Longfellow Avenue in Pittsfield, MA (BB). The locations of the monitoring stations are presented in Figure 1.

### 2.3 Sampling Procedures

The sampling program consisted of a total of three 24-hour sampling events that occurred on the following days: July 6-7, July 8-9, and July 13-14, 2006. The PCB ambient air samples were collected according to the U.S. EPA Compendium Method TO-4A, Determination of Pesticides and Polychlorinated Biphenyls in Ambient Air Using High

Volume Polyurethane Foam (PUF) Sampling Followed by Gas Chromatographic/Multi-Detector Detection (GC/MD), (Appendix IV). This method employs a General Metal Works GPS-1 modified high-volume sampler consisting of a glass fiber filter with a polyurethane foam (PUF) backup adsorbent cartridge. The GPS-1 Operator's Manual is included in Appendix VI. Ambient air was drawn through the cartridge at a rate of approximately 0.225 m<sup>3</sup>/min for 24 hours. The total air volume collected for each sample was approximately 324 cubic meters.

The samplers were monitored at six-hour intervals over each 24-hour sampling period. During these six-hour checks, barometric pressure, temperature, and magnehelic pressure readings were taken and the air flow adjusted to the target flow rate, as necessary. At the end of the sampling period, the sampling modules containing the fiber filters and PUF adsorbents were removed from the samplers. Each glass fiber filter was folded and placed on the PUF adsorbent for that sample. Each sample consisting of a fiber filter and PUF adsorbent (inside a glass cartridge) was wrapped in hexane rinsed aluminum foil. Each fiber filter and PUF adsorbent set was labeled as one sample. The samples were wrapped, packaged in a cooler with ice and sent under chain-of-custody to the laboratory for analysis.

## 2.4 Analytical Procedures

The PCB in the samples was recovered in accordance with procedures contained in Method TO-4A. The extracts were concentrated and subjected to column chromatograph cleanup. The extracts were analyzed for PCB using gas chromatography with electron capture detection (GC-ECD).

SGS Environmental Services, Inc. analyzed the samples for the following individual PCB Aroclors:

PCB Aroclor 1016	PCB Aroclor 1248
PCB Aroclor 1221	PCB Aroclor 1254
PCB Aroclor 1232	PCB Aroclor 1260
PCB Aroclor 1242	

The quantities of PCB in each sample were reported by SGS Environmental Services, Inc. in µg/PUF above the analytical detection limit of 0.1 µg/PUF. These quantities were divided by the standard air volume sampled to provide ambient concentrations in µg/m<sup>3</sup>.

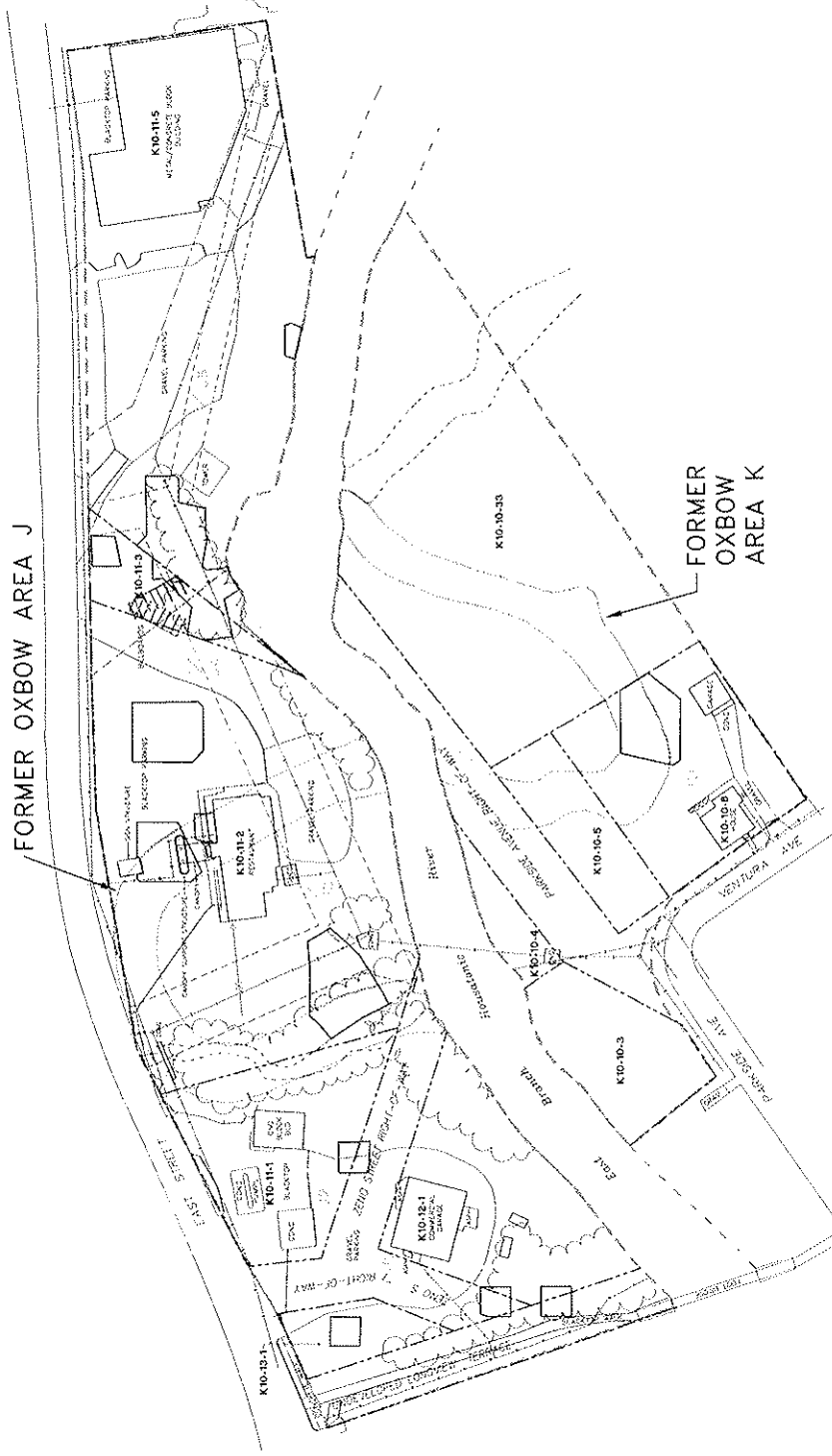
Average Sampling Rate	0.225 m <sup>3</sup> /min
Average Sample Volume	324 m <sup>3</sup> /PUF
Analytical Detection Limit	0.1 µg/PUF
Project Detection Limit	0.0003 µg/m <sup>3</sup>

## **2.5 Ambient PCB Concentrations**

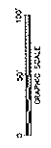
Ambient 24-hour concentrations of total PCB in  $\mu\text{g}/\text{m}^3$  from samples taken during the sampling events at the Former Oxbow Areas J and K are contained in Appendix I. The laboratory analytical results are provided in Appendix V and flow calculations are provided in Appendix VIII. The highest PCB concentration analyzed for any of the sampling periods during the site remediation work was  $0.0051 \mu\text{g}/\text{m}^3$  measured from July 13-14, 2006 at the J5 monitoring location, southeast of Parcel K10-11-13. Measured PCB concentrations did not exceed the notification level of  $0.05 \mu\text{g}/\text{m}^3$  during the study at any of the monitored sites.



- LEGEND:**
- APPROXIMATE AIRSB AND PSD AND PARTICULATE MONITORING LOCATION
  - APPROXIMATE REMOVAL ACTION AREA BOUNDARY
  - PROPERTY LINE
  - K10-10-8
  - WESTERN MASS. ELECTRIC CO. EASEMENT
  - SEWER EASEMENT
  - STREAMS WITH INTERMITTENT FLOW
  - APPROXIMATE FORMER OXBOW/LQW-TRIC AREA
  - APPROXIMATE SEWER LOCATION
  - APPROXIMATE STORM DRAIN LOCATION
  - APPROXIMATE WATER MAIN LOCATION
  - APPROXIMATE GAS LINE LOCATION
  - LIMITS OF SOA REMOVAL



- NOTES:**
1. BASE MAP MODIFIED FROM SURVEY DRAWINGS NOS. 02-238-1, 19/29/00, AND 02-108-3, 07/18/00 BY GENERAL ELECTRIC COMPANY. THE MONITORING LOCATIONS SHOWN ON THIS MAP WERE DERIVED FROM PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC. - FLOWN IN APRIL 1990.
  2. EASEMENTS AND PROPERTY LINES OBTAINED FROM COPIES OF MAPS OF ATTORNEY TALE ASSESSORS MAPS AND ARE APPROXIMATE.
  3. FORMER RIVER CHANNEL AND OXBOW/LOW-LONG AREAS SHOWN ON THIS MAP WERE OBTAINED FROM RECONSTRUCTION DRAWINGS, 1940.
  4. UTILITY LOCATIONS ARE APPROXIMATE, AND ALL UTILITIES MAY NOT BE SHOWN.



GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS

**AMBIENT AIR PCB PARTICULATE MONITORING  
FORMER OXBOW AREAS J AND K**

**AMBIENT AIR PCB AND PARTICULATE  
MONITORING LOCATIONS**

**BBL**  
PITTSFIELD, MASSACHUSETTS

FIGURE | **1**

### **3.0 PARTICULATE MONITORING**

#### **3.1 Monitor Locations**

Particulate monitoring was conducted at one to four on-site locations, depending on site activity, and one background location using real-time particulate monitors. Monitoring was conducted using a combination of MIE dataRAM Model DR-2000/4000 monitors and MIE dataRAM Model pDR-1000 monitors. The inlets of the monitors were placed approximately 3-6 feet above ground level, depending on the type of monitor.

The locations of the monitors varied depending on which Parcels were undergoing remediation (i.e., K-10-13-1, K10-11-1, K11-2, K10-11-3, or K10-10-5). Sampling locations were as follows:

- Station J2 – North of the Housatonic River, middle of Parcel K10-11-1
- Station J3 – North of the Housatonic River, south of Parcel K10-11-2
- Station J4 – North of the Housatonic River, southwest of Parcel K10-11-3
- Station J5 – North of the Housatonic River, southeast of Parcel K10-11-13
- Station K1 - South of the Housatonic River, south of Parcel K10-10-5

From July 12 through July 14, on-site monitoring was conducted at one location, K1. From July 17 through July 18, on-site monitoring was conducted at sites K1 and J3. On July 19 on-site monitoring was conducted at sites K1, J3, J4, and J5. From July 20 through July 21, on-site monitoring was conducted at sites J3, J4, and J5. On July 24 monitoring was conducted at sites J2, J3, J4, and J5, and from July 25 through July 28 monitoring took place at sites J2, J3, and J4. The monitoring locations were changed based on the progression of site activities. Background monitoring was conducted each day at GE-owned property at Longfellow Avenue in Pittsfield, MA. The locations of the monitors are identified in Figure 1.

#### **3.2 Monitoring Procedures**

Monitoring was conducted on those days when soil remediation occurred during the period of July 12 through July 28, 2006. Monitoring was conducted for approximately ten hours per day, generally from 7:00 a.m. to 5:00 p.m.

#### **3.3 Analytical Procedure**

A combination of MIE dataRAM Model pDR-1000 real-time particulate monitors and MIE dataRAM Model DR-2000/4000 real-time particulate monitors were used to monitor ambient particulate concentration during site activities. Both types of monitors use a light scattering photometer to determine particulate concentrations. The pDR-1000 uses a passive sampling technique and has a measurement range of 0.001 to 400 mg/m<sup>3</sup>. The DR-2000/4000 pumps sample air through a sensing chamber and is equipped with a

heated inlet probe to evaporate water that is absorbed by particles under conditions of high humidity. The DR-2000/4000 has a measurement range of 0.0001 to 400 mg/m<sup>3</sup>.

Data were logged by the instruments' dataloggers, averaged and recorded for each 10-hour day. A written notification was provided to the GE Project Manager if the average daily particulate concentration exceeded 0.120 mg/m<sup>3</sup>. This level is 80 percent of the 24-hour National Ambient Air Quality Standard (NAAQS) for particulate matter of 0.150 mg/m<sup>3</sup> (as PM<sub>10</sub>).

### 3.4 Analytical Results

The table contained in Appendix II summarizes the monitoring locations, average daily particulate concentration, average monitoring period, and the predominant wind direction during the sampling period for each site. The table below summarizes the average particulate concentrations at each monitoring location during soil remediation.

The highest average daily concentrations recorded during the soil remediation occurred on July 27, 2006. Average site concentrations were as follows: 0.088 mg/m<sup>3</sup> at J2, 0.086 mg/m<sup>3</sup> at J3 and 0.101 mg/m<sup>3</sup> at J4. The background concentration recorded on this day was 0.070 mg/m<sup>3</sup>. None of these concentrations represent an exceedance of the notification level for particulate matter of 0.120 mg/m<sup>3</sup>, or the action level of 150 mg/m<sup>3</sup>.

**Table 1**  
**Average Particulate Concentrations**  
**Former Oxbow Areas J and K Monitoring Locations**

<i>K1</i> (mg/m <sup>3</sup> )	<i>J2</i> (mg/m <sup>3</sup> )	<i>J3</i> (mg/m <sup>3</sup> )	<i>J4</i> (mg/m <sup>3</sup> )	<i>J5</i> (mg/m <sup>3</sup> )	<i>Background- Longfellow (BB)</i> (mg/m <sup>3</sup> )
0.052	0.044	0.037	0.044	0.023	0.024



## **4.0 PCB QUALITY ASSURANCE ASSESSMENT**

### **4.1 Project Quality Assurance/Quality Control (QA/QC)**

The objective of the quality assurance program is to ensure that the data collected on ambient levels of PCB are adequate to meet the purpose of the monitoring program and the intended uses of the data. Standard QA/QC procedures outlined in the Scope of Work were followed during sampling.

The following objectives were used as guidelines to assuring quality in the design and implementation of the PCB monitoring program.

- The sampling and analytical procedures were conducted in accordance with EPA Compendium Method TO-4A and EPA recommended guidelines, as applicable.
- All phases of the sampling program were adequately documented. Documentation was maintained to evidence the validity of calibrations, sample collection, flow calculations, sample custody, analytical performance, data reduction and audit procedures. Field notes were maintained to identify and reconstruct sampling events, calibration procedures, maintenance and repair activity, and other related information.
- The analytical laboratory performed standard QA/QC procedures.
- Sampling and analytical data quality were measured and reported, where applicable, in terms of completeness, precision, accuracy (bias), representativeness, and comparability.

#### **4.1.1 Validity**

A valid PCB sample was defined as an air sample that was collected over 24 hours,  $\pm$  60 minutes at a rate of approximately 0.225 m<sup>3</sup>/min. Additionally, a valid sample must represent a minimum total collected volume of air of 288 m<sup>3</sup>.

#### **4.1.2 Representativeness**

All PCB samples were collected at the locations and during the time period identified as being representative for the purpose of this study.

### **4.1.3 Comparability**

All measured PCB concentrations were converted to  $\mu\text{g}/\text{m}^3$  for comparison with the standard.

### **4.1.4 Completeness**

Sample completeness criteria are based on obtaining valid samples at each sample site for the duration of the project. Based on the scope of sampling there were a possible total of 15 PCB samples. Completeness for the project was measured at 100%.

### **4.1.5 Precision**

Field sampling precision was measured by samples taken at the co-located sampler. The co-located sampler was installed at the monitoring location south of Parcel K10-11-2 (J3) prior to and during soil remediation activities.

During each event, the co-located sampler was located 2-4 meters apart from the primary sampler. The calibration, sampling, and analytical procedures for the co-located sampler were the same as for all samplers. The co-located sampler operated whenever the primary sampler operated. The average percent difference between the primary sampler concentration and the co-locator sampler concentration was 36%. The average percent difference calculations are included in Appendix XI.

### **4.1.6 Sampling Accuracy**

One-point calibration checks were conducted before and after each sampling event and were used as a check of flow measurements. The one-point calibration checks on all samplers were within  $\pm 10\%$  deviation of calculated flow values.

## **4.2 Calibrations and Audit Activity**

Calibrations for all sampling equipment were conducted in accordance with the schedules and procedures specified in EPA Method TO-4A as applicable. All data and calculations for the calibrations have been maintained in a calibration log file. Summary calibration sheets are contained in Appendix VII.

The following internal quality control checks were performed on each sampler:

- A one-point audit of the calibrated flow rate versus sampler magnehelic pressure indication was performed on each high-volume sampler before and after each sampling event (Appendix VIII).
- A zero check on the samplers' pressure gauges or flow meters was verified before and after each sampling event (Appendix VIII).
- A leak check was performed on each sampler before and after each sampling event (Appendix VIII).
- A record and/or adjustment of the sampler pressure or flow indicator was undertaken to maintain a constant rate flow at six-hour intervals during the sampling event (Appendix VIII).
- One co-located sampler was installed during each sampling event as a sampling precision check on the field samplers. The ambient PCB data from the co-located samples were used to verify the precision of the primary samplers.

#### **4.3 Sample Quality Assurance**

The following quality control measures were performed to ensure the integrity of the high volume air samplers:

- During each event, one PUF blank was transported with the samples to and from the field without having air drawn through it. The PUF was shipped along with the samples to the laboratory for analysis.
- All samples were labeled and transported under chain-of-custody to the contract laboratory (Appendix IX). The samples were recorded and handled according to strict chain-of-custody procedures.

## **5.0 PARTICULATE QUALITY ASSURANCE ASSESSMENT**

### **5.1 Project Quality Assurance/Quality Control (QA/QC)**

The objective of the quality assurance program was to ensure that the data collected on ambient levels of particulate are adequate to meet the purpose of the monitoring program and the intended uses of the data. Standard QA/QC procedures outlined in the Scope of Work were followed during sampling.

The following objectives were used as guidelines to assuring quality in the design and implementation of the monitoring program.

- All MIE dataRAM Model pDR-1000 particulate monitors are zeroed weekly, before starting a new project, and whenever maintenance is performed on the monitor.
- All MIE dataRAM Model DR-2000/4000 particulate monitors are calibrated daily before use.
- Both the MIE pDR-1000 particulate monitors and the MIE DR-2000/4000 particulate monitors have an inherent inaccuracy of 5%.
- Because the particulate monitors have an inherent sensitivity to humid conditions, the monitors are carefully monitored during humid or rainy weather. In accordance with the Scope of Work for this project, BEC used its professional engineering judgment to determine the reliability of data collected during very high humidity conditions. Any such judgments are noted appropriately on the data summary table.
- All monitoring problems were immediately brought to the attention of the GE Project Manager.

**APPENDIX I**

**PCB AMBIENT AIR CONCENTRATIONS**

**2006 PCB AMBIENT AIR CONCENTRATIONS  
FORMER OXBOW AREAS J AND K  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Event Period	Date Analytical Results Received by BEC, Inc.	Field Blank (µg/PUF)	J3 (µg/m <sup>3</sup> )	J3 (colocated) (µg/m <sup>3</sup> )	J5 (µg/m <sup>3</sup> )	K1 (µg/m <sup>3</sup> )	Background - Longfellow Avenue (µg/m <sup>3</sup> )
07/06 - 07/07/06	07/17/06	ND (<0.10) J	0.0008 J	0.0010 J	0.0013 J	0.0006 J	0.0029 J
07/08 - 07/09/06	07/18/06	ND (<0.10) J	0.0007 J	0.0016 J	0.0022 J	0.0026 J	0.0006 J
07/13 - 07/14/06	07/21/06	ND (<0.10) J	0.0013 J	0.0012 J	0.0051 J	0.0012 J	0.0048 J
<b>2006 Site Average</b>			<b>0.0009</b>	<b>0.0013</b>	<b>0.0029</b>	<b>0.0015</b>	<b>0.0028</b>
Notification Level			0.05	0.05	0.05	0.05	0.05

ND - Non-Detect

J - Estimated

**Qualification Notes:**

1. Samples collected from 07/06 to 07/07/06 were qualified as estimated due to laboratory not recording the temperature of the PUF upon receipt. The temperature of the temperature blank was recorded as less than 4 °C.
2. Samples collected from 07/08 to 07/09/06 were qualified as estimated due to the PUF receipt temperature greater than 4 °C ( PUF temperature 22.4 °C). The temperature of the temperature blank was recorded as less than 4 °C.
3. Samples collected from 07/13 to 07/14/06 were qualified as estimated due to laboratory not recording the temperature of the PUF upon receipt.

## **APPENDIX II**

### **PARTICULATE AMBIENT AIR CONCENTRATIONS**

**AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING 2006<sup>1</sup>**

**PARTICULATE AMBIENT AIR CONCENTRATIONS  
FORMER OXBOW AREAS J & K  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Date <sup>2</sup>	Sampler Location	Average Site Concentration (mg/m <sup>3</sup> )	Background Site Concentration (mg/m <sup>3</sup> )	Average Period (Hours:Min)	Predominant Wind Direction
07/12/06	K1	0.055*	NA <sup>3</sup>	6:00 <sup>4</sup>	Calm
07/13/06	K1	0.030*	0.015*	10:45	NNE, W
07/14/06	K1	0.066*	0.019*	11:00	WNW
07/17/06 <sup>5</sup>	K1	0.071*	0.011*	11:30	Variable
	J3	0.035		11:00	
07/18/06	K1	0.069*	0.011*	8:45 <sup>4</sup>	WNW
	J3	0.026		10:30	
07/19/06 <sup>5</sup>	K1	0.023	0.011*	11:15	Calm
	J3	0.024*		11:00	
	J4	0.019*		11:00	
	J5	0.019*		11:00	
07/20/06 <sup>5</sup>	J3	0.014*	0.009*	5:45 <sup>4</sup>	Calm
	J4	0.020*		10:30	
	J5	0.020*		10:15	
07/21/06	J3	0.045*	0.033*	11:15	Variable
	J4	0.055*		11:15	
	J5	0.044*		11:15	
07/24/06 <sup>5</sup>	J2	0.011*	0.005*	5:45 <sup>6</sup>	Variable
	J3	0.014*		11:30	
	J4	0.013*		11:30	
	J5	0.009*		5:15 <sup>6</sup>	
07/25/06	J2	0.031*	0.027*	10:30	SSW
	J3	0.035*		10:30	
	J4	0.042*		10:30	
07/26/06	J2	0.049*	0.043*	11:30	Variable
	J3	0.050*		11:30	
	J4	0.064*		11:30	
07/27/06	J2	0.088*	0.070*	12:00	SSW
	J3	0.086*		12:00	
	J4	0.101*		12:00	
07/28/06	J2	0.040*	0.035*	11:15	SSW
	J3	0.041*		11:30	
	J4	0.041*		11:15	
Notification Level		0.120			

\* Measured with DR-2000 or DR-4000. All other measured with pDR-1000.

Background monitoring location at 15 Longfellow Avenue in Pittsfield

Predominant wind direction determined using hourly wind direction data from the Pittsfield Municipal Airport Weather Station.

<sup>1</sup> Monitoring was performed only on days when site activities occurred.

<sup>2</sup> The particulate monitors obtain real-time data. The sampling data were obtained by BEC on the sampling date.

<sup>3</sup> Data not available due to equipment malfunction.

<sup>4</sup> Sampling period was shortened due to equipment malfunction.

<sup>5</sup> Monitoring locations changed due to progression of site activities.

<sup>6</sup> Sampling period was shortened due to mid-day switch of sampling locations.



**APPENDIX III**  
**SCOPE OF WORK**

**SCOPE OF WORK**

**for**

**Ambient Air PCB & Particulate Monitoring  
at the Former Oxbow Areas J and K**

**General Electric Company  
Pittsfield, Massachusetts**

Prepared by

**Berkshire Environmental Consultants, Inc.**  
152 North Street, Suite 250  
Pittsfield, MA 01201

September 2005  
Revised March 2006

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- 6.0 Quality Assurance and Quality Control Procedures
- 7.0 PCB Sample Documentation, Handling and Shipment
- 8.0 Meteorological Monitoring
- 9.0 Documentation and Reporting
- 10.0 Action Levels
  - 10.1 PCBs
  - 10.2 Particulate Matter

## **1.0 INTRODUCTION**

This Scope of Work (SOW) describes the ambient air monitoring for polychlorinated biphenyls (PCBs) and particulate matter which will be conducted during soil remediation actions at the Former Oxbow Areas J and K in Pittsfield, Massachusetts. Soil removal will be taking place at Parcels K10-13-1, K10-11-1, K10-11-2, and K10-11-3 on the north side of the Housatonic River and Parcel K10-10-5 on the south side of the Housatonic River in Pittsfield, Massachusetts.

## **2.0 SAMPLING OBJECTIVE**

The objectives of this sampling program are two-fold:

1. To obtain valid and representative data on ambient levels of PCBs around the remedial site before and during remedial activities to insure that the activities are not causing an unacceptable increase in ambient air concentrations of PCB.
2. To obtain valid and representative data on ambient levels of particulate around the remedial site before and during soil remediation activities to insure that the remedial activities are not causing an unacceptable increase in ambient air concentrations of particulate.

## **3.0 SITE ACTIVITY**

As described in the Final Work Plan, the on-site activities to be performed at the Former Oxbow Areas J and K properties include the performance of soil removal/replacement at the commercial and residential properties identified above. It is anticipated that the remediation activities described in the Final Work Plan will be performed as one continuous phase of work. Performance of the remediation work presented in the Final Work Plan is subject to review and approval by the United States Environmental Protection Agency (US EPA) and the Massachusetts Department of Environmental Protection (MA DEP) (together, the Agencies), as well as execution of owner access agreements.

This ambient air monitoring program includes particulate and PCB monitoring during soil remediation activities.

## 4.0 PCB MONITORING PROGRAM

### 4.1 High Volume PCB Sampling

The high volume PCB sampling program will include the following elements:

High-Volume Monitoring Locations	3
Background Sites	1
Co-Located Sites (Field Duplicates)	1
Sampling Time	24 hours per sampling event
Sampling Period	Duration of soil remediation activity
Frequency of Sampling	Twice prior to the onset of soil remediation activity and once every four weeks during remediation activity*
No. of Blanks Per Sampling Event	1
Sampling Method	EPA Compendium Method TO-4A
Analytical Method	GC/ECD or GC/MS as described in EPA Method TO-4A

\* Sampling frequency may be increased if either PCB or particulate monitoring levels exceed threshold values.

Ambient air monitoring for PCBs will be conducted during soil remediation activities. Sampling will be conducted for two 24-hour periods prior to the initiation of remediation and will proceed once every 4 weeks during soil remediation. At least one 24-hour PCB sampling event will be performed during remediation activity. The ambient air monitoring frequency for PCBs may be increased to bi-weekly in the event that ambient particulate concentrations at any one location consistently exceed the proposed particulate notification level (i.e.  $>120 \mu\text{g}/\text{m}^3$ ). "Consistently exceeding" will be defined as concentrations greater than  $120 \mu\text{g}/\text{m}^3$  on three consecutive 10-hour days or 5 days in any two-week period. Once PCB concentrations are below PCB action levels (see Section 10 of this Scope of Work) for two consecutive bi-weekly events, then PCB sampling frequency will revert to once every four weeks.

PCB background monitoring will be conducted prior to any on-site soil remediation activity at three locations in the removal action area for the Former Oxbow Areas J and K. During soil remediation activity, PCB monitoring will be conducted at three locations in Former Oxbow Areas J and K and at one background location on 15 Longfellow Avenue in Pittsfield. Preliminary monitoring sites have been identified for the soil remediation activity (as shown on Figure 3). Monitoring locations J3, J5 and K1 will be utilized for PCB monitoring during the background event and during soil removal activities. The preliminary locations of the monitors were selected based firstly on both

wind direction and the location of potential receptors, and secondly on the presence of obstructions and other influences (such as buildings and road traffic) that may adversely affect the representativeness of the data. The predominant wind direction is west-northwest based on five- and ten-year wind rose data from the Albany, NY NWS station. Data from the GE owned station at the GE site in Pittsfield, MA also demonstrate a predominant WNW wind direction, however the data from the local station also show that the local wind direction and speed vary considerably. Therefore, air monitors have generally been placed in locations that will facilitate good downwind coverage, i.e. E or ESE of the construction activity, but also provide adequate coverage between the areas of construction and potential receptors regardless of wind direction.

The specific sampling locations for monitors may be modified based on the location and nature of the soil remediation activity, predominant wind direction, the location of potential receptors, physical obstructions (i.e. trees, buildings, traffic), the availability of power, site security, site accessibility, etc. Any significant modifications to the locations of monitors will be reviewed with the GE Project Manager.

The detection limit (DL) for PCB analysis of the high volume samples will be  $0.0003 \mu\text{g}/\text{m}^3$ , in consideration of the following:

Avg. Sampling Rate	0.225 m <sup>3</sup> /min.
Avg. Sample Volume	324 m <sup>3</sup> /PUF
Analytical DL	0.1 $\mu\text{g}$ /PUF
Project DL	0.0003 $\mu\text{g}/\text{m}^3$

The sampling method to be used for PCBs in the high volume samples is US EPA Compendium Method TO-4A, Determination of Pesticides and Polychlorinated Biphenyls in Ambient Air Using High Volume Polyurethane Foam (PUF) Sampling Followed by Gas Chromatographic/Multi-Detector Detection (GC/MD). This method employs a modified high volume sampler consisting of a glass fiber filter with a polyurethane foam (PUF) backup adsorbent cartridge to sample ambient air at a rate of 0.225 m<sup>3</sup>/min. A General Metal Works Model GPS-1 Sampler or equivalent will be used. The filter and cartridge will be placed in clean, sealed containers and returned to the laboratory for analysis.

Procedures for sample media preparation and calibration of the sampling system are specified in Method TO-4A. TO-4A further specifies procedures for calculation and data reporting, and the assessment of data for accuracy and precision.

The samplers will be monitored at six-hour intervals over each 24-hour sampling period. During these six-hour checks, barometric pressure, temperature, and magnehelic pressure readings will be taken and the air flow adjusted to the target flow rate, as necessary. At the end of the sampling period, the sampling modules containing the fiber

filters and PUF adsorbents will be removed from the samplers. Each glass fiber filter will be folded and placed on the PUF adsorbent for that sample and each sample consisting of a fiber filter and PUF adsorbent (inside a glass cartridge) will be wrapped in hexane rinsed aluminum foil. Each fiber filter and PUF adsorbent set will be labeled as one sample. The samples will be wrapped, packaged in blue ice and sent under chain-of-custody to the laboratory for analysis.

The PCB sampling probe height for all high volume monitors will be approximately 2.0 meters above the ground. This height is adequate to represent the breathing zone and to be above the influence of ground activity around the monitor. The location of the samplers will be in conformance, to the extent practical, with the siting requirements for ambient monitors in Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD), U.S. EPA. May, 1987.

#### 4.2 *Analytical Procedures*

In the high volume samples, the PCBs will be recovered by Soxhlet extraction with 10% diethyl ether in hexane. The extracts will be reduced in volume using Kuderna-Danish (K-D) concentration techniques and subjected to column chromatographic cleanup. The extracts will be analyzed for PCBs using gas chromatography with either electron capture detection (GC/ECD) or mass spectrometry detection (GC/MS) as described TO-4A.

The samples will be analyzed for the following PCB Aroclors:

PCB-1016	PCB-1221
PCB-1232	PCB-1242
PCB-1248	PCB-1254
PCB-1260	

## **5.0 PARTICULATE MONITORING**

Ambient air monitoring for particulate matter will be conducted during all soil remediation activities. Specifically, real-time ambient particulate monitoring will be performed during all active on-site soil remediation activities at two of the five identified on-site locations on Former Oxbow Area J (J1, J2, J3, J4, and J5) when work is being performed on Oxbow J and at one identified on-site location (K1) on Former Oxbow Area K when work is being performed on Oxbow K. The two sites used for Oxbow J will be selected based on where removal action is taking place and will change as work progresses on the site. For example, when work is occurring on the east end of the property, sites J4 and J5 will be used. As work progresses to the west, sites J4 and J3 will be used, then J3 and J2, and so on. Background monitoring at the GE owned property at 15 Longfellow Avenue in Pittsfield will be conducted concurrent with all on-site particulate monitoring. Preliminary monitoring sites have been identified in Figure 3. The specific locations for stations have been preliminarily selected based on the location and nature of the soil remediation activities, predominant wind direction, location of potential receptors, availability of power, site accessibility, and site security. Any significant modifications to the locations of monitors will be reviewed with the GE Project Manager.

At the background and at one on-site location, real-time particulate monitoring will be performed using a MIE dataRAM Model DR-2000/4000 real time particulate monitor or equivalent. Each Model DR-2000/4000 monitor or equivalent is equipped with a temperature conditioning heater and in-line impactor head to monitor and record particulate concentrations with a mean diameter less than 10 micrometers (PM<sub>10</sub>). At the remaining on-site location, real-time particulate monitoring will be performed using a MIE dataRAM Model pDR-1000 or equivalent. Particulate monitoring will typically be conducted at all sites for approximately 10 hours daily, from 7 a.m. to 5 p.m., during soil remediation activities. Additional site activities may warrant a longer monitoring period. Particulate data will be recorded and averaged by the instruments' dataloggers every 15 minutes.

Calibrations and maintenance will be conducted at the frequency and in accordance with the procedures recommended by the manufacturer. All calibrations will be recorded.

## **6.0 QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES**

Quality assurance and quality control (QA/QC) procedures for the PCB air sampling program follow those described in the Ambient Air Monitoring Plan contained in the GE Project Operations Plan (AAMP/POP) and Method TO-4A. Quality assurance and quality control for the particulate sampling will be based on manufacturer's recommendations.



## **7.0 PCB SAMPLE DOCUMENTATION, HANDLING AND SHIPMENT**

Each filter holder and PUF cartridge holder will be pre-marked with a permanent identification number. As each sample is collected, it will be recorded on a field data form along with the date, time and location of collection.

All samples will be securely wrapped for shipment. PCB samples will be preserved at 4°C and shipped on blue ice. Samples will be shipped under chain-of-custody by commercial overnight carrier or courier to the analytical laboratory. Complete details on the PCB sample shipment procedures are contained in the AAMP/POP.

## **8.0 METEOROLOGICAL MONITORING**

Hourly meteorological data from the Automated Surface Observation System (ASOS) Monitor operated at the Pittsfield Municipal Airport in Pittsfield, Massachusetts will be included with the sampling results. This ASOS Monitor is operated by the National Weather Service, Federal Aviation Administration, and the Department of Defense. The ASOS Monitor measures and records wind speed, wind direction, precipitation, temperature, sky conditions, barometric pressure, and relative humidity.

## **9.0 DOCUMENTATION AND REPORTING**

Particulate data will be summarized and reported to the GE Project Manager and the Blasland, Bouck & Lee (BBL) Project Manager. If there is an exceedance of a reporting threshold, GE will be notified as soon as possible. All field and laboratory data recorded during ambient monitoring will be documented according to the procedures in the AAMP/POP. A written report summarizing the results will be provided to GE and BBL after the conclusion of sampling and will include the following:

- Date and Time of Sampling
- Sampling Locations
- Calibration and Maintenance Activities
- Pollutants Monitored
- Number of Samples Collected
- Analytical Results
- Quality Assurance Assessment
- Meteorological Data Summary
- Discussion of Problems or Disruptions

## 10.0 ACTION LEVELS

### 10.1 PCBs

The notification and action levels for PCB concentrations in ambient air are 0.05  $\mu\text{g}/\text{m}^3$  (24-hour average) and 0.1  $\mu\text{g}/\text{m}^3$  (24-hour average), respectively. These are the same levels established by EPA for the other remediation activities in Pittsfield. Any exceedance of the notification level will be immediately reported to the GE Project Manager.

If the 0.05  $\mu\text{g}/\text{m}^3$  notification level is exceeded, GE shall notify EPA promptly, but no later than 24 hours after receipt of the data showing such an exceedance, and shall implement additional response actions. The actions to be considered shall include those previously implemented by GE at other areas at the CD Site (e.g., increased frequency of monitoring, additional monitoring locations, increased use of dust suppression measures, modifications to dust-producing activities). If the action level of 0.1  $\mu\text{g}/\text{m}^3$  is exceeded, GE shall notify EPA immediately upon receipt of the data showing such an exceedance, and shall temporarily shut down excavation activities and discuss with EPA the need for and type of short-term actions to address the exceedance. In addition, GE shall evaluate the need for additional engineering controls, discuss that evaluation with EPA, and if warranted, propose such controls. EPA approval of appropriate response actions and engineering controls, if proposed, shall be required prior to GE resuming excavation activities.

### 10.2 Particulate Matter

For each day of monitoring, the particulate data from the on-site monitors will initially be compared with the data from the background monitor. If the average 10-hour  $\text{PM}_{10}$  concentration at any on-site monitor exceeds the average concentration at the background monitor, the on-site concentrations will then be compared with the notification level of 120  $\mu\text{g}/\text{m}^3$  (micrograms per cubic meter) -- which represents 80 percent of the current 24-hour National Ambient Air Quality Standard (NAAQS) for  $\text{PM}_{10}$  (150  $\mu\text{g}/\text{m}^3$ ). This level has been selected to allow notice to GE before concentrations reach the level of the 24-hour NAAQS. Any exceedances of the notification level or the NAAQS will be immediately reported to the GE Project Manager.

**APPENDIX IV**  
**METHOD TO-4A**

**Compendium of Methods  
for the Determination of  
Toxic Organic Compounds  
in Ambient Air**

**Second Edition**

**Compendium Method TO-4A**

**Determination of Pesticides and  
Polychlorinated Biphenyls in Ambient  
Air Using High Volume Polyurethane  
Foam (PUF) Sampling Followed by  
Gas Chromatographic/Multi-Detector  
Detection (GC/MD)**

**Center for Environmental Research Information  
Office of Research and Development  
U.S. Environmental Protection Agency  
Cincinnati, OH 45268**

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Method TO-4 was originally published in April of 1984 as one of a series of peer reviewed methods in "*Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air*," EPA 600/4-89-018. In an effort to keep these methods consistent with current technology, Method TO-4 has been revised and updated as Method TO-4A in this Compendium to incorporate new or improved sampling and analytical technologies. In addition, this method incorporates ASTM Method D 4861-94, *Standard Practice for Sampling and Analysis of Pesticides and Polychlorinated Biphenyls in Air*.

This Method is the result of the efforts of many individuals. Gratitude goes to each person involved in the preparation and review of this methodology.

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### DISCLAIMER

***This Compendium has been subjected to the Agency's peer and administrative review, and it has been approved for publication as an EPA document. Mention of trade names or commercial products does not constitute endorsement or recommendation for use.***

## METHOD TO-4A

### Determination of Pesticides and Polychlorinated Biphenyls in Ambient Air Using High Volume Polyurethane Foam (PUF) Sampling Followed by Gas Chromatographic/Multi-Detector Detection (GC/MD)

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## METHOD TO-4A

### Determination of Pesticides and Polychlorinated Biphenyls in Ambient Air Using High Volume Polyurethane Foam (PUF) Sampling Followed by Gas Chromatographic/Multi-Detector Detection (GC/MD)

#### 1. Scope

1.1 This document describes a method for sampling and analysis of a variety of common pesticides and for polychlorinated biphenyls (PCBs) in ambient air. The procedure is based on the adsorption of chemicals from ambient air on polyurethane foam (PUF) using a high volume sampler.

1.2 The high volume PUF sampling procedure is applicable to multicomponent atmospheres containing common pesticide concentrations from 0.001 to 50  $\mu\text{g}/\text{m}^3$  over 4- to 24-hour sampling periods. The limits of detection will depend on the nature of the analyte and the length of the sampling period.

1.3 Specific compounds for which the method has been employed are listed in Table 1. The analytical methodology described in Compendium Method TO-4A is currently employed by laboratories throughout the U.S. The sampling methodology has been formulated to meet the needs of common pesticide and PCB sampling in ambient air.

1.4 Compendium Method TO-4 was originally published in 1989 (1). Further updates of the sampling protocol were published as part of Compendium Method TO-13 (2). The method was further modified for indoor air application in 1990 (3). In an effort to keep the method consistent with current technology, Compendium Method TO-4 has incorporated the sampling and analytical procedures in ASTM Method D4861-94 (4) and is published here as Compendium Method TO-4A.

#### 2. Summary of Method

2.1 A high-volume (~8 cfm) sampler is used to collect common pesticides and PCBs on a sorbent cartridge containing PUF. Airborne particles may also be collected, but the sampling efficiency is not known (5). The sampler is operated for 24-hours, after which the sorbent is returned to the laboratory for analysis.

2.2 Pesticides and PCBs are extracted from the sorbent cartridge with 10 percent diethyl ether in hexane and determined by gas chromatography coupled with an electron capture detector (ECD), nitrogen-phosphorus detector (NPD), flame photometric detector (FPD), Hall electrolytic conductivity detector (HECD), or a mass spectrometer (MS). For common pesticides, high performance liquid chromatography (HPLC) coupled with an ultraviolet (UV) detector or electrochemical detector may be preferable.

2.3 Interferences resulting from analytes having similar retention times during GC analysis are resolved by improving the resolution or separation, such as by changing the chromatographic column or operating parameters, or by fractionating the sample by column chromatography.



### 3. Significance

**3.1** Pesticide usage and environmental distribution are common to rural and urban areas of the United States. The application of pesticides can cause adverse health effects to humans by contaminating soil, water, air, plants, and animal life. PCBs are less widely used, due to extensive restrictions placed on their manufacturer. However, human exposure to PCBs continues to be a problem because of their presence in various electrical products.

**3.2** Many pesticides and PCBs exhibit bioaccumulative, chronic health effects; therefore, monitoring the presence of these compounds in ambient air is of great importance.

**3.3** The relatively low levels of such compounds in the environment requires the use of high volume sampling techniques to acquire sufficient sample for analysis. However, the volatility of these compounds prevents efficient collection on filter media. Consequently, Compendium Method TO-4A utilizes both a filter and a PUF backup cartridge which provides for efficient collection of most common pesticides, PCBs, and many other organics within the same volatility range.

**3.4** Moreover, modifications to this method has been successfully applied to measurement of common pesticides and PCBs in outdoor air (6), indoor air (3) and for personal respiratory exposure monitoring (3).

### 4. Applicable Documents

#### 4.1 ASTM Standards

- D1356 *Definition of Terms Relating to Atmospheric Sampling and Analysis*
- D4861-94 *Standard Practice for Sampling and Analysis of Pesticides and Polychlorinated Biphenyls in Air*
- E260 *Recommended Practice for General Gas Chromatography Procedures*
- E355 *Practice for Gas Chromatography Terms and Relationships*
- D3686 *Practice for Sampling Atmospheres to Collect Organic Compound Vapors (Activated Charcoal Tube Adsorption Method)*
- D3687 *Practice for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption*
- D4185 *Practice for Measurement of Metals in Workplace Atmosphere by Atomic Absorption Spectrophotometry*

#### 4.2 EPA Documents

- *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-10, Second Supplement*, U. S. Environmental Protection Agency, EPA 600/4-89-018, March 1989.
- *Manual of Analytical Methods for Determination of Pesticides in Humans and Environmental Standards*, U. S. Environmental Protection Agency, EPA 600/8-80-038, June 1980.
- *Compendium of Methods for the Determination of Air Pollutants in Indoor Air: Method IP-8*, U. S. Environmental Protection Agency, EPA 600/4-90-010, May 1990.

### 4.3 Other Documents

- Code of Federal Regulations, Title 40, Part 136, Method 604

### 5. Definitions

*[Note: Definitions used in this document and in any user-prepared Standard operating procedures (SOPs) should be consistent with ASTM D1356, E260, and E355. All abbreviations and symbols are defined within this document at point of use.]*

**5.1 Sampling efficiency (SE)**-ability of the sampling medium to trap analytes of interest. The percentage of the analyte of interest collected and retained by the sampling medium when it is introduced as a vapor in air or nitrogen into the air sampler and the sampler is operated under normal conditions for a period of time equal to or greater than that required for the intended use is indicated by %SE.

**5.2 Retention efficiency (RE)**-ability of sampling medium to retain a compound added (spiked) to it in liquid solution.

**5.3 Retention time (RT)**-time to elute a specific chemical from a chromatographic column, for a specific carrier gas flow rate, measured from the time the chemical is injected into the gas stream until it appears at the detector.

**5.4 Relative retention time (RRT)**-a ratio of RTs for two chemicals for the same chromatographic column and carrier gas flow rate, where the denominator represents a reference chemical.

**5.5 Method detection limit (MDL)**-the minimum concentration of a substance that can be measured and reported with confidence and that the value is above zero.

**5.6 Kuderna-Danish apparatus**-the Kuderna-Danish (K-D) apparatus is a system for concentrating materials dissolved in volatile solvents.

**5.7 MS-SIM**-the GC is coupled to a mass spectrometer where the instrument is programmed to acquire data for only the target compounds and to disregard all others, thus operating in the select ion monitoring mode (SIM). This is performed using SIM coupled to retention time discriminators. The SIM analysis procedure provides quantitative results.

**5.8 Sublimation**-the direct passage of a substance from the solid state to the gaseous state and back into the solid form without any time appearing in the liquid state. Also applied to the conversion of solid to vapor without the later return to solid state, and to a conversion directly from the vapor phase to the solid state.

**5.9 Surrogate standard**-a chemically compound (not expected to occur in the environmental sample) which is added to each sample, blank and matrix spiked sample before extraction and analysis. The recovery of the surrogate standard is used to monitor unusual matrix effects, gross sample processing errors, etc. Surrogate recovery is evaluated for acceptance by determining whether the measured concentration falls within acceptable limits.

## 6. Interferences

**6.1** Any gas or liquid chromatographic separation of complex mixtures of organic chemicals is subject to serious interference problems due to coelution of two or more compounds. The use of capillary or microbore columns with superior resolution or two or more columns of different polarity will frequently eliminate these problems. In addition, selectivity may be further enhanced by use of a MS operated in the selected ion monitoring (SIM) mode as the GC detector. In this mode, co-eluting compounds can often be determined.

**6.2** The ECD responds to a wide variety of organic compounds. It is likely that such compounds will be encountered as interferences during GC/ECD analysis. The NPD, FPD, and HECD detectors are element specific, but are still subject to interferences. UV detectors for HPLC are nearly universal, and the electrochemical detector may also respond to a variety of chemicals. Mass spectrometric analyses will generally provide positive identification of specific compounds.

**6.3** PCBs and certain common pesticides (e.g., chlordane) are complex mixtures of individual compounds which can cause difficulty in accurately quantifying a particular formulation in a multiple component mixture. PCBs may interfere with the determination of pesticides.

**6.4** Contamination of glassware and sampling apparatus with traces of pesticides or PCBs can be a major source of error, particularly at lower analyte concentrations. Careful attention to cleaning and handling procedures is required during all steps of sampling and analysis to minimize this source of error.

**6.5** The general approaches listed below should be followed to minimize interferences.

**6.5.1** Polar compounds, including certain pesticides (e.g., organophosphorus and carbamate classes) can be removed by column chromatography on alumina. Alumina clean-up will permit analysis of most common pesticides and PCBs (7).

**6.5.2** PCBs may be separated from other common pesticides by column chromatography on silicic acid (8,9).

**6.5.3** Many pesticides can be fractionated into groups by column chromatography on Florisil (9).

## 7. Safety

**7.1** The toxicity or carcinogenicity of each reagent used in this method has not been precisely defined; however, each chemical compound should be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. The laboratory is responsible for maintaining a current awareness file of Occupational Safety and Health Administration (OSHA) regulations regarding the safe handling of the chemicals specified in this method. A reference file of material data handling sheets should also be made available to all personnel involved in the chemical analysis. Additional references to laboratory safety are available and have been identified for the analyst (10-12).

**7.2** PCBs have been classified as a known or suspected, human or mammalian carcinogen. Many of the other common pesticides have been classified as carcinogens. Care must be exercised when working with these substances. This method does not purport to address all safety problems associated with its use. It is the responsibility of whoever uses this method to consult and establish appropriate safety and health practices and

determine the applicability of regulatory limitations prior to use. The user should be thoroughly familiar with the chemical and physical properties of targeted substances.

**7.3** Treat all target analytes as carcinogens. Neat compounds should be weighed in a glove box. Spent samples and unused standards are toxic waste and should be disposed according to regulations. Regularly check counter tops and equipment with "black light" for fluorescence as an indicator of contamination.

**7.4** The collection efficiency for common pesticides and PCBs has been demonstrated to be greater than 95 percent for the sampling configuration described in the method (filter and backup adsorbent). Therefore, no field recovery evaluation will occur as part of this procedure.

## 8. Apparatus

*[Note: This method was developed using the PS-1 semi-volatile sampler provided by General Metal Works, Village of Cleves, OH as a guideline. EPA has experience in use of this equipment during various field monitoring programs over the last several years. Other manufacturers' equipment should work as well. However, modifications to these procedures may be necessary if another commercially available sampler is selected.]*

### 8.1 Sampling

**8.1.1 High-volume sampler (see Figure 1).** Capable of pulling ambient air through the filter/adsorbent cartridge at a flow rate of approximately 8 standard cubic feet per minute (scfm) (0.225 std m<sup>3</sup>/min) to obtain a total sample volume of greater than 300 scm over a 24-hour period. Major manufacturers are:

- Tisch Environmental, Village of Cleves, OH
- Andersen Instruments Inc., 500 Technology Ct., Smyrna, GA
- Thermo Environmental Instruments, Inc., 8 West Forge Parkway, Franklin, MA

**8.1.2 Sampling module (see Figure 2).** Metal filter holder (Part 2) capable of holding a 102-mm circular particle filter supported by a 16-mesh stainless-steel screen and attaching to a metal cylinder (Part 1) capable of holding a 65-mm O.D. (60-mm I.D.) x 125-mm borosilicate glass sorbent cartridge containing PUF. The filter holder is equipped with inert sealing gaskets (e.g., polytetrafluorethylene) placed on either side of the filter. Likewise, inert, pliable gaskets (e.g., silicone rubber) are used to provide an air-tight seal at each end of the glass sorbent cartridge. The glass sorbent cartridge is indented 20 mm from the lower end to provide a support for a 16-mesh stainless-steel screen that holds the sorbent. The glass sorbent cartridge fits into Part 1, which is screwed onto Part 2 until the sorbent cartridge is sealed between the silicone gaskets. Major manufacturers are:

- Tisch Environmental, Village of Cleves, OH
- Andersen Instruments Inc., 500 Technology Ct., Smyrna, GA
- Thermo Environmental Instruments, Inc., 8 West Forge Parkway, Franklin, MA

A field portable unit has been developed by EPA (see Figure 3).

**8.1.3 High-volume sampler calibrator.** Capable of providing multipoint resistance for the high-volume sampler. Major manufacturers are:

- Tisch Environmental, Village of Cleves, OH
- Andersen Instruments Inc., 500 Technology Ct., Smyrna, GA
- Thermo Environmental Instruments, Inc., 8 West Forge Parkway, Franklin, MA

**8.1.4 Ice chest.** To hold samples at  $<4^{\circ}\text{C}$  or below during shipment to the laboratory after collection.

**8.1.5 Data sheets.** For each sample for recording the location and sample time, duration of sample, starting time, and volume of air sampled.

## 8.2 Sample Clean-up and Concentration (see Figure 4).

**8.2.1 Soxhlet apparatus extractor (see Figure 4a).** Capable of extracting filter and adsorbent cartridges (2.3" x 5" length), 1,000 mL flask, and condenser, best source.

**8.2.2 Pyrex glass tube furnace system.** For activating silica gel at  $180^{\circ}\text{C}$  under purified nitrogen gas purge for an hour, with capability of raising temperature gradually, best source.

**8.2.3 Glass vial.** 40 mL, best source.

**8.2.4 Erlenmeyer flask.** 50 mL, best source.

*[Note: Reuse of glassware should be minimized to avoid the risk of cross contamination. All glassware that is used, especially glassware that is reused, must be scrupulously cleaned as soon as possible after use. Rinse glassware with the last solvent used in it and then with high-purity acetone and hexane. Wash with hot water containing detergent. Rinse with copious amount of tap water and several portions of distilled water. Drain, dry, and heat in a muffle furnace at  $400^{\circ}\text{C}$  for 4 hours. Volumetric glassware must not be heated in a muffle furnace; rather, it should be rinsed with high-purity acetone and hexane. After the glassware is dry and cool, rinse it with hexane, and store it inverted or capped with solvent-rinsed aluminum foil in a clean environment.]*

**8.2.5 White cotton gloves.** For handling cartridges and filters, best source.

**8.2.6 Minivials.** 2 mL, borosilicate glass, with conical reservoir and screw caps lined with Teflon®-faced silicone disks, and a vial holder, best source.

**8.2.7 Teflon®-coated stainless steel spatulas and spoons.** Best source.

**8.2.8 Kuderna-Danish (K-D) apparatus (see Figure 4b).** 500 mL evaporation flask (Kontes K-570001-500 or equivalent), 10 mL graduated concentrator tubes (Kontes K570050-1025 or equivalent) with ground-glass stoppers, and 3-ball macro Snyder Column (Kontes K-570010500, K-50300-0121, and K-569001-219, or equivalent), best source.

**8.2.9 Adsorption column for column chromatography (see Figure 4c).** 1-cm x 10-cm with stands.

**8.2.10 Glove box.** For working with extremely toxic standards and reagents with explosion-proof hood for venting fumes from solvents, reagents, etc.

**8.2.11 Vacuum oven.** Vacuum drying oven system capable of maintaining a vacuum at 240 torr (flushed with nitrogen) overnight.

**8.2.12 Concentrator tubes and a nitrogen evaporation apparatus with variable flow rate.** Best source.

**8.2.13 Laboratory refrigerator.** Best source.

**8.2.14 Boiling chips.** Solvent extracted, 10/40 mesh silicon carbide or equivalent, best source.

**8.2.15 Water bath.** Heated, with concentric ring cover, capable of  $\pm 5^{\circ}\text{C}$  temperature control, best source.

**8.2.16 Nitrogen evaporation apparatus.** Best source.

**8.2.17 Glass wool.** High purity grade, best source.

### 8.3 Sample Analysis

**8.3.1 Gas chromatograph (GC).** The GC system should be equipped with appropriate detector(s) and either an isothermally controlled or temperature programmed heating oven. Improved detection limits may be obtained with a GC equipped with a cool on-column or splitless injector.

**8.3.2 Gas chromatographic column.** As an example, a 0.32-mm (I.D.) x 3-mm DB-5, DB-17, DB-608, DB-1701 are available. Other columns may also provide acceptable results.

**8.3.3 HPLC column.** As an example, a 4.6-mm x 25-cm Zorbax SIL or  $\mu$ Bondpak C-18. Other columns may also provide acceptable results.

**8.3.4 Microsyringes.** 5  $\mu$ L volume or other appropriate sizes.

**8.3.5 Balance.** Mettler balance or equivalent.

**8.3.6 All required syringes, gases, and other pertinent supplies.** To operate the GC/MS system.

**8.3.7 Pipettes, micropipettes, syringes, burets, etc.** To make calibration and spiking solutions, dilute samples if necessary, etc., including syringes for accurately measuring volumes such as 25  $\mu$ L and 100  $\mu$ L.

## 9. Equipment and Materials

### 9.1 Materials for Sample Collection (see Figure 5)

**9.1.1 Quartz fiber filter.** 102-millimeter bindless quartz microfiber filter, Whatman Inc., 6 Just Road, Fairfield, NJ 07004, Filter Type QMA-4.

**9.1.2 Polyurethane foam (PUF) plugs (see Figure 5a).** 3-inch thick sheet stock polyurethane type (density .022 g/cm<sup>3</sup>). The PUF should be of the polyether type used for furniture upholstery, pillows, and mattresses. The PUF cylinders (plugs) should be slightly larger in diameter than the internal diameter of the cartridge. Sources of equipment are Tisch Environmental, Village of Cleves, OH; University Research Glassware, 116 S. Merritt Mill Road, Chapel Hill, NC; Thermo Environmental Instruments, Inc., 8 West Forge Parkway, Franklin, MA; Supelco, Supelco Park, Bellefonte, PA; and SKC Inc., 334 Valley View Road, Eighty Four, PA.

**9.1.3 Teflon® end caps (see Figure 5a).** For sample cartridge. Sources of equipment are Tisch Environmental, Village of Cleves, OH and University Research Glassware, Chapel Hill, NC.

**9.1.4 Sample cartridge aluminum shipping containers (see Figure 5b).** For sample cartridge shipping. Sources of equipment are Tisch Environmental, Village of Cleves, OH and University Research Glassware, Chapel Hill, NC.

**9.1.5 Glass sample cartridge (see Figure 5a).** For sample collection. Sources of equipment are Tisch Environmental, Village of Cleves, OH; Thermo Environmental Instruments, Inc., 8 West Forge Parkway, Franklin, MA; University Research Glassware, 116 S. Merritt Mill Road, Chapel Hill, NC; and Supelco, Supelco Park, Bellefonte, PA.

**9.1.6 Aluminum foil.** Best source.

**9.1.7 Hexane, reagent grade.** Best source.

### 9.2 Sample Extraction and Concentration

**9.2.1 Methylene chloride.** Chromatographic grade, glass-distilled, best source.

**9.2.2 Sodium sulfate-anhydrous (ACS).** Granular (purified by washing with methylene chloride followed by heating at 400°C for 4 hours in a shallow tray).

**9.2.3 Boiling chips.** Solvent extracted or heated in a muffle furnace at 450°C for 2 hours, approximately 10/40 mesh (silicon carbide or equivalent).

- 9.2.4 **Nitrogen.** High purity grade, best source.
- 9.2.5 **Ether.** Chromatographic grade, glass-distilled, best source.
- 9.2.6 **Hexane.** Chromatographic grade, glass-distilled, best source.
- 9.2.7 **Dibromobiphenyl.** Chromatographic grade, best source. Used for internal standard.
- 9.2.8 **Decafluorobiphenyl.** Chromatographic grade, best source. Used for internal standard.
- 9.2.9 **Glass wool.** Silanized, extracted with methylene chloride and hexane, and dried.
- 9.2.10 **Diethyl ether.** High purity, glass distilled.
- 9.2.11 **Hexane.** High purity, glass distilled.
- 9.2.12 **Silica gel.** High purity, type 60, 70-230 mesh.
- 9.2.13 **Round bottom evaporative flask.** 500 mL, 24/40 joints, best source.
- 9.2.14 **Capacity soxhlet extractors.** 500 mL, with reflux condensers, best source.
- 9.2.15 **Kuderna-Danish concentrator.** 500 mL, with Snyder columns, best source.
- 9.2.16 **Graduated concentrator tubes.** 10 mL, with 19/22 stoppers, best source.
- 9.2.17 **Graduated concentrator tubes.** 1 mL, with 14/20 stoppers, best source.
- 9.2.18 **TFE fluorocarbon tape.** 1/2 in., best source.
- 9.2.19 **Filter tubes.** Size 40-mm (I.D.) x 80-mm.
- 9.2.20 **Serum vials.** 1 mL and 5 mL, fitted with caps lined with TFE fluorocarbon.
- 9.2.21 **Pasteur pipetter.** 9 in., best source.
- 9.2.22 **Glass wool.** Fired at 500°C, best source.
- 9.2.23 **Alumina.** Activity Grade IV, 100/200 mesh.
- 9.2.24 **Glass chromatographic column.** 2-mm I.D. x 15-cm long.
- 9.2.25 **Vacuum oven.** Connected to water aspirator, best source.
- 9.2.26 **Die.** Best source.
- 9.2.27 **Ice chest.** Best source.
- 9.2.28 **Silicic Acid.** Pesticide quality, best source.
- 9.2.29 **Octachloronaphthalene (OCN).** Research grade, best source.
- 9.2.30 **Florisil.** Pesticide quality, best source.

### 9.3 GC Sample Analysis

- 9.3.1 **Gas cylinders of hydrogen, nitrogen, argon/methane, and helium.** Ultra high purity, best source.
- 9.3.2 **Combustion air.** Ultra high purity, best source.
- 9.3.3 **Zero air.** Zero air may be obtained from a cylinder or zero-grade compressed air scrubbed with Drierite® or silica gel and 5A molecular sieve or activated charcoal, or by catalytic cleanup of ambient air. All zero air should be passed through a liquid argon cold trap for final cleanup.
- 9.3.4 **Chromatographic-grade stainless steel tubing and stainless steel fitting.** For interconnections, Alltech Applied Science, 2051 Waukegan Road, Deerfield, IL 60015, 312-948-8600, or equivalent.

*[Note: All such materials in contact with the sample, analyte, or support gases prior to analysis should be stainless steel or other inert metal. Do not use plastic or Teflon® tubing or fittings.]*

## 10. Preparation of PUF Sampling Cartridge

*[Note: This method was developed using the PS-1 sample cartridge provided by General Metal Works, Village of Cleves, OH as a guideline. EPA has experience in use of this equipment during various field monitoring*

*programs over the last several years. Other manufacturers' equipment should work as well. However, modifications to these procedures may be necessary if another commercially available sampler is selected.]*

## 10.1 Summary of Method

**10.1.1** This part of Compendium Method TO-4A discusses pertinent information regarding the preparation and cleaning of the filter, adsorbent, and filter/adsorbent cartridge assembly. The separate batches of filters and adsorbents are extracted with the appropriate solvent.

**10.1.2** At least one PUF cartridge assembly and one filter from each batch, or 10 percent of the batch, whichever is greater, should be tested and certified clean before the batch is considered for field use.

## 10.2 Preparation of Sampling Cartridge

**10.2.1** Bake the Whatman QMA-4 quartz filters at 400°C for 5 hours before use.

**10.2.2** Set aside the filters in a clean container for shipment to the field or prior to combining with the PUF glass cartridge assembly for certification prior to field deployment.

**10.2.3** The PUF plugs are 6.0-cm diameter cylindrical plugs cut from 3-inch sheet stock and should fit, with slight compression, in the glass cartridge, supported by the wire screen (see Figure 2). During cutting, rotate the die at high speed (e.g., in a drill press) and continuously lubricate with deionized or distilled water. Pre-cleaned PUF plugs can be obtained from many of the commercial sources identified in Section 9.1.2.

**10.2.4** For initial cleanup, place the PUF plugs in a Soxhlet apparatus and extract with acetone for 16 hours at approximately 4 cycles per hour. When cartridges are reused, use diethyl ether/hexane (10 percent volume/volume [v/v]) as the cleanup solvent.

*[Note: A modified PUF cleanup procedure can be used to remove unknown interference components of the PUF blank. This method consists of rinsing 50 times with toluene, acetone, and diethyl ether/hexane (5 to 10 percent v/v), followed by Soxhlet extraction. The extracted PUF is placed in a vacuum oven connected to a water aspirator and dried at room temperature for approximately 2 to 4 hours (until no solvent odor is detected). Alternatively, they may be dried at room temperature in an air-tight container with circulating nitrogen (zero grade). Place the clean PUF plug into a labeled glass sampling cartridge using gloves and forceps. Wrap the cartridge with hexane-rinsed aluminum foil and placed in a jar fitted with TFE fluorocarbon-lined caps. The foil wrapping may also be marked for identification using a blunt probe. The extract from the Soxhlet extraction procedure from each batch may be analyzed to determine initial cleanliness prior to certification.]*

**10.2.5** Fit a nickel or stainless steel screen (mesh size 200/200) to the bottom of a hexane-rinsed glass sampling cartridge to retain the PUF adsorbents, as illustrated in Figure 2. Place the Soxhlet-extracted, vacuum-dried PUF (2.5-cm thick by 6.5-cm diameter) on top of the screen in the glass sampling cartridge using polyester gloves.

**10.2.6** Wrap the sampling cartridge with hexane-rinsed aluminum foil, cap with the Teflon® end caps, place in a cleaned labeled aluminum shipping container, and seal with Teflon® tape. Analyze at least 1 PUF plug from each batch of PUF plugs using the procedure described in Section 10.3, before the batch is considered acceptable for field use. A blank level of <10 ng/plug and filter for single component compounds is considered to be acceptable. For multiple component mixtures (e.g., PCBs), the blank level should be <100 ng/plug and filter. Cartridges are considered clean for up to 30 days from date of certification when stored in their sealed containers.



### 10.3 Procedure for Certification of PUF Cartridge Assembly

**10.3.1** Extract 1 filter and PUF adsorbent cartridge by Soxhlet extraction and concentrate using a Kuderna-Danish (K-D) evaporator for each lot of filters and cartridges sent to the field.

**10.3.2** Assemble the Soxhlet apparatus. Charge the Soxhlet apparatus (see Figure 4a) with 300 mL of the extraction solvent [10 percent (v/v) diethyl ether/hexane] and reflux for 2 hours. Let the apparatus cool, disassemble it, and discard the used extraction solvent. Transfer the filter and PUF glass cartridge to the Soxhlet apparatus (the use of an extraction thimble is optional).

*[Note: The filter and adsorbent assembly are extracted together in order to reach detection limits, to minimize cost and to prevent misinterpretation of the data. Separate analyses of the filter and PUF would not yield useful information about the physical state of most of the common pesticides and PCBs at the time of sampling due to evaporative losses of the analyte from the filter during sampling.]*

**10.3.3** Add between 300 and 350 mL of diethyl ether/hexane (10 percent v/v) to the Soxhlet apparatus. Reflux the sample for 18 hours at a rate of at least 3 cycles per hour. Allow to cool, then disassemble the apparatus.

**10.3.4** Assemble a K-D concentrator (see Figure 4b) by attaching a 10-mL concentrator tube to a 500-mL evaporative flask.

**10.3.5** Transfer the extract by pouring it through a drying column containing about 10 cm of anhydrous granular sodium sulfate (see Figure 4c) and collect the extract in the K-D concentrator. Rinse the Erlenmeyer flask and column with 20 to 30 mL of 10 percent diethyl ether/hexane to complete the quantitative transfer.

**10.3.6** Add 1 or 2 clean boiling chips and attach a 3-ball Snyder column to the evaporative flask. Pre-wet the Snyder column by adding about 1 mL of the extraction solvent to the top of the column. Place the K-D apparatus on a hot water bath (50°C) so that the concentrator tube is partially immersed in the hot water, and the entire lower rounded surface of the flask is bathed with hot vapor. Adjust the vertical position of the apparatus and the water temperature as required to complete the concentration in one hour. At the proper rate of distillation, the balls of the column will actively chatter but the chambers will not flood with condensed solvent. When the apparent volume of liquid reaches approximately 5 mL, remove the K-D apparatus from the water bath and allow it to drain and cool for at least 5 minutes. Remove the Snyder column and rinse the flask and its lower joint into the concentrator tube with 5 mL of hexane. A 5-mL syringe is recommended for this operation.

*[Note: The solvent may have to be exchanged to another solvent to meet the requirements of the analytical procedure selected for the target analytes.]*

**10.3.7** Concentrate the extract to 1 mL and analyze according to Section 13.

**10.3.8** Acceptable levels of common pesticides must be less than 10 ng for each pair of filter and adsorbent assembly analyzed. For multiple component mixtures (e.g., PCBs), the blank level should be less than 100 ng for each pair of filter and adsorbent. Once certified clean, the cartridges can be shipped to the field without being chilled.

## 11. Assembly, Calibration and Collection Using High-Volume Sampling System

*[Note: This method was developed using the PS-1 semi-volatile sampler provided by General Metal Works, Village of Cleves, OH as a guideline. EPA has experience in use of this equipment during various field monitoring programs over the last several years. Other manufacturers' equipment should work as well.]*

*However, modifications to these procedures may be necessary if another commercially available sampler is selected.]*

### 11.1 Description of Sampling Apparatus

The entire sampling system is diagrammed in Figure 1. This apparatus was developed to operate at a rate of 4 to 10 scfm (0.114 to 0.285 std m<sup>3</sup>/min) and is used by EPA for high-volume sampling of ambient air. The method write-up presents the use of this device.

The sampling module (see Figure 2) consists of a filter and a glass sampling cartridge containing the PUF utilized to concentrate common pesticides and PCBs from the air. A field portable unit has been developed by EPA (see Figure 3).

### 11.2 Calibration of Sampling System

Each sampler should be calibrated (1) when new, (2) after major repairs or maintenance, (3) whenever any audit point deviates from the calibration curve by more than 7 percent, (4) before/after each sampling event, and (5) when a different sample collection media, other than that which the sampler was originally calibrated to, will be used for sampling.

**11.2.1 Calibration of Orifice Transfer Standard.** Calibrate the modified high volume air sampler in the field using a calibrated orifice flow rate transfer standard. Certify the orifice transfer standard in the laboratory against a positive displacement rootsmeter (see Figure 6). Once certified, the recertification is performed rather infrequently if the orifice is protected from damage. Recertify the orifice transfer standard performed once per year utilizing a set of five multiple resistance plates.

*[Note: The set of five multihole resistance plates are used to change the flow through the orifice so that several points can be obtained for the orifice calibration curve. The following procedure outlines the steps to calibrate the orifice transfer standard in the laboratory.]*

**11.2.1.1** Record the room temperature ( $T_1$  in °C) and barometric pressure ( $P_b$  in mm Hg) on the Orifice Calibration Data Sheet (see Figure 7). Calculate the room temperature in K (absolute temperature) and record on Orifice Calibration Data Sheet.

$$T_1 \text{ in K} = 273^\circ + T_1 \text{ in } ^\circ\text{C}$$

**11.2.1.2** Set up laboratory orifice calibration equipment as illustrated in Figure 6. Check the oil level of the rootsmeter prior to starting. There are 3 oil level indicators, 1 at the clear plastic end and 2 site glasses, 1 at each end of the measuring chamber.

**11.2.1.3** Check for leaks by clamping both manometer lines, blocking the orifice with cellophane tape, turning on the high volume motor, and noting any change in the rootsmeter's reading. If the rootsmeter's reading changes, there is a leak in the system. Eliminate the leak before proceeding. If the rootsmeter's reading remains constant, turn off the hi-vol motor, remove the cellophane tape, and unclamp both manometer lines.

**11.2.1.4** Install the 5-hole resistance plate between the orifice and the filter adapter.

**11.2.1.5** Turn manometer tubing connectors 1 turn counter-clockwise. Make sure all connectors are open.

**11.2.1.6** Adjust both manometer midpoints by sliding their movable scales until the zero point corresponds with the meniscus. Gently shake or tap to remove any air bubbles and/or liquid remaining on tubing connectors. (If additional liquid is required for the water manometer, remove tubing connector and add clean water.)

**11.2.1.7** Turn on the high volume motor and let it run for 5 minutes to set the motor brushes. Turn the motor off. Insure manometers are set to zero. Turn the high volume motor on.

**11.2.1.8** Record the time, in minutes, required to pass a known volume of air (approximately 200 to 300 ft<sup>3</sup> of air for each resistance plate) through the rootsmeter by using the rootsmeter's digital volume dial and a stopwatch.

**11.2.1.9** Record both manometer readings-orifice water manometer ( $\Delta H$ ) and rootsmeter mercury manometer ( $\Delta P$ ) on Orifice Calibration Data Sheet (see Figure 7).

*[Note:  $\Delta H$  is the sum of the difference from zero (0) of the two column heights.]*

**11.2.1.10** Turn off the high volume motor.

**11.2.1.11** Replace the 5-hole resistance plate with the 7-hole resistance plate.

**11.2.1.12** Repeat Sections 11.2.1.3 through 11.2.1.11.

**11.2.1.13** Repeat for each resistance plate. Note results on Orifice Calibration Data Sheet (see Figure 7). Only a minute is needed for warm-up of the motor. Be sure to tighten the orifice enough to eliminate any leaks. Also check the gaskets for cracks.

*[Note: The placement of the orifice prior to the rootsmeter causes the pressure at the inlet of the rootsmeter to be reduced below atmospheric conditions, thus causing the measured volume to be incorrect. The volume measured by the rootsmeter must be corrected.]*

**11.2.1.14** Correct the measured volumes on the Orifice Calibration Data Sheet:

$$V_{\text{std}} = V_{\text{m}} \left( \frac{P_{\text{a}} - \Delta P}{P_{\text{std}}} \right) \left( \frac{T_{\text{std}}}{T_{\text{a}}} \right)$$

where:

$V_{\text{std}}$  = standard volume, std m<sup>3</sup>

$V_{\text{m}}$  = actual volume measured by the rootsmeter, m<sup>3</sup>

$P_{\text{a}}$  = barometric pressure during calibration, mm Hg

$\Delta P$  = differential pressure at inlet to volume meter, mm Hg

$P_{\text{std}}$  = 760 mm Hg

$T_{\text{std}}$  = 273 + 25°C = 298 K

$T_{\text{a}}$  = ambient temperature during calibration, K.

**11.2.1.15** Record standard volume on Orifice Calibration Data Sheet.

**11.2.1.16** The standard flow rate as measured by the rootsmeter can now be calculated using the following formula:

$$Q_{\text{std}} = \frac{V_{\text{std}}}{\theta}$$

where:

$Q_{\text{std}}$  = standard volumetric flow rate, std m<sup>3</sup>/min

$\theta$  = elapsed time, min

11.2.1.17 Record the standard flow rates to the nearest 0.01 std m<sup>3</sup>/min.

11.2.1.18 Calculate and record  $\sqrt{\Delta H (P_1/P_{std})(298/T_1)}$  value for each standard flow rate.

11.2.1.19 Plot each  $\sqrt{\Delta H (P_1/P_{std})(298/T_1)}$  value (y-axis) versus its associated standard flow rate (x-axis) on arithmetic graph paper and draw a line of best fit between the individual plotted points.

[*Note: This graph will be used in the field to determine standard flow rate.*]

### 11.2.2 Calibration of the High Volume Sampling System Utilizing Calibrated Orifice Transfer Standard

For this calibration procedure, the following conditions are assumed in the field:

- The sampler is equipped with a valve to control sample flow rate.
- The sample flow rate is determined by measuring the orifice pressure differential, using a Magnehelic gauge.
- The sampler is designed to operate at a standardized volumetric flow rate of 8 ft<sup>3</sup>/min (0.225 m<sup>3</sup>/min), with an acceptable flow rate range within 10 percent of this value.
- The transfer standard for the flow rate calibration is an orifice device. The flow rate through the orifice is determined by the pressure drop caused by the orifice and is measured using a "U" tube water manometer or equivalent.
- The sampler and the orifice transfer standard are calibrated to standard volumetric flow rate units (scfm or scmm).
- An orifice transfer standard with calibration traceable to NIST is used.
- A "U" tube water manometer or equivalent, with a 0- to 16-inch range and a maximum scale division of 0.1 inch, will be used to measure the pressure in the orifice transfer standard.
- A Magnehelic gauge or equivalent, with a 9- to 100-inch range and a minimum scale division of 2 inches for measurements of the differential pressure across the sampler's orifice is used.
- A thermometer capable of measuring temperature over the range of 32° to 122°F (0° to 50°C) to ±2°F (±1°C) and referenced annually to a calibrated mercury thermometer is used.
- A portable aneroid barometer (or equivalent) capable of measuring ambient barometric pressure between 500 and 800 mm Hg (19.5 and 31.5 in. Hg) to the nearest mm Hg and referenced annually to a barometer of known accuracy is used.
- Miscellaneous handtools, calibration data sheets or station log book, and wide duct tape are available.

11.2.2.1 Set up the calibration system as illustrated in Figure 8. Monitor the airflow through the sampling system with a venturi/Magnehelic assembly, as illustrated in Figure 8. Audit the field sampling system once per quarter using a flow rate transfer standard, as described in the EPA *High Volume-Sampling Method, 40 CFR 50, Appendix B*. Perform a single-point calibration before and after each sample collection, using the procedures described in Section 11.2.3.

11.2.2.2 Prior to initial multi-point calibration, place an empty glass cartridge in the sampling head and activate the sampling motor. Fully open the flow control valve and adjust the voltage variator so that a sample flow rate corresponding to 110 percent of the desired flow rate (typically 0.20 to 0.28 m<sup>3</sup>/min) is indicated on the Magnehelic gauge (based on the previously obtained multipoint calibration curve). Allow the motor to warm up for 10 minutes and then adjust the flow control valve to achieve the desired flow rate. Turn off the sampler. Record the ambient temperature and barometric pressure on the Field Calibration Data Sheet (see Figure 9).

11.2.2.3 Place the orifice transfer standard on the sampling head and attach a manometer to the tap on the transfer standard, as illustrated in Figure 8. Properly align the retaining rings with the filter holder and secure

by tightening the three screw clamps. Connect the orifice transfer standard by way of the pressure tap to a manometer using a length of tubing. Set the zero level of the manometer or Magnehelic. Attach the Magnehelic gauge to the sampler venturi quick release connections. Adjust the zero (if needed) using the zero adjust screw on face of the gauge.

**11.2.2.4** To leak test, block the orifice with a rubber stopper, wide duct tape, or other suitable means. Seal the pressure port with a rubber cap or similar device. Turn on the sampler.

*Caution:* Avoid running the sampler for too long a time with the orifice blocked. This precaution will reduce the chance that the motor will be overheated due to the lack of cooling air. Such overheating can shorten the life of the motor.

**11.2.2.5** Gently rock the orifice transfer standard and listen for a whistling sound that would indicate a leak in the system. A leak-free system will not produce an upscale response on the sampler's Magnehelic. Leaks are usually caused either by damaged or missing gaskets by cross-threading and/or not screwing sample cartridge together tightly. All leaks must be eliminated before proceeding with the calibration. When the sample is determined to be leak-free, turn off the sampler and unblock the orifice. Now remove the rubber stopper or plug from the calibrator orifice.

**11.2.2.6** Turn the flow control valve to the fully open position and turn the sampler on. Adjust the flow control valve until a Magnehelic reading of approximately 70 in. is obtained. Allow the Magnehelic and manometer readings to stabilize and record these values on the orifice transfer Field Calibration Data Sheet (see Figure 9).

**11.2.2.7** Record the manometer reading under Y1 and the Magnehelic reading under Y2 on the Field Calibration Data Sheet. For the first reading, the Magnehelic should still be at 70 inches as set above.

**11.2.2.8** Set the Magnehelic to 60 inches by using the sampler's flow control valve. Record the manometer (Y1) and Magnehelic (Y2) readings on the Field Calibration Data Sheet (see Figure 9).

**11.2.2.9** Repeat the above steps using Magnehelic settings of 50, 40, 30, 20, and 10 inches.

**11.2.2.10** Turn the voltage variator to maximum power, open the flow control valve, and confirm that the Magnehelic reads at least 100 inches. Turn off the sampler and confirm that the Magnehelic reads zero.

**11.2.2.11** Read and record the following parameters on the Field Calibration Data Sheet. Record the following on the calibration data sheet:

Data, job number, and operator's signature;

- Sampler serial number;
- Ambient barometric pressure; and
- Ambient temperature.

**11.2.2.12** Remove the "dummy" cartridge and replace with a sample cartridge.

**11.2.2.13** Obtain the Manufacturer High Volume Orifice Calibration Certificate.

**11.2.2.14** If not performed by the manufacturer, calculate values for each calibrator orifice static pressure (Column 6, inches of water) on the manufacturer's calibration certificate using the following equation:

$$\sqrt{\Delta H(P_a/760)(298/[T_a + 273])}$$

where:

$P_a$  = the barometric pressure (mm Hg) at time of manufacturer calibration, mm Hg

$T_a$  = temperature at time of calibration, °C

**11.2.2.15** Perform a linear regression analysis using the values in Column 7 of the manufacturer High Volume Orifice Calibration Certificate for flow rate ( $Q_{std}$ ) as the "X" values and the calculated values as the Y

values. From this relationship, determine the correlation (CC1), intercept (B1), and slope (M1) for the Orifice Transfer Standard.

**11.2.2.16** Record these values on the Field Calibration Data Sheet (see Figure 9).

**11.2.2.17** Using the Field Calibration Data Sheet values (see Figure 9), calculate the Orifice Manometer Calculated Values (Y3) for each orifice manometer reading using the following equation:

**Y3 Calculation**

$$Y3 = [Y1(P_a/760)(298/\{T_a + 273\})]^{1/2}$$

**11.2.2.18** Record the values obtained in Column Y3 on the Field Calibration Data Sheet (see Figure 9).

**11.2.2.19** Calculate the Sampler Magnehelic Calculate Values (Y4) using the following equation:

**Y4 Calculation**

$$Y4 = [Y2(P_a/760)(298/\{T_a + 273\})]^{1/2}$$

**11.2.2.20** Record the value obtained in Column Y4 on the Field Calibration Data Sheet (see Figure 9).

**11.2.2.21** Calculate the Orifice Flow Rate (X1) in scm, using the following equation:

**X1 Calculation**

$$X1 = \frac{Y3 - B1}{M1}$$

**11.2.2.22** Record the values obtained in Column X1, on the Field Calibration Data Sheet (see Figure 9).

**11.2.2.23** Perform a linear regression of the values in Column X1 (as X) and the values in Column Y4 (as Y). Record the relationship for correlation (CC2), intercept (B2), and slope (M2) on the Field Calibration Data Sheet.

**11.2.2.24** Using the following equation, calculate a set point (SP) for the manometer to represent a desired flow rate:

$$\text{Set point (SP)} = [( \text{Expected } P_a ) / ( \text{Expected } T_a ) ( T_{\text{std}} / P_{\text{std}} ) ] [ M2 ( \text{Desired flow rate} ) + B2 ]^2$$

where:

- $P_a$  = Expected atmospheric pressure ( $P_a$ ), mm Hg
- $T_a$  = Expected atmospheric temperature ( $T_a$ ), °C
- M2 = Slope of developed relationship
- B2 = Intercept of developed relationship
- $T_{\text{std}}$  = Temperature standard, 25°C
- $P_{\text{std}}$  = Pressure standard, 760 mm Hg

**11.2.2.25** During monitoring, calculate a flow rate from the observed Magnehelic reading using the following equations:

$$Y5 = [\text{Average Magnehelic Reading } (\Delta H) (P_a/T_a)(T_{std}/P_{std})]^{1/2}$$

$$X2 = \frac{Y5 - B2}{M2}$$

where:

Y5 = Corrected Magnehelic reading  
X2 = Instant calculated flow rate, scfm

**11.2.2.26** The relationship in calibration of a sampling system between Orifice Transfer Standard and flow rate through the sampler is illustrated in Figure 10.

### **11.2.3 Single-Point Audit of the High Volume Sampling System Utilizing Calibrated Orifice Transfer Standard**

Single point calibration checks are required as follows:

- Prior to the start of each 24-hour test period.
- After each 24-hour test period. The post-test calibration check may serve as the pre-test calibration check for the next sampling period if the sampler is not moved.
- Prior to sampling after a sample is moved.

For samplers, perform a calibration check for the operational flow rate before each 24-hour sampling event and when required as outlined in the user quality assurance program. The purpose of this check is to track the sampler's calibration stability. Maintain a control chart presenting the percentage difference between a sampler's indicated and measured flow rates. This chart provides a quick reference of sampler flow-rate drift problems and is useful for tracking the performance of the sampler. Either the sampler log book or a data sheet will be used to document flowcheck information. This information includes, but is not limited to, sampler and orifice transfer standard serial number, ambient temperature, pressure conditions, and collected flow-check data.

In this subsection, the following is assumed:

- The flow rate through a sampler is indicated by the orifice differential pressure;
- Samplers are designed to operate at an actual flow rate of 8 scfm, with a maximum acceptable flow-rate fluctuation range of  $\pm 10$  percent of this value;
- The transfer standard will be an orifice device equipped with a pressure tap. The pressure is measured using a manometer; and
- The orifice transfer standard's calibration relationship is in terms of standard volumetric flow rate ( $Q_{std}$ ).

**11.2.3.1** Perform a single point flow audit check before and after each sampling period utilizing the Calibrated Orifice Transfer Standard (see Section 11.2.1).

**11.2.3.2** Prior to single point audit, place a "dummy" glass cartridge in the sampling head and activate the sampling motor. Fully open the flow control valve and adjust the voltage variator so that a sample flow rate corresponding to 110 percent of the desired flow rate (typically 0.19 to 0.28 m<sup>3</sup>/min) is indicated on the Magnehelic gauge (based on the previously obtained multipoint calibration curve). Allow the motor to warm up for 10 minutes and then adjust the flow control valve to achieve the desired flow rate. Turn off the sampler. Record the ambient temperature and barometric pressure on the Field Test Data Sheet (see Figure 11).

**11.2.3.3** Place the flow rate transfer standard on the sampling head.

**11.2.3.4** Properly align the retaining rings with the filter holder and secure by tightening the 3 screw clamps. Connect the flow rate transfer standard to the manometer using a length of tubing.

**11.2.3.5** Using tubing, attach 1 manometer connector to the pressure tap of the transfer standard. Leave the other connector open to the atmosphere.

**11.2.3.6** Adjust the manometer midpoint by sliding the movable scale until the zero point corresponds with the water meniscus. Gently shake or tap to remove any air bubbles and/or liquid remaining on tubing connectors. (If additional liquid is required, remove tubing connector and add clean water.)

**11.2.3.7** Turn on high-volume motor and let run for 5 minutes.

**11.2.3.8** Record the pressure differential indicated,  $\Delta H$ , in inches of water, on the Field Test Data Sheet. Be sure stable  $\Delta H$  has been established.

**11.2.3.9** Record the observed Magnahelic gauge reading, in inches of water, on the Field Test Data Sheet. Be sure stable  $\Delta M$  has been established.

**11.2.3.10** Using previous established Orifice Transfer Standard curve, calculate  $Q_{xs}$  (see Section 11.2.2.23).

**11.2.3.11** This flow should be within  $\pm 10$  percent of the sampler set point, normally, 8 ft<sup>3</sup>. If not, perform a new multipoint calibration of the sampler.

**11.2.3.12** Remove flow rate transfer standard and dummy adsorbent cartridge.

### 11.3 Sample Collection

#### 11.3.1 General Requirements

**11.3.1.1** The sampler should be located in an unobstructed area, at least 2 meters from any obstacle to air flow. The exhaust hose should be stretched out in the downwind direction to prevent recycling of air into the sample head.

**11.3.1.2** All cleaning and sample module loading and unloading should be conducted in a controlled environment, to minimize any chance of potential contamination.

**11.3.1.3** When new or when using the sampler at a different location, all sample contact areas need to be cleared. Use triple rinses of reagent grade hexane contained in Teflon® rinse bottles. Allow the solvent to evaporate before loading the PUF modules.

#### 11.3.2 Preparing Cartridge for Sampling

**11.3.2.1** Detach the lower chamber of the cleaned sample head. While wearing disposable, clean, lint-free nylon, or powder-free surgical gloves, remove a clean glass adsorbent module from its shipping container. Remove the Teflon® end caps. Replace the end caps in the sample container to be reused after the sample has been collected.

**11.3.2.2** Insert the glass module into the lower chamber and tightly reattach the lower chambers to the module.

**11.3.2.3** Using clean rinsed (with hexane) Teflon-tipped forceps, carefully place a clean conditioned fiber filter atop the filter holder and secure in place by clamping the filter holder ring over the filter. Place the aluminum protective cover on top of the cartridge head. Tighten the 3 screw clamps. Ensure that all module connections are tightly assembled. Place a small piece of aluminum foil on the ball-joint of the sample cartridge to protect from back-diffusion of semi-volatile into the cartridge during transporting to the site.

*[Note: Failure to do so could result in air flow leaks at poorly sealed locations which could affect sample representativeness.]*



11.3.2.4 Place in a carrying bag to take to the sampler.

### 11.3.3 Collection

11.3.3.1 After the sampling system has been assembled, perform a single point flow check as described in Sections 11.2.3.

11.3.3.2 With the empty sample module removed from the sampler, rinse all sample contact areas using reagent grade hexane in a Teflon® squeeze bottle. Allow the hexane to evaporate from the module before loading the samples.

11.3.3.3 With the sample cartridge removed from the sampler and the flow control valve fully open, turn the pump on and allow it to warm-up for approximately 5 minutes.

11.3.3.4 Attach a "dummy" sampling cartridge loaded with the exact same type of filter and PUF media to be used for sample collection.

11.3.3.5 Turn the sampler on and adjust the flow control valve to the desired flow as indicated by the Magnehelic gauge reading determined in Section 11.2.2.24. Once the flow is properly adjusted, take extreme care not to inadvertently alter its setting.

11.3.3.6 Turn the sampler off and remove the "dummy" module. The sampler is now ready for field use.

11.3.3.7 Check the zero reading of the sampler Magnehelic. Record the ambient temperature, barometric pressure, elapsed time meter setting, sampler serial number, filter number, and PUF cartridge number on the Field Test Data Sheet (see Figure 11). Attach the loaded sampler cartridge to the sampler.

11.3.3.8 Place the voltage variator and flow control valve at the settings used in Section 11.3.2, and the power switch. Activate the elapsed time meter and record the start time. Adjust the flow (Magnehelic setting), if necessary, using the flow control valve.

11.3.3.9 Record the Magnehelic reading every 6 hours during the sampling period. Use the calibration factors (see Section 11.2.2.24) to calculate the desired flow rate. Record the ambient temperature, barometric pressure, and Magnehelic reading at the beginning and during sampling period.

### 11.3.4 Sample Recovery

11.3.4.1 At the end of the desired sampling period, turn the power off. Carefully remove the sampling head containing the filter and adsorbent cartridge. Place the protective "plate" over the filter to protect cartridge during transport to clean recovery area. Also, place a piece of aluminum foil around the bottom of adsorbent sampler head.

11.3.4.2 Perform a final calculated sampler flow check using the calibration orifice, as described in Section 11.3.2. If calibration deviates by more than 10 percent from initial reading, mark the flow data for that sample as suspect and inspect and/or remove from service, record results on Field Test Data Sheet, Figure 11.

11.3.4.3 Transport adsorbent sampler head to a clean recovery area.

11.3.4.4 While wearing disposable lint free nylon or powder-free surgical gloves, remove the PUF cartridge from the lower module chamber and lay it on the retained aluminum foil in which the sample was originally wrapped.

11.3.4.5 Carefully remove the glass fiber filter from the upper chamber using clean Teflon®-tipped forceps.

11.3.4.6 Fold the filter in half twice (sample side inward) and place it in the glass cartridge atop the PUF.

11.3.4.7 Wrap the combined samples in the original hexane rinsed aluminum foil, attached Teflon® end caps and place them in their *original* aluminum sample container. Complete a sample label and affix it to the aluminum shipping container.

11.3.4.8 Chain-of-custody should be maintained for all samples. Store the containers under dry ice and protect from UV light to prevent possibly photo-decomposition of collected analytes. If the time span between sample collection and laboratory analysis is to exceed 24 hours, refrigerate sample at 4°C.

11.3.4.9 Return at least 1 field filter/PUF blank to the laboratory with each group of samples. Treat a field blank exactly as the sample except that no air is drawn through the filter/adsorbent cartridge assembly.

**11.3.4.10** Ship and store field samples chilled (<4°) (blue ice is acceptable) until receipt at the analytical laboratory, after which they should be refrigerated at less than or equal to 4°C. Extraction must be performed within 7 days of sampling and analysis within 40 days of extraction.

## 12. Sample Extraction Procedure

*[Note: Sample extraction should be performed under a properly ventilated hood.]*

### 12.1 Sample Extraction

**12.1.1** All samples should be extracted within 1 week after collection. All samples should be stored at <4°C until extracted.

**12.1.2** All glassware should be washed with a suitable detergent; rinsed with deionized water, acetone, and hexane; rinsed again with deionized water; and fired in an oven (500°C).

**12.1.3** Prepare a spiking solution for determination of extraction efficiency. The spiking solution should contain one or more surrogate compounds that have chemical structures and properties similar to those of the analytes of interest. Octachloronaphthalene (OCN) and dibutylchloroendate have been used as surrogates for determination of organochlorine pesticides by GC with an ECD. Tetrachloro-m-xylene and decachlorobiphenyl can also be used together to insure recovery of early and late eluting compounds. For organophosphate pesticides, tributylphosphate or triphenylphosphate may be employed as surrogates. The surrogate solution should be prepared so that addition of 100 µL into the PUF plug results in an extract containing the surrogate compound at the high end of the instrument's calibration range. As an example, the spiking solution for OCN is prepared by dissolving 10 mg of OCN in 10 mL of 10% acetone in n-hexane, followed by serial dilution n-hexane to achieve a final spiking solution of OCN is 1 µg/mL.

*[Note: Use the recoveries of the surrogate compounds to monitor for unusual matrix effects and gross sample processing errors. Evaluate surrogate recovery for acceptance by determining whether the measured concentration falls within the acceptance limits of 60-120 percent.]*

**12.1.4** The extracting solution (10% diethyl ether/hexane) is prepared by mixing 1800 mL of freshly opened hexane and 200 mL of freshly opened diethyl ether (preserved with ethanol) to a flask.

**12.1.5** All clean glassware, forceps, and other equipment to be used should be rinsed with 10% diethyl ether/hexane and placed on rinsed (10% diethyl ether/hexane) aluminum foil until use. The condensing towers should also be rinsed with 10% diethyl ether/hexane. Then add 700 mL of 10% diethyl ether/hexane to the 1,000 mL round bottom flask and add up to three boiling granules.

**12.1.6** Using precleaned (i.e., 10% diethyl ether/hexane Soxhlet extracted) cotton gloves, the filter/PUF cartridge is removed from the sealed container, the PUF removed from the glass cartridge, and the filter/PUF together are placed into the 300 mL Soxhlet extractor using prerinsed forceps.

**12.1.7** Before extraction begins, add 100 µL of the OCN solution directly to the top of the PUF plug.

*[Note: Incorporating a known concentration of the solution onto the sample provides a quality assurance check to determine recovery efficiency of the extraction and analytical processes.]*

**12.1.8** Connect the Soxhlet extractor to the 1,000 mL boiling flask and condenser. Wet the glass joints with 10% diethyl ether/hexane to ensure a tight seal between the fittings. If necessary, the PUF plug can be adjusted

using forceps to wedge it midway along the length of the siphon. The above procedure should be followed for all samples, with the inclusion of a blank control sample.

**12.1.9** The water flow to the condenser towers of the Soxhlet extraction assembly should be checked and the heating unit turned on. As the samples boil, the Soxhlet extractors should be inspected to ensure that they are filling and siphoning properly (4 to 6 cycles/hour). Samples should cycle for a minimum of 16 hours.

**12.1.10** At the end of the extracting process (minimum of 16 hours), the heating unit is turned off and the sample cooled to room temperature.

**12.1.11** The extracts are then concentrated to 5 mL using a Kuderna-Danish (K-D) apparatus. The K-D is set up, assembled with concentrator tubes, and rinsed. The lower end of the filter tube is packed with glass wool and filled with sodium sulfate to a depth of 40 mm. The filter tube is then placed in the neck of the K-D. The Soxhlet extractors and boiling flasks are carefully removed from the condenser towers and the remaining solvent is drained into each boiling flask. Sample extract is carefully poured through the filter tube into the K-D. Each boiling flask is rinsed three times by swirling hexane along the sides. Once the sample has drained, the filter tube is rinsed down with hexane. Each Snyder column is attached to the K-D and rinsed to wet the joint for a tight seal. The complete K-D apparatus is placed on a steam bath and the sample is evaporated to approximately 5 mL.

*[Note: Do not allow samples to evaporate to dryness.]*

Remove sample from the steam bath, rinse the Snyder column with a minimum of hexane, and allow to cool. Adjust sample volume to 10 mL in a concentrator tube, close with a glass stopper, and seal with TFE fluorocarbon tape. Alternatively, the sample may be quantitatively transferred (with concentrator tube rinsing) to prescored vials and brought up to final volume. Concentrated extracts are stored at <4°C until analyzed. Analysis should occur no later than 40 days after sample extraction.

## 12.2 Sample Cleanup

**12.2.1** If only polar compounds are sought, an alumina cleanup procedure is appropriate. Before cleanup, the sample extract is carefully reduced to 1 mL using a gentle stream of clean nitrogen.

**12.2.2** A glass chromatographic column (2-mm I.D. x 15-cm long) is packed with alumina (7), activity grade IV, and rinsed with approximately 20 mL of n-hexane. The concentrated sample extract is placed on the column and eluted with 10 mL of n-hexane at a rate of 0.5 mL/minute. The eluate volume is adjusted to exactly 10 mL and analyzed as per Section 13.

**12.2.3** If both PCBs and common pesticides are sought, alternate cleanup procedures (8,9) may be required (i.e., silicic acid).

**12.2.4** Finally, class separation and improved specificity can be achieved by column clean-up and separation on Florisil (9).

### 13. Analytical Procedure

#### 13.1 Analysis of Organochlorine Pesticides by Capillary Gas Chromatography with Electron Capture Detector (GC/ECD)

*[Note: Organochlorine pesticides, PCBs and many nonchlorinated pesticides are responsive to electron capture detection (see Table 1). Most of these compounds can be analyzed at concentration of 1 to 50 ng/mL by GC/ECD. The following procedure is appropriate. Sampling and analytical methods that have been used to determine pesticides and PCBs collected from air using a modification of this methodology have been published (14-22).]*

**13.1.1** Select GC column (e.g., 0.3-mm by 30-m DB-5 column) and appropriate GC conditions to separate the target analytes. Typical operating parameters for this column with splitless injection are: Carrier gas-chromatography grade helium at a flow rate of 1 to 2 mL/min and a column head pressure of 7 to 9 psi (48 to 60 kPa); injector temperature of 250°C; detector temperature of 350°C; initial oven temperature of 50°C held for 2.0 min., ramped at 15°C/min to 150°C for 8 min, ramped at 10°C/min to 295°C then held for 5 min; purge time of 1.0 min. A typical injection volume is 2 to 3  $\mu$ L.

**13.1.2** Remove sample extract from refrigerator and allow to warm to room temperature.

**13.1.3** Prepare standard solution from reference materials of known purity. Analytically pure standards of organochlorine pesticides and PCBs are available from several commercial sources.

**13.1.4** Use the standard solutions of the various compounds of interest to determine relative retention times (RRTs) to an internal standard such as p,p'-DDE, aldrin or octachloronaphthalene. Use 1 to 3- $\mu$ L injections or other appropriate volumes.

**13.1.5** Determine detector linearity by injecting standard solutions of three different concentrations (amounts) that bracket the range of analyses. The calibration is considered linear if the relative standard deviation (RSD) of the three response factors for the three standards is 20 percent or less.

**13.1.6** Calibrate the system with a minimum of three levels of calibration standards in the linear range. The low standard should be near the analytical method detection limit. The calibration is considered linear if the relative standard deviation (RSD) of the three response factors for the three standards is 20 percent or less. The initial calibration should be verified by the analysis of a standard from an independent source. Recovery of 85 to 115 percent is acceptable. The initial calibration curve should be verified at the beginning of each day and after every ten samples by the analysis of the midpoint standard; an RPD of 15% or less is acceptable for continuing use of the initial calibration curve.

**13.1.7** Inject 1 to 3  $\mu$ L of sample extract. Record volume injected to the nearest 0.05  $\mu$ L.

**13.1.8** A typical ECD response for a mixture of single component pesticides using a capillary column is illustrated in Figure 12. If the response (peak height or area) exceeds the calibration range, dilute the extract and reanalyze.

**13.1.9** Quantify PCB mixtures by comparison of the total heights or areas of GC peaks (minimum of five) with the corresponding peaks in the best-matching standard. Use Aroclor 1242 for early-eluting PCBs and either Aroclor 1254 or Aroclor 1260 as appropriate for late-eluting PCBs.

**13.1.10** If both PCBs and organochlorine pesticides are present in the same sample, use column chromatographic separation on silicic acid (8,9) prior to GC analysis.

**13.1.11** If polar compounds are present that interfere with GC/ECD analysis, use column chromatographic cleanup or alumina (7), activity grade IV, in accordance with Section 12.2.

**13.1.12** For confirmation use a second GC column such as DB-608. All GC procedures except GC/MS require second column confirmation.

**13.1.13** For improved resolution use a capillary column such as an 0.25-mm I.D. x 30-m DB-5 with 0.25  $\mu\text{m}$  film thickness. The following conditions are appropriate.

- Helium carrier gas at 1 mL/min.
- Column temperature program, 90°C (4 min)/16°C/min to 154°C/4°C/min to 270°C.
- Detector,  $^{63}\text{Ni}$  ECD at 350°C.
- Make up gas, nitrogen, or 5% methane/95% argon at 60 mL/min.
- Splitless injection, 2  $\mu\text{L}$  maximum.
- Injector temperature, 220°C.

**13.1.14** Class separation and improved specificity can be achieved by column chromatographic separation on Florisil (9).

**13.1.15** A Hall electrolytic conductivity detector (HECD) operated in the reductive mode may be substituted for the ECD for improved specificity. Sensitivity, however, will be reduced by at least an order of magnitude.

### **13.2 Analysis of Organophosphorus Pesticides by Capillary Gas Chromatography with Flame Photometric or Nitrogen-Phosphorus Detectors (GC/FPD/NPD)**

*[Note: Organophosphorus pesticides are responsive to flame photometric and nitrogen-phosphorus (alkali flame ionization) detection. Most of these compounds can be analyzed at concentrations of 50 to 500 ng/mL using either of these detectors.]*

**13.2.1** Procedures given in Section 13.1.1 through 13.1.9 and Section 13.1.13 through 13.1.14 apply, except for the selection of surrogates.

**13.2.2** Use tributylphosphate, triphenylphosphate, or other suitable compound(s) as surrogates to verify extraction efficiency and to determine RRTs.

### **13.3 Analysis of Carbamate and Urea Pesticides by Capillary Gas Chromatography with Nitrogen-Phosphorus Detector**

**13.3.1** Trazine, carbamate, and urea pesticides may be determined by capillary GC (DB-5, DB-17, or DB-1701 stationary phase) using nitrogen-phosphorus detection or MS-SIM with detection limits in the 0.05 to 0.2  $\mu\text{L}/\text{mL}$  range. Procedures given in Section 13.1.1 through 13.1.9 and Section 13.1.13 through 13.1.14 apply, except for the selection of surrogates, detector, and make up gas.

**13.3.2** Thermal degradation may be minimized by reducing the injector temperature to 200°C. HPLC may also be used, but detection limits will be higher (1 to 5  $\mu\text{g}/\text{mL}$ ).

**13.3.3** N-methyl carbamates may be determined using reverse-phase high performance liquid chromatography (HPLC) (C-18) (Section 13.4) and post-column derivization with o-phthaldehyde and fluorescence detection (EPA Method 531). Detection limits of 0.01 to 0.1  $\mu\text{g}/\text{mL}$  can be achieved.

### 13.4 Analysis of Carbamate, Urea, Pyrethroid, and Phenolic Pesticides by High Performance Liquid Chromatography (HPLC)

*[Note: Many carbamate pesticides, urea pesticides, pyrethrins, phenols, and other polar pesticides may be analyzed by high HPLC with fixed or variable wavelength UV detection. Either reversed-phase or normal phase chromatography may be used. Detection limits are 0.2 to 10 µg/mL of extract.]*

13.4.1 Select HPLC column (i.e., Zorbax-SIL, 46-mm I.D. x 25-cm, or µ-Bondapak C18, 3.9-mm x 30-cm, or equivalent).

13.4.2 Select solvent system (i.e., mixtures of methanol or acetonitrile with water or mixtures of heptane or hexane with isopropanol).

13.4.3 Follow analytical procedures given in Sections 13.1.2 through 13.1.9.

13.4.4 If interferences are present, adjust the HPLC solvent system composition or use column chromatographic clean-up with silica gel, alumina, or Florisil (9).

13.4.5 An electrochemical detector may be used to improve sensitivity for some ureas, carbonates, and phenolics. Much more care is required in using this detector, particularly in removing dissolved oxygen from the mobile phase and sample extracts.

13.4.6 Chlorophenol (di- through penta-) may be analyzed by GC/ECD or GC/MS after derivatization with pentafluorobenzylbromide (EPA Method 604).

13.4.7 Chlorinated phenoxyacetic acid herbicides and pentachlorophenol can be analyzed by GC/ECD or GC/MS after derivatization with diazomethane (EPA Method 515). DB-5 and DBJ-1701 columns (0.25-mm I.D. x 30-m) at 60 to 300°C/4°C per min have been found to perform well.

### 13.5 Analysis of Pesticides and PCBs by Gas Chromatography with Mass Spectrometry Detection (GC/MS)

*[Note: A mass spectrometer operating in the selected ion monitoring mode is useful for confirmation and identification of pesticides.]*

13.5.1 A mass spectrometer operating in select ion monitoring (SIM) mode can be used as a sensitive detector for multi-residue determination of a wide variety of pesticides. Mass spectrometers are now available that provide detection limits comparable to nitrogen-phosphorus and electron capture detectors.

13.5.2 Most of the pesticides shown in Table 1 have been successfully determined by GC/MS-SIM. Typical GC operating parameters are as described in Section 13.1.1.

13.5.3 The mass spectrometer is typically operated using positive ion electron impact ionization (70 eV). Other instrumental parameters are instrument specific.

13.5.4 p-Terphenyl-d<sub>14</sub> is commonly used as a surrogate for GC/MS analysis.

13.5.5 Quantification is typically performed using an internal standard method. 1,4-Dichlorobenzene, naphthalene-d<sub>8</sub>, acenaphthene-d<sub>10</sub>, phenanthrene-d<sub>10</sub>, chrysene-d<sub>12</sub> and perylene-d<sub>12</sub> are commonly used as internal standards. Procedures given in Section 13.1.1 through 13.1.9 and Section 13.1.13 through 13.1.14 apply, except for the selection of surrogates, detector, and make up gas.

13.5.6 See ASTM Practice D 3687 for injection technique, determination of relative retention times, and other procedures pertinent to GC and HPLC analyses.

### 13.6 Sample Concentration

**13.6.1** If concentrations are too low to detect by the analytical procedure of choice, the extract may be concentrated to 1 mL or 0.5 mL by carefully controlled evaporation under an inert atmosphere. The following procedure is appropriate.

**13.6.2** Place K-D concentrator tube in a water bath and analytical evaporator (nitrogen blow-down) apparatus. The water bath temperature should be from 25°C to 50°C.

**13.6.3** Adjust nitrogen flow through hypodermic needle to provide a gentle stream.

**13.6.4** Carefully lower hypodermic needle into the concentrator tube to a distance of about 1 cm above the liquid level.

**13.6.5** Continue to adjust needle placement as liquid level decreases.

**13.6.6** Reduce volume to slightly below desired level.

**13.6.7** Adjust to final volume by carefully rinsing needle tip and concentrator tube well with solvent (usually n-hexane).

## 14. Calculations

### 14.1 Determination of Concentration

**14.1.1** The concentration of the analyte in the extract solution can be taken from a standard curve where peak height or area is plotted linearly against concentration in nanograms per milliliter (ng/mL). If the detector response is known to be linear, a single point is used as a calculation constant.

**14.1.2** From the standard curve, determine the nanograms of analyte standard equivalent to the peak height or area for a particular compound.

**14.1.3** Ascertain whether the field blank is contaminated. Blank levels should not exceed 10 ng/sample for organochlorine pesticides or 100 ng/sample for PCBs and other pesticides. If the blank has been contaminated, the sampling series must be held suspect.

### 14.2 Equations

**14.2.1** Quantity of the compound in the sample (A) is calculated using the following equation:

$$A = 1000 \left( \frac{A_s \times V_e}{V_i} \right)$$

where:

A = total amount of analyte in the sample, ng.

A<sub>s</sub> = calculated amount of material injected onto the chromatograph based on calibration curve for injected standards, ng.

V<sub>e</sub> = final volume of extract, mL.

V<sub>i</sub> = volume of extract injected, μL.

1000 = factor for converting microliters to milliliters.

14.2.2 The extraction efficiency (EE) is determined from the recovery of surrogate spike as follows:

$$EE(\%) = \left[ \frac{S}{S_a} \right] [100]$$

where:

- EE = extraction efficiency, %
- S = amount of spike recovered, ng.
- S<sub>a</sub> = amount of spike added to plug, ng.

The extraction efficiency (surrogate recovery) must fall between 60-120% to be acceptable.

14.2.3 The total volume of air sampled under ambient conditions is determined using the following equation:

$$V_a = \frac{\sum_{i=1}^n (T_i \times F_i)}{1000 \text{ L/m}^3}$$

where:

- V<sub>a</sub> = total volume of air sampled, m<sup>3</sup>.
- T<sub>i</sub> = length of sampling segment between flow checks, min.
- F<sub>i</sub> = average flow during sampling segment, L/min.

14.2.4 The air volume is corrected to EPA standard temperature (25°C) and standard pressure (760 mm Hg) as follows:

$$V_s = V_a \left( \frac{P_b - P_w}{760 \text{ mm Hg}} \right) \left( \frac{298\text{K}}{t_A} \right)$$

where:

- V<sub>s</sub> = volume of air at standard conditions (25°C and 760 mm Hg), std. m<sup>3</sup>.
- V<sub>a</sub> = total volume of air sampled, m<sup>3</sup>.
- P<sub>b</sub> = average ambient barometric pressure, mm Hg.
- P<sub>w</sub> = vapor pressure of water at calibration temperature, mm Hg.
- t<sub>A</sub> = average ambient temperature, °C + 273.

14.2.5 If the proper criteria for a sample have been met, concentration of the compound in a standard cubic meter of air sampled is calculated as follows:

$$C_a(\text{ng/std. m}^3) = \left[ \frac{(A)}{(V_s)} \right]$$



If it is desired to convert the air concentration value to parts per trillion (ppt) in dry air at standard temperature and pressure (STP), the following conversion is used:

$$\text{ppt} = 0.844 (C_a)$$

The air concentration can be converted to parts per trillion (v/v) in air at STP as follows:

$$\text{pptv} = \left[ \frac{(24.45) (C_a)}{(\text{MW})} \right]$$

where:

MW = molecular weight of the compound of interest, g/g-mole.

**14.2.6** If quantification is performed using an internal standard, a relative response factor (RRF) is calculated by the equation:

$$\text{RRF} = \left[ \frac{(I_s)(C_{is})}{(I_{is})(C_s)} \right]$$

where:

$I_s$  = integrated area of the target analyte peak, counts.

$I_{is}$  = integrated area of the internal standard peak, counts.

$C_{is}$  = concentration of the internal standard, ng/ $\mu$ L.

$C_s$  = concentration of the analyte, ng/ $\mu$ L.

**14.2.7** The concentration of the analyte ( $C_a$ ) in the sample is then calculated as follows:

$$C_a = \frac{(I_s)(C_{is})}{(\text{RRF})(I_{is})}$$

where:

$I_s$  = integrated area of the target analyte peak, counts.

RRF = relative response factor (see Section 14.2.7).

## 15. Performance Criteria and Quality Assurance

*[Note: This section summarizes required quality assurance (QA) measures and provides guidance concerning performance criteria that should be achieved within each laboratory.]*

## 15.1 Standard Operating Procedures (SOPs)

15.1.1 Users should generate SOPs describing the following activities accomplished in their laboratory: (1) assembly, calibration, and operation of the sampling system, with make and model of equipment used; (2) preparation, purification, storage, and handling of sampling cartridges, (3) assembly, calibration, and operation of the analytical system, with make and model of equipment used; and (4) all aspects of data recording and processing, including lists of computer hardware and software used.

15.1.2 SOPs should provide specific stepwise instructions and should be readily available to, and understood by, the laboratory personnel conducting the work.

## 15.2 Process, Field, and Solvent Blanks

15.2.1 One filter/PUF cartridge from each batch of approximately twenty should be analyzed, without shipment to the field, for the compounds of interest to serve as a process blank.

15.2.2 During each sampling episode, at least one filter/PUF cartridge should be shipped to the field and returned, without drawing air through the sampler, to serve as a field blank.

15.2.3 Before each sampling episode, one PUF plug from each batch of approximately twenty should be spiked with a known amount of the standard solution. The spiked plug will remain in a sealed container and will not be used during the sampling period. The spiked plug is extracted and analyzed with the other samples. This field spike acts as a quality assurance check to determine matrix spike recoveries and to indicate sample degradation.

15.2.4 During the analysis of each batch of samples, at least one solvent process blank (all steps conducted but no filter/PUF cartridge included) should be carried through the procedure and analyzed.

15.2.5 Levels for process, field and solvent blanks should not exceed 10 ng/sample for single components or 100 ng/sample for multiple component mixtures (i.e., for organochlorine pesticides and PCBs).

## 15.3 Method Precision and Bias

15.3.1 Precision and bias in this type of analytical procedure are dependent upon the precision and bias of the analytical procedure for each compound of concern, and the precision and bias of the sampling process.

15.3.2 Several different parameters involved in both the sampling and analysis steps of this method collectively determine the precision and bias with which each compound is detected. As the volume of air sampled is increased, the sensitivity of detection increases proportionately within limits set by: (a) the retention efficiency for each specific component trapped on the polyurethane foam plug, and (b) the background interference associated with the analysis of each specific component at a given site sampled. The sensitivity of detection of samples recovered by extraction depends on: (a) the inherent response of the particular GC detector used in the determinative step, and (b) the extent to which the sample is concentrated for analysis. It is the responsibility of the analyst(s) performing the sampling and analysis steps to adjust parameters so that the required detection limits can be obtained.

15.3.3 The reproducibility of this method for most compounds for which it has been evaluated has been determined to range from  $\pm 5$  to  $\pm 30\%$  (measured as the relative standard deviation) when replicate sampling cartridges are used ( $N > 5$ ). Sample recoveries for individual compounds generally fall within the range of 90 to 110%, but recoveries ranging from 65 to 125% are considered acceptable.

## 15.4 Method Safety

**15.4.1** This procedure may involve hazardous materials, operations, and equipment. This method does not purport to address all of the safety problems associated with its use.

**15.4.2** It is the users responsibility to consult and establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to the implementation of this procedure. This should be part of the users SOP manual.

## 16. References

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**Pesticides/PCBs**

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**APPENDIX V**  
**PCB ANALYTICAL RESULTS**

Ms. Maura Hawkins  
Berkshire Environmental  
152 North St.  
Suite 250  
Pittsfield MA 01201  
Report Number: G782-10

Client Project: Oxbow J&K Background

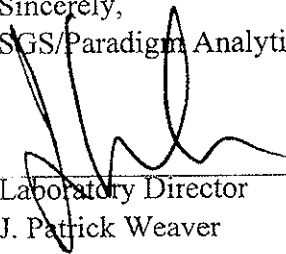
Dear Ms. Hawkins:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call SGS/Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS/Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,  
SGS/Paradigm Analytical Laboratories, Inc.

  
\_\_\_\_\_  
Laboratory Director  
J. Pattick Weaver

7/17/2006  
\_\_\_\_\_  
Date

**Results for PCBs**  
by EPA 8082

Client Sample ID: Method Blank  
 Client Project ID:  
 Lab Sample ID: PB5695  
 Lab Project ID:

Analyzed By: DCS  
 Date Collected:  
 Date Received:  
 Date Extracted: 7/12/06

ColumnID: STX-CLPest      Matrix: PUF

Compound	Result ug/PUF	Quantitation Limit ug/PUF	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	0.100	1	07/14/06
Aroclor-1221	BQL	0.100	1	07/14/06
Aroclor-1232	BQL	0.100	1	07/14/06
Aroclor-1242	BQL	0.100	1	07/14/06
Aroclor-1248	BQL	0.100	1	07/14/06
Aroclor-1254	BQL	0.100	1	07/14/06
Aroclor-1260	BQL	0.100	1	07/14/06

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	82	82	60-120
DCBP	100	87	87	60-120

Notes:

**Comments:**

BQL = Below Quantitation Limit  
 NA = Not applicable, surrogate diluted out.

Reviewed By: CKC



QC Results for PCBs  
by EPA 8082

Client Sample ID: Batch QC

Analyzed By: DCS  
Matrix: PUF

Batch ID: 5695

Analyte	Spiked ug/PUF	LCS ug/PUF	Limit 65-125		LCSD ug/PUF	Limit 65-125		Limit 40%
			REC %			REC %	RPD %	
Aroclor-1254	1.0	0.808	80.8		0.688	68.8	17.4	

Comments:

# = Outside Control Limits

Reviewed by: OK

**Results for PCBs**  
by EPA 8082

Client Sample ID: BLK-070706-000	Analyzed By: DCS
Client Project ID: Oxbow J&K Background	Date Collected: 7/7/06 7:00
Lab Sample ID: G782-10-1B	Date Received: 7/8/06
Lab Project ID: G782-10	Date Extracted: 7/12/06
ColumnID: STX-CLPest	Matrix: Air


Compound	Result ug/PUF	Quantitation Limit ug/PUF	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	0.100	1	07/14/06
Aroclor-1221	BQL	0.100	1	07/14/06
Aroclor-1232	BQL	0.100	1	07/14/06
Aroclor-1242	BQL	0.100	1	07/14/06
Aroclor-1248	BQL	0.100	1	07/14/06
Aroclor-1254	BQL	0.100	1	07/14/06
Aroclor-1260	BQL	0.100	1	07/14/06

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	81	81	60-120
DCBP	100	80	80	60-120

**Notes:**

**Comments:**

BQL = Below Quantitation Limit  
NA = Not applicable, surrogate diluted out.

Reviewed By:   
8082\_LIMS\_v1.55PUF

**Results for PCBs**  
by EPA 8082

Client Sample ID: J3-070706-010	Analyzed By: DCS
Client Project ID: Oxbow J&K Background	Date Collected: 7/7/06 7:21
Lab Sample ID: G782-10-2B	Date Received: 7/8/06
Lab Project ID: G782-10	Date Extracted: 7/12/06
ColumnID: STX-CLPest	Matrix: Air

Compound	Result ug/PUF	Quantitation Limit ug/PUF	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	0.100	1	07/14/06
Aroclor-1221	BQL	0.100	1	07/14/06
Aroclor-1232	BQL	0.100	1	07/14/06
Aroclor-1242	BQL	0.100	1	07/14/06
Aroclor-1248	BQL	0.100	1	07/14/06
Aroclor-1254	0.260	0.100	1	07/14/06
Aroclor-1260	BQL	0.100	1	07/14/06

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	72	72	60-120
DCBP	100	92	92	60-120

Notes:

**Comments:**

BQL = Below Quantitation Limit  
NA = Not applicable, surrogate diluted out.

Reviewed By: Okc  
8082\_LIMS\_v1.55PUF

**Results for PCBs**  
by EPA 8082

Client Sample ID: J3Co-070706-201	Analyzed By: DCS
Client Project ID: Oxbow J&K Background	Date Collected: 7/7/06 7:21
Lab Sample ID: G782-10-3B	Date Received: 7/8/06
Lab Project ID: G782-10	Date Extracted: 7/12/06
ColumnID: STX-CLPest	Matrix: Air

Compound	Result ug/PUF	Quantitation Limit ug/PUF	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	0.100	1	07/14/06
Aroclor-1221	BQL	0.100	1	07/14/06
Aroclor-1232	BQL	0.100	1	07/14/06
Aroclor-1242	BQL	0.100	1	07/14/06
Aroclor-1248	BQL	0.100	1	07/14/06
Aroclor-1254	0.331	0.100	1	07/14/06
Aroclor-1260	BQL	0.100	1	07/14/06

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	57	57	60-120
DCBP	100	65	65	60-120

**Notes:**

Surrogate fails to meet method acceptance criteria  
Surrogate recovery below method specified limits.

**Comments:**

BQL = Below Quantitation Limit  
NA = Not applicable, surrogate diluted out.

Reviewed By: *cke*  
8082\_LIMS\_v1.55PUF

**Results for PCBs  
by EPA 8082**

Client Sample ID: J5-070706-304  
 Client Project ID: Oxbow J&K Background  
 Lab Sample ID: G782-10-4B  
 Lab Project ID: G782-10

Analyzed By: DCS  
 Date Collected: 7/7/06 7:00  
 Date Received: 7/8/06  
 Date Extracted: 7/12/06  
 Matrix: Air

ColumnID: STX-CLPest

Compound	Result ug/PUF	Quantitation Limit ug/PUF	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	0.100	1	07/14/06
Aroclor-1221	BQL	0.100	1	07/14/06
Aroclor-1232	BQL	0.100	1	07/14/06
Aroclor-1242	BQL	0.100	1	07/14/06
Aroclor-1248	BQL	0.100	1	07/14/06
Aroclor-1254	0.422	0.100	1	07/14/06
Aroclor-1260	BQL	0.100	1	07/14/06

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	77	77	60-120
DCBP	100	81	81	60-120

Notes:

**Comments:**

BQL = Below Quantitation Limit  
 NA = Not applicable, surrogate diluted out.

Reviewed By: ckc

**Results for PCBs**  
by EPA 8082

Client Sample ID: K1-070706-003	Analyzed By: DCS
Client Project ID: Oxbow J&K Background	Date Collected: 7/7/06 7:00
Lab Sample ID: G782-10-5B	Date Received: 7/8/06
Lab Project ID: G782-10	Date Extracted: 7/12/06
ColumnID: STX-CLPest	Matrix: Air

Compound	Result ug/PUF	Quantitation Limit ug/PUF	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	0.100	1	07/14/06
Aroclor-1221	BQL	0.100	1	07/14/06
Aroclor-1232	BQL	0.100	1	07/14/06
Aroclor-1242	BQL	0.100	1	07/14/06
Aroclor-1248	BQL	0.100	1	07/14/06
Aroclor-1254	0.195	0.100	1	07/14/06
Aroclor-1260	BQL	0.100	1	07/14/06

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	58	58	60-120
DCBP	100	79	79	60-120

**Notes:**

Surrogate fails to meet method acceptance criteria  
Surrogate recovery below method specified limits.

**Comments:**

BQL = Below Quantitation Limit  
NA = Not applicable, surrogate diluted out.

Reviewed By: ckc

**Results for PCBs**  
by EPA 8082

Client Sample ID: BB-070706-302	Analyzed By: DCS
Client Project ID: Oxbow J&K Background	Date Collected: 7/7/06 7:00
Lab Sample ID: G782-10-6B	Date Received: 7/8/06
Lab Project ID: G782-10	Date Extracted: 7/12/06
ColumnID: STX-CLPest	Matrix: Air

Compound	Result ug/PUF	Quantitation Limit ug/PUF	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	0.100	1	07/14/06
Aroclor-1221	BQL	0.100	1	07/14/06
Aroclor-1232	BQL	0.100	1	07/14/06
Aroclor-1242	BQL	0.100	1	07/14/06
Aroclor-1248	BQL	0.100	1	07/14/06
Aroclor-1254	0.960	0.100	1	07/14/06
Aroclor-1260	BQL	0.100	1	07/14/06

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	64	64	60-120
DCBP	100	82	82	60-120

**Notes:**

**Comments:**

BQL = Below Quantitation Limit  
NA = Not applicable, surrogate diluted out.

Reviewed By: OKL  
8082\_LIMS\_v1.55PUF





Ms. Maura Hawkins  
Berkshire Environmental  
152 North St.  
Suite 250  
Pittsfield MA 01201  
Report Number: G782-13

Client Project: Oxbows J&K Background

Dear Ms. Hawkins:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call SGS/Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS/Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,  
SGS/Paradigm Analytical Laboratories, Inc.

  
Laboratory Director

J. Patrick Weaver

  
Date

**QC Results for PCBs  
by EPA 8082**

Client Sample ID: Batch QC


Analyzed By: DCS  
Matrix: PUF

Batch ID: 5700

Analyte	Spiked ug/PUF	LCS ug/PUF	Limit 65-125		LCSD ug/PUF	Limit 65-125		Limit 40%
			REC %			REC %	RPD %	
Aroclor-1254	1.0	0.831	83.1		0.688	68.8	20.8	

**Comments:**

# = Outside Control Limits

Reviewed by: 

**Results for PCBs**  
by EPA 8082

Client Sample ID: Method Blank  
 Client Project ID:  
 Lab Sample ID: PB5700  
 Lab Project ID:

Analyzed By: DCS  
 Date Collected:  
 Date Received:  
 Date Extracted: 7/14/06  
 Matrix: PUF

ColumnID: STX-CLPest

Compound	Result ug/PUF	Quantitation Limit ug/PUF	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	0.100	1	07/17/06
Aroclor-1221	BQL	0.100	1	07/17/06
Aroclor-1232	BQL	0.100	1	07/17/06
Aroclor-1242	BQL	0.100	1	07/17/06
Aroclor-1248	BQL	0.100	1	07/17/06
Aroclor-1254	BQL	0.100	1	07/17/06
Aroclor-1260	BQL	0.100	1	07/17/06

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	108	108	60-120
DCBP	100	147	147	60-120

**Notes:**  
 Surrogate fails to meet method acceptance criteria

**Comments:**  
 BQL = Below Quantitation Limit  
 NA = Not applicable, surrogate diluted out.

Reviewed By: 

**Results for PCBs  
by EPA 8082**

Client Sample ID: BLK-070906--000	Analyzed By: DCS
Client Project ID: Oxbows J&K Background	Date Collected: 7/9/06 7:00
Lab Sample ID: G782-13-1B	Date Received: 7/11/06
Lab Project ID: G782-13	Date Extracted: 7/14/06
ColumnID: STX-CLPest	Matrix: Air

Compound	Result ug/PUF	Quantitation Limit ug/PUF	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	0.100	1	07/18/06
Aroclor-1221	BQL	0.100	1	07/18/06
Aroclor-1232	BQL	0.100	1	07/18/06
Aroclor-1242	BQL	0.100	1	07/18/06
Aroclor-1248	BQL	0.100	1	07/18/06
Aroclor-1254	BQL	0.100	1	07/18/06
Aroclor-1260	BQL	0.100	1	07/18/06

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	64	64	60-120
DCBP	100	86	86	60-120

**Notes:**

**Comments:**

BQL = Below Quantitation Limit  
NA = Not applicable, surrogate diluted out.

Reviewed By: 

**Results for PCBs  
by EPA 8082**

Client Sample ID: J3-070906-010	Analyzed By: DCS
Client Project ID: Oxbows J&K Background	Date Collected: 7/9/06 7:00
Lab Sample ID: G782-13-2B	Date Received: 7/11/06
Lab Project ID: G782-13	Date Extracted: 7/14/06
ColumnID: STX-CLPest	Matrix: Air


Compound	Result ug/PUF	Quantitation Limit ug/PUF	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	0.100	1	07/18/06
Aroclor-1221	BQL	0.100	1	07/18/06
Aroclor-1232	BQL	0.100	1	07/18/06
Aroclor-1242	BQL	0.100	1	07/18/06
Aroclor-1248	BQL	0.100	1	07/18/06
Aroclor-1254	0.214	0.100	1	07/18/06
Aroclor-1260	BQL	0.100	1	07/18/06

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	74	74	60-120
DCBP	100	101	101	60-120

Notes:

**Comments:**

BQL = Below Quantitation Limit  
NA = Not applicable, surrogate diluted out.

Reviewed By:   
8082\_LIMS\_v1.55PUF

**Results for PCBs**  
by EPA 8082

Client Sample ID: J3Co-070906-201	Analyzed By: DCS
Client Project ID: Oxbows J&K Background	Date Collected: 7/9/06 7:00
Lab Sample ID: G782-13-3B	Date Received: 7/11/06
Lab Project ID: G782-13	Date Extracted: 7/14/06
ColumnID: STX-CLPest	Matrix: Air

Compound	Result ug/PUF	Quantitation Limit ug/PUF	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	0.100	1	07/18/06
Aroclor-1221	BQL	0.100	1	07/18/06
Aroclor-1232	BQL	0.100	1	07/18/06
Aroclor-1242	BQL	0.100	1	07/18/06
Aroclor-1248	BQL	0.100	1	07/18/06
Aroclor-1254	<b>0.515</b>	0.100	1	07/18/06
Aroclor-1260	BQL	0.100	1	07/18/06

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	101	101	60-120
DCBP	100	121	121	60-120

**Notes:**  
Surrogate fails to meet method acceptance criteria

**Comments:**  
BQL = Below Quantitation Limit  
NA = Not applicable, surrogate diluted out.

Reviewed By:   
8082\_LIMS\_v1.55PUF

**Results for PCBs**  
by EPA 8082

Client Sample ID: J5-070906-304	Analyzed By: DCS
Client Project ID: Oxbows J&K Background	Date Collected: 7/9/06 7:00
Lab Sample ID: G782-13-4B	Date Received: 7/11/06
Lab Project ID: G782-13	Date Extracted: 7/14/06
ColumnID: STX-CLPest	Matrix: Air

Compound	Result ug/PUF	Quantitation Limit ug/PUF	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	0.100	1	07/18/06
Aroclor-1221	BQL	0.100	1	07/18/06
Aroclor-1232	BQL	0.100	1	07/18/06
Aroclor-1242	BQL	0.100	1	07/18/06
Aroclor-1248	BQL	0.100	1	07/18/06
Aroclor-1254	<b>0.722</b>	0.100	1	07/18/06
Aroclor-1260	BQL	0.100	1	07/18/06

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	75	75	60-120
DCBP	100	111	111	60-120

**Notes:**

**Comments:**

BQL = Below Quantitation Limit  
NA = Not applicable, surrogate diluted out.

Reviewed By: 

**Results for PCBs**  
by EPA 8082

Client Sample ID: K1-070906-003      Analyzed By: DCS  
 Client Project ID: Oxbows J&K Background      Date Collected: 7/9/06 7:00  
 Lab Sample ID: G782-13-5B      Date Received: 7/11/06  
 Lab Project ID: G782-13      Date Extracted: 7/14/06  
 ColumnID: STX-CLPest      Matrix: Air

Compound	Result ug/PUF	Quantitation Limit ug/PUF	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	0.100	1	07/18/06
Aroclor-1221	BQL	0.100	1	07/18/06
Aroclor-1232	BQL	0.100	1	07/18/06
Aroclor-1242	BQL	0.100	1	07/18/06
Aroclor-1248	BQL	0.100	1	07/18/06
Aroclor-1254	0.818	0.100	1	07/18/06
Aroclor-1260	BQL	0.100	1	07/18/06

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	93	93	60-120
DCBP	100	105	105	60-120

Notes:

**Comments:**  
 BQL = Below Quantitation Limit  
 NA = Not applicable, surrogate diluted out.

Reviewed By:   
 8082\_LIMS\_v1.55PLF



**Results for PCBs**  
by EPA 8082

Client Sample ID: BB-070906-302  
 Client Project ID: Oxbows J&K Background  
 Lab Sample ID: G782-13-6B  
 Lab Project ID: G782-13

Analyzed By: DCS  
 Date Collected: 7/9/06 7:00  
 Date Received: 7/11/06  
 Date Extracted: 7/14/06

ColumnID: STX-CLPest      Matrix: Air

Compound	Result ug/PUF	Quantitation Limit ug/PUF	Dilution Factor	Date Analyzed
Aroclor-1016	BQL	0.100	1	07/14/06
Aroclor-1221	BQL	0.100	1	07/14/06
Aroclor-1232	BQL	0.100	1	07/14/06
Aroclor-1242	BQL	0.100	1	07/14/06
Aroclor-1248	BQL	0.100	1	07/14/06
Aroclor-1254	0.183	0.100	1	07/14/06
Aroclor-1260	BQL	0.100	1	07/14/06

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	61	61	60-120
DCBP	100	62	62	60-120

Notes:

**Comments:**

BQL = Below Quantitation Limit  
 NA = Not applicable, surrogate diluted out.

Reviewed By: 

8082\_LIMS\_v1.55PUF

Ms. Maura Hawkins  
Berkshire Environmental  
152 North St.  
Suite 250  
Pittsfield MA 01201  
Report Number: G782-15  
Client Project: Oxbow J&K

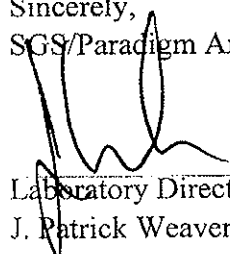
Dear Ms. Hawkins:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call SGS/Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS/Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,  
SGS/Paradigm Analytical Laboratories, Inc.

  
Laboratory Director  
J. Patrick Weaver

7/21/2006  
Date

**QC Results for PCBs  
by EPA 8082**

Client Sample ID: Batch QC

Analyzed By: DCS  
Matrix: PUF

Batch ID: 5742

Analyte	Spiked ug/PUF	LCS ug/PUF	Limit 65-125		LCSD ug/PUF	Limit 65-125		Limit 40%
			REC %			REC %	RPD %	
Aroclor-1254	1.0	0.694	69.4		1.02	102	32	

**Comments:**

# = Outside Control Limits

Reviewed by: DCS

**Results for PCBs**  
by EPA 8082

Client Sample ID: Method Blank  
 Client Project ID:  
 Lab Sample ID: PB5742  
 Lab Project ID:

Analyzed By: DCS  
 Date Collected:  
 Date Received:  
 Date Extracted: 7/18/06

ColumnID: STX-CLPest      Matrix: PUF

Compound	Result ug/PUF	Quantitation Limit ug/PUF	MDL	Dilution Factor	Date Analyzed	Flags
Aroclor-1016	BQL	0.100	0.0324	1	07/21/06	
Aroclor-1221	BQL	0.100	0.127	1	07/21/06	
Aroclor-1232	BQL	0.100	0.0450	1	07/21/06	
Aroclor-1242	BQL	0.100	0.0340	1	07/21/06	
Aroclor-1248	BQL	0.100	0.0454	1	07/21/06	
Aroclor-1254	BQL	0.100	0.0568	1	07/21/06	
Aroclor-1260	BQL	0.100	0.0418	1	07/21/06	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	74	74	60-120
DCBP	100	69	69	60-120

Notes:

**Comments:**

BQL = Below Quantitation Limit  
 NA = Not applicable, surrogate diluted out.

Reviewed By:     DKL

**Results for PCBs**  
by EPA 8082

Client Sample ID: BLK-071406-000  
 Client Project ID: Oxbow J&K  
 Lab Sample ID: G782-15-1B  
 Lab Project ID: G782-15

Analyzed By: DCS  
 Date Collected: 7/14/06 7:00  
 Date Received: 7/15/06  
 Date Extracted: 7/19/06

ColumnID: STX-CLPest      Matrix: Air

Compound	Result ug/PUF	Quantitation Limit ug/PUF	MDL	Dilution Factor	Date Analyzed	Flags
Aroclor-1016	BQL	0.100	0.0324	1	07/21/06	
Aroclor-1221	BQL	0.100	0.127	1	07/21/06	
Aroclor-1232	BQL	0.100	0.0450	1	07/21/06	
Aroclor-1242	BQL	0.100	0.0340	1	07/21/06	
Aroclor-1248	BQL	0.100	0.0454	1	07/21/06	
Aroclor-1254	BQL	0.100	0.0568	1	07/21/06	
Aroclor-1260	BQL	0.100	0.0418	1	07/21/06	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	96	96	60-120
DCBP	100	90	90	60-120

Notes:

**Comments:**

BQL = Below Quantitation Limit  
 NA = Not applicable, surrogate diluted out.

Reviewed By: oka

**Results for PCBs**  
by EPA 8082

Client Sample ID: J3-071406-010  
 Client Project ID: Oxbow J&K  
 Lab Sample ID: G782-15-2B  
 Lab Project ID: G782-15

Analyzed By: DCS  
 Date Collected: 7/14/06 7:08  
 Date Received: 7/15/06  
 Date Extracted: 7/19/06

ColumnID: STX-CLPest      Matrix: Air

Compound	Result ug/PUF	Quantitation Limit ug/PUF	MDL	Dilution Factor	Date Analyzed	Flags
Aroclor-1016	BQL	0.100	0.0324	1	07/21/06	
Aroclor-1221	BQL	0.100	0.127	1	07/21/06	
Aroclor-1232	BQL	0.100	0.0450	1	07/21/06	
Aroclor-1242	BQL	0.100	0.0340	1	07/21/06	
Aroclor-1248	BQL	0.100	0.0454	1	07/21/06	
Aroclor-1254	<b>0.422</b>	0.100	0.0568	1	07/21/06	
Aroclor-1260	BQL	0.100	0.0418	1	07/21/06	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	104	104	60-120
DCBP	100	86	86	60-120

Notes:

**Comments:**

BQL = Below Quantitation Limit  
 NA = Not applicable, surrogate diluted out.

Reviewed By: CKL

**Results for PCBs**  
by EPA 8082

Client Sample ID: J3Co-071406-201  
 Client Project ID: Oxbow J&K  
 Lab Sample ID: G782-15-3B  
 Lab Project ID: G782-15

Analyzed By: DCS  
 Date Collected: 7/14/06 7:08  
 Date Received: 7/15/06  
 Date Extracted: 7/19/06

ColumnID: STX-CLPest      Matrix: Air

Compound	Result ug/PUF	Quantitation Limit ug/PUF	MDL	Dilution Factor	Date Analyzed	Flags
Aroclor-1016	BQL	0.100	0.0324	1	07/21/06	
Aroclor-1221	BQL	0.100	0.127	1	07/21/06	
Aroclor-1232	BQL	0.100	0.0450	1	07/21/06	
Aroclor-1242	BQL	0.100	0.0340	1	07/21/06	
Aroclor-1248	BQL	0.100	0.0454	1	07/21/06	
Aroclor-1254	<b>0.385</b>	0.100	0.0568	1	07/21/06	
Aroclor-1260	BQL	0.100	0.0418	1	07/21/06	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	90	90	60-120
DCBP	100	96	96	60-120

Notes:

**Comments:**

BQL = Below Quantitation Limit  
 NA = Not applicable, surrogate diluted out.

Reviewed By: ckc

**Results for PCBs**  
by EPA 8082

Client Sample ID: J5-071406-304  
 Client Project ID: Oxbow J&K  
 Lab Sample ID: G782-15-4B  
 Lab Project ID: G782-15

Analyzed By: DCS  
 Date Collected: 7/14/06 7:07  
 Date Received: 7/15/06  
 Date Extracted: 7/19/06

ColumnID: STX-CLPest      Matrix: Air

Compound	Result ug/PUF	Quantitation Limit ug/PUF	MDL	Dilution Factor	Date Analyzed	Flags
Aroclor-1016	BQL	0.100	0.0324	1	07/21/06	
Aroclor-1221	BQL	0.100	0.127	1	07/21/06	
Aroclor-1232	BQL	0.100	0.0450	1	07/21/06	
Aroclor-1242	BQL	0.100	0.0340	1	07/21/06	
Aroclor-1248	BQL	0.100	0.0454	1	07/21/06	
Aroclor-1254	0.666	0.100	0.0568	1	07/21/06	
Aroclor-1260	0.980	0.100	0.0418	1	07/21/06	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	98	98	60-120
DCBP	100	99	99	60-120

Notes:

**Comments:**

BQL = Below Quantitation Limit  
 NA = Not applicable, surrogate diluted out.

Reviewed By: OKL



**Results for PCBs**  
by EPA 8082

Client Sample ID: K1-071406-003  
 Client Project ID: Oxbow J&K  
 Lab Sample ID: G782-15-5B  
 Lab Project ID: G782-15

Analyzed By: DCS  
 Date Collected: 7/14/06 7:00  
 Date Received: 7/15/06  
 Date Extracted: 7/19/06

ColumnID: STX-CLPest      Matrix: Air

Compound	Result ug/PUF	Quantitation Limit ug/PUF	MDL	Dilution Factor	Date Analyzed	Flags
Aroclor-1016	BQL	0.100	0.0324	1	07/21/06	
Aroclor-1221	BQL	0.100	0.127	1	07/21/06	
Aroclor-1232	BQL	0.100	0.0450	1	07/21/06	
Aroclor-1242	BQL	0.100	0.0340	1	07/21/06	
Aroclor-1248	BQL	0.100	0.0454	1	07/21/06	
Aroclor-1254	<b>0.381</b>	0.100	0.0568	1	07/21/06	
Aroclor-1260	BQL	0.100	0.0418	1	07/21/06	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	77	77	60-120
DCBP	100	84	84	60-120

Notes:

**Comments:**

BQL = Below Quantitation Limit  
 NA = Not applicable, surrogate diluted out.

Reviewed By: OKL

**Results for PCBs**  
by EPA 8082

Client Sample ID: BB-071406-302  
 Client Project ID: Oxbow J&K  
 Lab Sample ID: G782-15-6B  
 Lab Project ID: G782-15

Analyzed By: DCS  
 Date Collected: 7/14/06 7:00  
 Date Received: 7/15/06  
 Date Extracted: 7/19/06

ColumnID: STX-CLPest      Matrix: Air

Compound	Result ug/PUF	Quantitation Limit ug/PUF	MDL	Dilution Factor	Date Analyzed	Flags
Aroclor-1016	BQL	0.100	0.0324	1	07/21/06	
Aroclor-1221	BQL	0.100	0.127	1	07/21/06	
Aroclor-1232	BQL	0.100	0.0450	1	07/21/06	
Aroclor-1242	BQL	0.100	0.0340	1	07/21/06	
Aroclor-1248	BQL	0.100	0.0454	1	07/21/06	
Aroclor-1254	<b>0.761</b>	0.100	0.0568	1	07/21/06	
Aroclor-1260	<b>0.792</b>	0.100	0.0418	1	07/21/06	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered	Limit
TCMX	100	79	79	60-120
DCBP	100	83	83	60-120

**Notes:**

**Comments:**

BQL = Below Quantitation Limit  
 NA = Not applicable, surrogate diluted out.

Reviewed By: cke

**APPENDIX VI**  
**GPS-1 OPERATOR'S MANUAL**



INSTRUCTION AND OPERATION MANUAL

**MODEL PS-1 PUF SAMPLER**

**Pesticide Particulate and Vapor Collection System**

*145 SOUTH MIAMI AVENUE  
VILLAGE OF CLEVES, OHIO 45002*

Toll-Free 800-543-7412

513-941-2229 in OH

Fax: 513-941-1977

## OPERATING INSTRUCTIONS

### MODEL PS-1

#### A. UNIT PREPARATION.

1. Remove the PS-1 Puf Sampler from the shipping carton.
2. Locate the shelter lid and install on the aluminum shelter as follows:
  - a. Align the hinges of the lid to the rear of the shelter and fasten with four (4) 10-24 x 1/2" pan head screws.
  - b. Secure the front catch, (see figure A), to the shelter front using two (2) 10-24 x 1/2" flat head screws.
  - c. Secure the rear catch to the shelter back panel using one (1) 10-24 x 1/2" pan head screw.
  - d. Secure the rear lid hasp to the shelter lid using two (2) 10-24 x 1/2" pan head screws. (note: These three catches may need readjustment to operate the shelter lid properly.)
  - e. Adjust the front and rear catches to be sure that the lid slot lowers over the front catch when closing the lid and aligns with the rear catch when the lid is in the open position.
  - f. The lid can now be secured in an open or closed position with the aluminum strip or a padlock.
3. Find one (1) sampling module in the packing container and install on the inlet port. The inlet port has a 1/2" threaded male fitting. Place the module over the male fitting and screw it on until snug.
4. Pull the exhaust hose from out of the shelter bottom and extend it away from the shelter on the ground.
5. Open the shelter door and timer.
6. Prepare the timer for the desired start and stop times.

#### B. Unit Calibration.

1. Calibration of the Puf Sampler is performed without a foam slug or filter paper in the sampling module. However the empty glass cartridge must remain in the module to insure a good seal through the module.
2. Install the GMW-40 Calibrator on top of the 4" filterholder.

3. Connect an 8" water manometer to the Calibrator.
4. Open the ball valve fully.
5. Turn the system on by tripping the manual switch on the timer. Allow a few minutes for warm-up.
6. Adjust the voltage control screw to obtain a reading of 70 inches on the dial gage, (Magnehelic Gage).
7. With 70 inches on the dial gage as your first calibration point, record it and the manometer reading on the data sheet.
8. Close the ball valve slightly to readjust the dial gage down to 60 inches. Record this figure and manometer reading on the data sheet.
9. Using the above procedure, adjust the ball valve for readings at 50, 40, and 30 inches and record on the data sheet.
10. Using these two sets of readings, plot a curve on the data sheet. This curve will be used for determining the actual flow rate in the field.
11. Readjust the voltage control fully clockwise to it's maximum setting. Open ball valve fully.

C. Unit Operation.

1. The Puf Sampler may be operated at ground level or on roof tops. In urban or congested areas, it is recommended that the sampler be placed on the roof of a single story building. The sampler should be located in an unobstructed area, at least two meters from any obstacle to air flow. The exhaust hose should be stretched out in a down wind direction if possible.
2. The sampler should be operated for 24 hours in order to obtain average daily levels of airborne pesticides.
3. On and off times and weather conditions during sampling periods should be recorded. Air concentrations may fluctuate with time of day, temperature, humidity, wind direction and velocity and other climatological conditions.
4. Air flow readings should be taken (dial gage) at the beginning and end of each sampling period. Differences between the beginning and ending flow rates should be averaged out to obtain an overall flow rate. (The Puf Sampler can be fitted with a gas meter which would give a direct reading of the total flow.)
5. Blower motor brushes should be inspected frequently and replaced before expending.

6. An electrical source of 110 volts, 15 amps is required.

D. Descriptions of Sampling Media (Sorbents)

1. Two types of sampling media are recommended for use with the Puf Sampler: polyurethane foams and granular solid sorbents. Foams may be used separately or in combination with granular solids. The sorbent may be extracted and reused (after drying) without unloading the cartridge.

2. Polyurethane Foam (PUF):

a. Use polyether-type polyurethane foam (density No. 3014, 0.0225 grams/cm<sup>3</sup>, or equivalent). This is the type of foam generally used for furniture upholstery, pillows, and mattresses. (General Metal Works' part number PSl-16 is recommended. It is a 3" PUF plug. Also available are two and one inch pieces.) This type of foam is white and yellows on exposure to light.

3. Granular Solids:

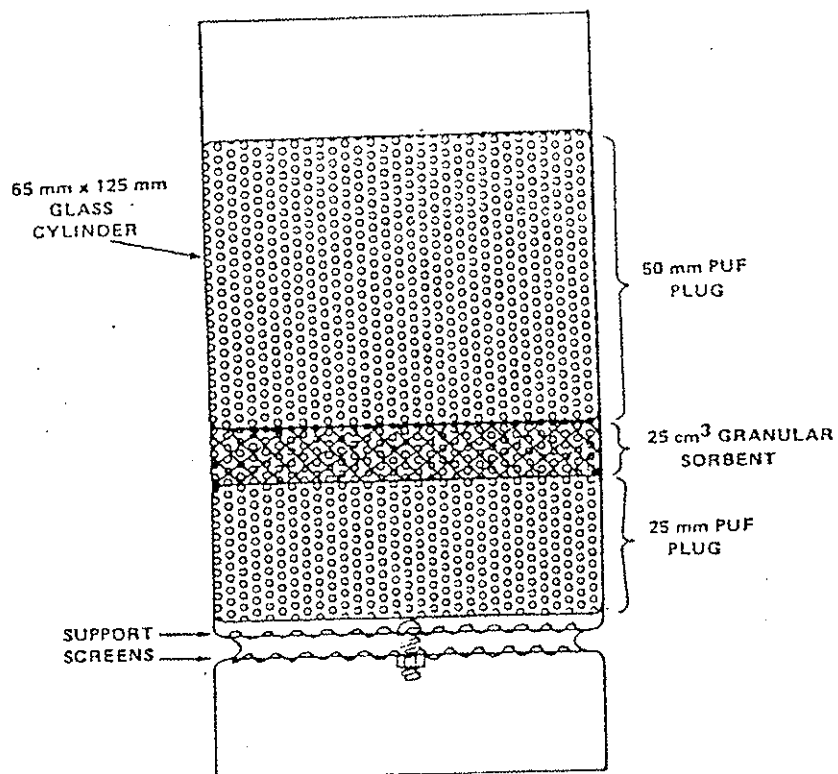
a. Porous (macroreticular) chromatography sorbents recommended. Pore sizes and mesh sizes must be selected to permit air flow rates of at least 200 liters/minute. Approximately 25 cm<sup>3</sup> of sorbent is recommended. The granular solids may be sandwiched between two layers of foam to prevent loss during sampling and extraction.

E. Sampling Module.

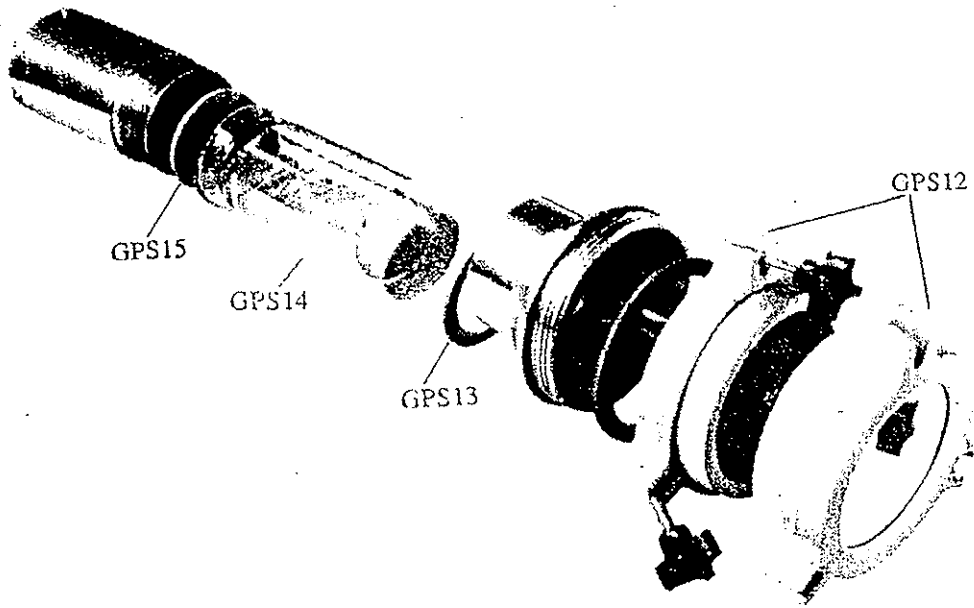
1. Release the three (3) swing bolts on the 4" filter holder (FH-2104) and remove the hold down ring.
2. Install a clean 102mm dia. glass fiber filter (GMW-0232) on the support screen and secure it with the hold down ring and swing bolts.
3. Unscrew together the 4" filter holder and the sampling module cap leaving the module tube in place with the glass cartridge exposed.
4. Load the glass cartridge with foam and or foam/granular solids and replace in the module tube. Fasten the glass cartridge with the module cap and 4" filter holder assembly while making sure that the module assembly, 4" filter holder and all fittings are snug and not over-tighten.

5. The glass cartridge and glass fiber filter should be removed from the sampler with forceps and clean gloved hands and immediately placed in a sealed container for transport to the laboratory. Similar care should be taken to prevent contamination of the filter paper and vapor trap (foam) when loading the sampler.
6. It is recommended to have two (2) sampling modules for each sampling system so that filter and foam exchange can take place in the laboratory.





DUAL SORBENT VAPOR TRAP



## DUAL SAMPLING MODULE WITH 4" FILTER HOLDER

Model GPS1	Complete Sampling System .....	.....
GPS11	Dual Sampling module with GFH2104 4" filter holder, less glass cartridge .....	.....
GPS12	4" round Filter Holder (GFH-2104) .....	.....
GPS13	Silicone Gasket (Top Module) .....	.....
GPS14	Glass Cartridge with support screens .....	.....
GPS15	Silicone Gasket (Bottom Module) .....	.....
GPS16	Voltage Variator/Elapsed Timer (G991) .....	.....
GPS17	Seven Day Skip Timer (G-70) .....	.....
GPS18	Magnehelic Gage 0-100" .....	.....
GPS19	Flow Venturi .....	.....
GPS110	Flow Valve .....	.....
GPS111	Blower Motor Assembly .....	.....
GPS112	Motor Cushion .....	.....
GPS113	Replacement Motor only .....	.....
GPS114	Replacement Motor Brushes (GB1) .....	.....
GPS115	Exhaust Hose, 10 ft. Length .....	.....
GPS116	PUF (polyurethane foam) plug 3" .....	.....
GPS117	PUF (polyurethane foam) plug 2" .....	.....
GPS118	PUF (polyurethane foam) plug 1" .....	.....
GPS119	Aluminum Outdoor Shelter Complete .....	.....
GPS120	Male Adapter for bottom of module .....	.....
GPS121	Aluminum Quick Disconnect Coupler .....	.....
G40	Calibration Kit with NBS Curve .....	.....
G40A	Calibration Orifice only with NBS Curve .....	.....
GQMA4	Micro-Quartz Filters (102mm Circles) 100 pcs. ....	.....
	Recalibration of Calibrating Orifice G40A 5-Point Calibration .....	.....

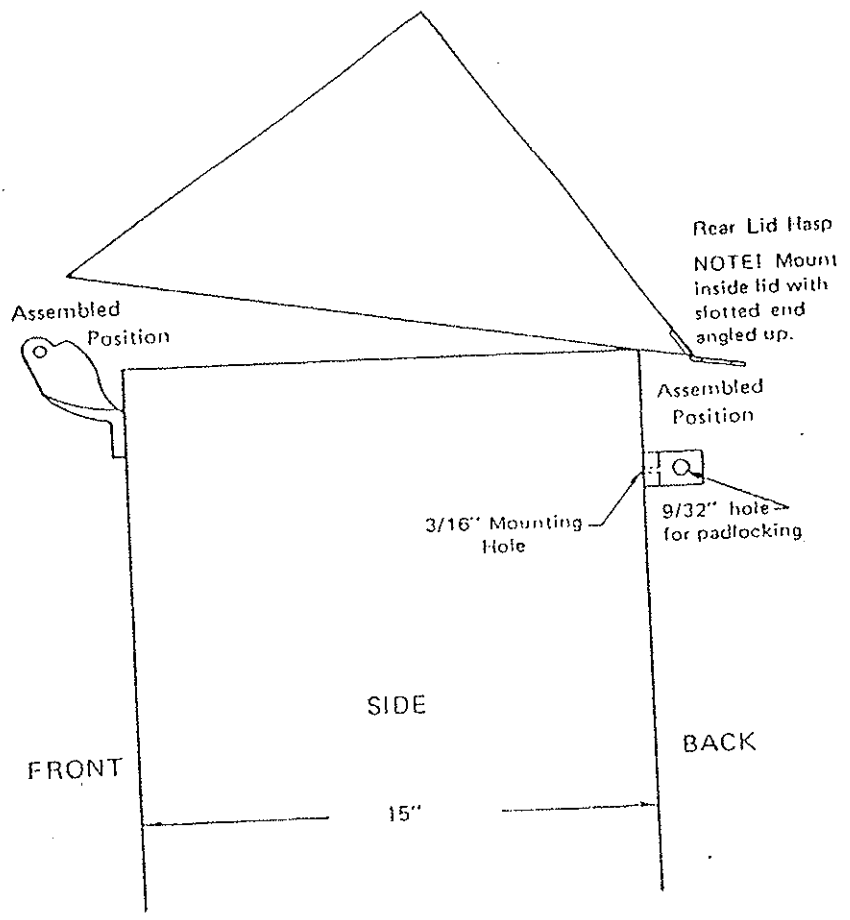


FIGURE A

## MOTOR BRUSH SEATING PROCEDURE

On reassembly and handling, the lead wires must be kept away from rotating parts and motor frame.

To achieve best performance, the new brushes should be seated on the commutator before full voltage is applied.

After brush change apply approximately 50% voltage for thirty minutes to accomplish this seating. The motor will return to full performance after thirty to forty-five minutes running at full voltage.

( Caution ) — Direct application of full voltage after changing brush will cause arcing, commutator pitting, and reduce overall life.

Use of the Model GMW - 900 Voltage Variator provides the reduced voltage needed for brush seating.

If reduced voltage is unavailable, connect two motors of similar rating in series for thirty minutes to accomplish the brush seating.

WARNING —

THE BRUSHES SHOULD BE CHANGED BEFORE  
THE BRUSH SHUNT TOUCHES THE COMMUTATOR.

# CALIBRATION DATA SHEET

## HIGH VOLUME AIR SAMPLER CALIBRATION

Unit No.: \_\_\_\_\_

Date:

By:

Indicated

True  
"H<sub>2</sub>O

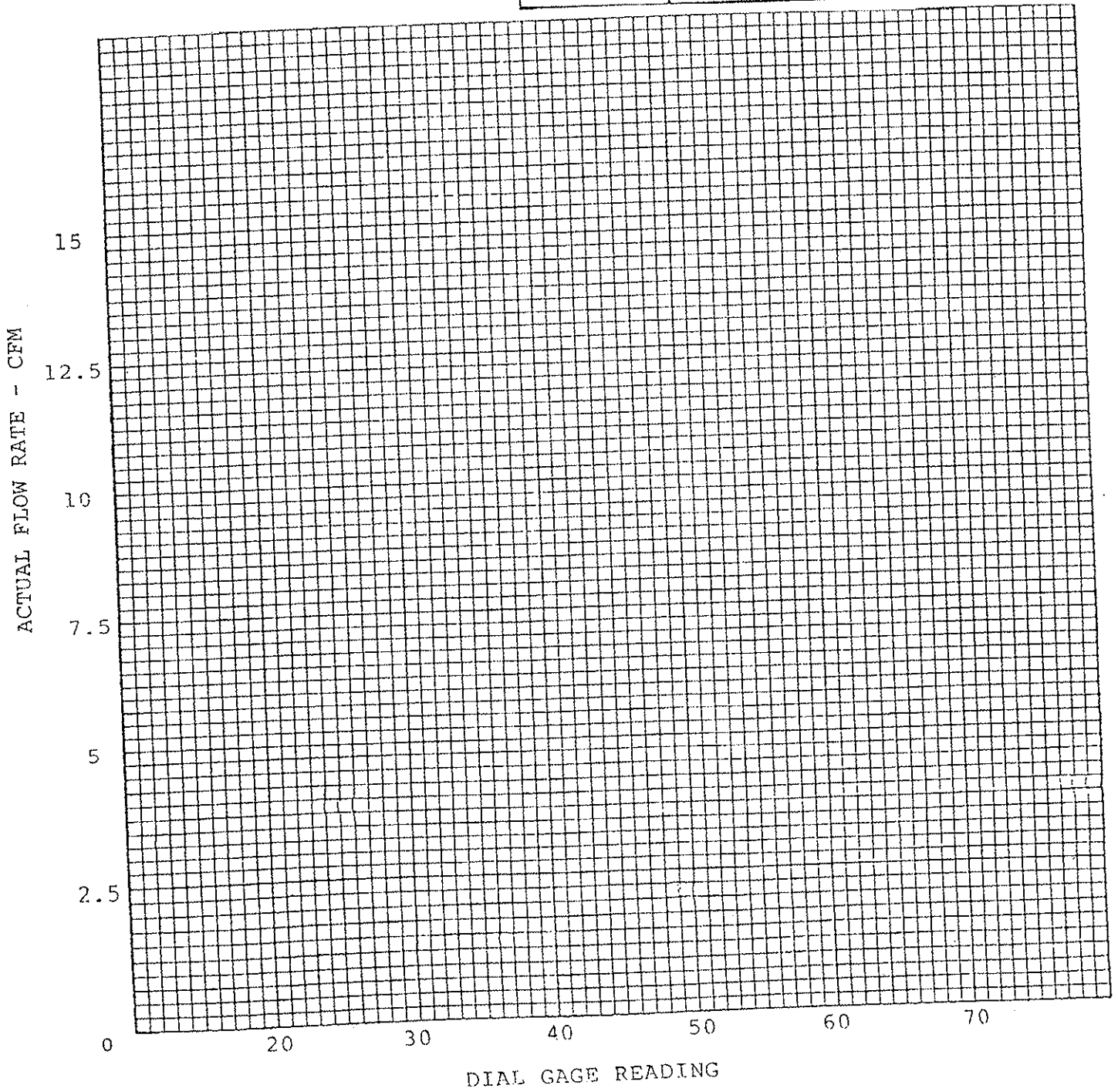
Actual  
cfm

Temp.:

At. Press:

Remarks:

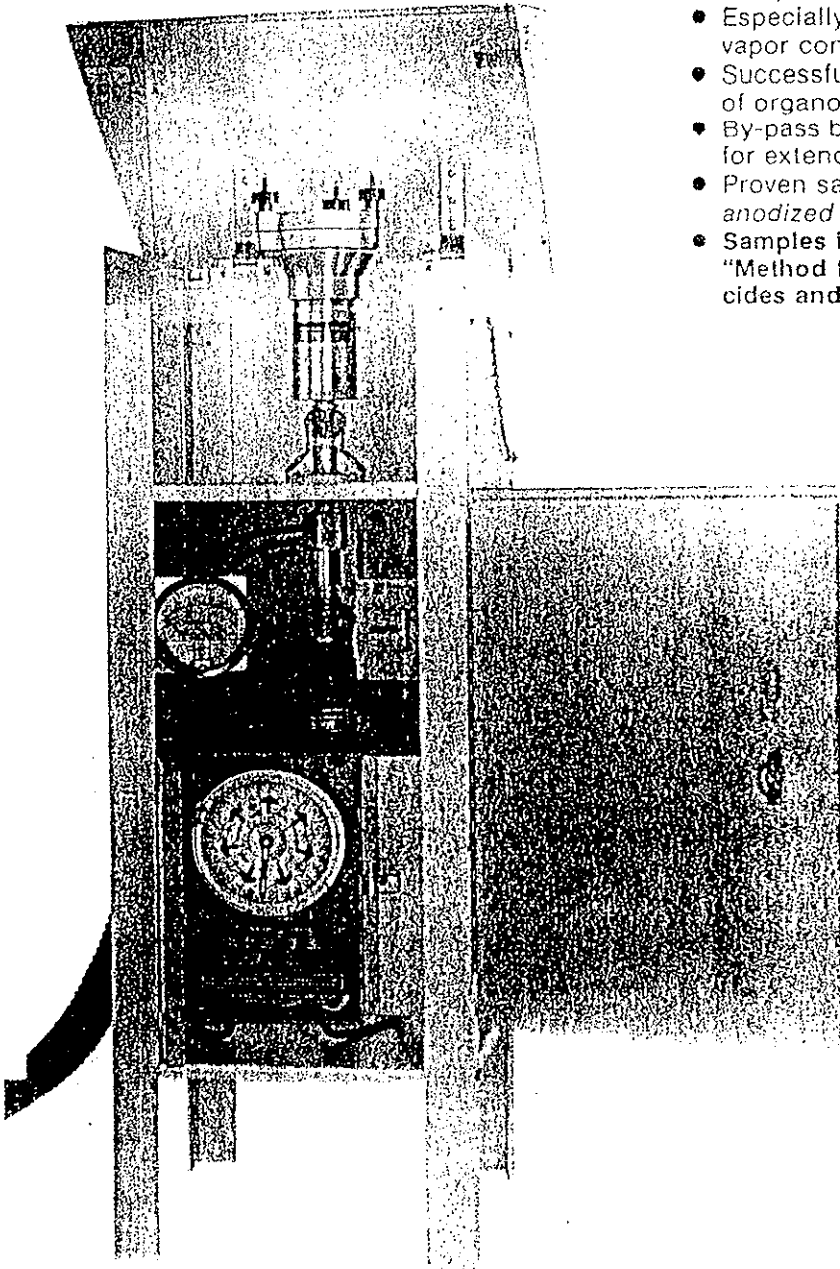
Indicated	True "H <sub>2</sub> O	Actual cfm



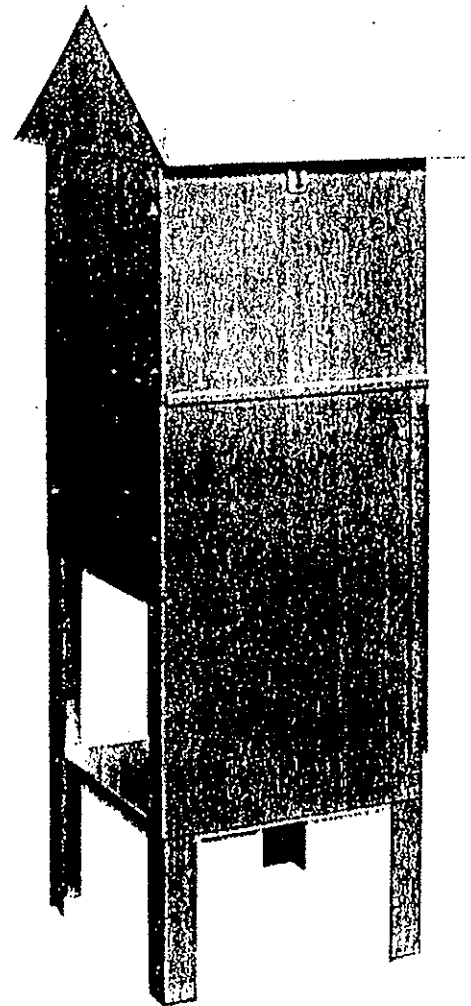
# MODEL GPS1 PUF SAMPLER

## Pesticide Particulate and Vapor Collection System

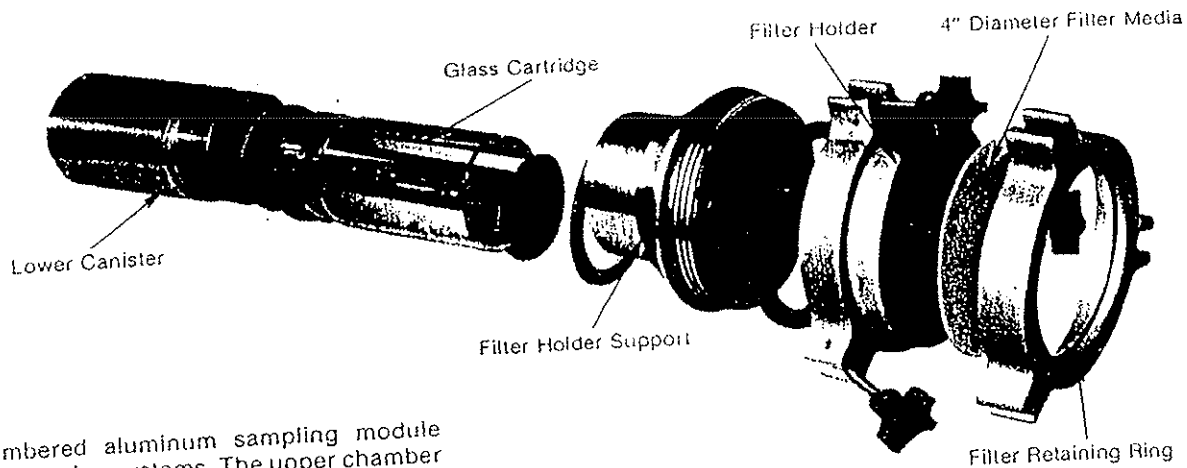
- Samples semivolatile organic compounds.
- Especially designed for sampling airborne particulates and vapor contamination from pesticide compounds.
- Successfully demonstrated to efficiently collect a number of organochlorine and organophosphate pesticides.
- By-pass blower motor design permits continuous sampling for extended periods at rates to 280 liters per minute.
- Proven sampler compounds housed in aluminum shelter anodized for outdoor service.
- Samples in accordance with U.S. EPA Method TO4, "Method for the Determination of Organochlorine Pesticides and Polychlorinated Biphenyls in Ambient Air."



General Metal Works' PUF (PolyUrethane Foam) Sampler is a complete air sampling system designed to simultaneously collect suspended airborne particulates as well as trap airborne pesticide vapors at flow rates up to 280 liters per minute. The Model GPS1 features the latest in technological advances for accurately measuring airborne particulates and vapors.



The GMW PUF Sampler is equipped with a by-pass blower motor arranged with an independent cooling fan. This feature permits the motor to operate at low sampling flow rates for periods of long duration without motor failure from overheating.



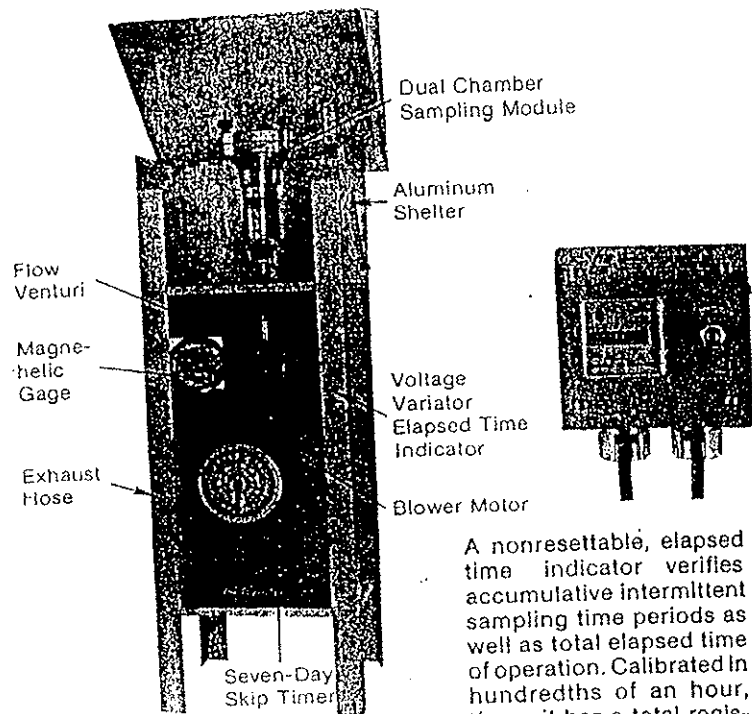
A dual chambered aluminum sampling module contains both filtering systems. The upper chamber supports the airborne particulate filter media in a circular filter holder. The lower chamber encapsulates a glass cartridge which contains the PolyUrethane Foam for vapor entrapment.

A wide variety of sorbents can be used in a manner that permits their continual use. Polyurethane foam or wet/dry granular solid media can be used individually or in combination.


The dual chambered sampling module is designed for easy access to both upper and lower media. Swing-away bolts simplify changing the 4\"/>

Air flow rates are infinitely variable up to 280 liters per minute. The voltage variator adjusting screw alters the blower motor speed to achieve the flow rate desired. The air flow rate is measured through the flow venturi utilizing a 0-100\"/>

A 7-day skip timer is included as standard and permits weekly scheduling with individual settings for each day and 14 trippers to turn the sampler on and off as desired. Any day or days may be omitted. Day and night periods are distinctly marked. Other timers and timer/programmers are available optionally to suit any sampling requirement.




A nonresettable, elapsed time indicator verifies accumulative intermittent sampling time periods as well as total elapsed time of operation. Calibrated in hundredths of an hour, the unit has a total register of 99,999.99 hours.



Priced separately, the calibration kit includes a manometer, calibrator and calibration curve nested in a carrying case. The calibrator attaches directly to the top of the filter holder, eliminating the need to disassemble the sampling unit. It affords precise calibration of the sampler and is especially recommended for calibrating the Model GPS1 PUF Sampler.

The GMW Model GPS1 PUF Sampler is shipped completely wired and assembled, ready for operation. All components are housed within the anodized aluminum shelter for maximum protection.

**SPECIFICATIONS:**  
 Amperage—8.0  
 Wattage—960  
 Max. Flow Rate—280 liters per minute  
 Power Source—115V, 1 phase, 60 Hertz (other electrical characteristics available on request)  
 Net Weight—65 lbs.  
 Shipping Weight—75 lbs.



**APPENDIX VII**  
**CALIBRATIONS**



AMBIENT AIR MONITORING FOR PCB  
Calibration Calculation Sheet

Calibration Number: CAL06-041  
Season: SUMMER

Site location: J5  
Date: 07/05/06  
Calibrated by: LT  
Sampler No.: 304

Baro., P2:	28.90 in Hg	734.06 mm Hg
Temp., T2:	24.0 °C	297.2 K
Summer Ave Baro., Pa:	29.0	735.7 mm Hg
Summer Ave Temp., Ta:	17.7	290.9 K

Calib Orifice exp. date: 1/16/07  
Calib.Orif.ID: Z20  
Calib.Orif.slope: 10.0127  
Calibration Orif.intercept: -0.03017

(Y1)	(Y2)	(Y3)	(Y4)	(X1)
7.30	70	2.66	8.23	0.269
6.50	60	2.51	7.62	0.254
5.45	50	2.3	6.96	0.233
4.40	40	2.06	6.22	0.209
3.35	30	1.8	5.39	0.183
2.15	20	1.44	4.4	0.147
0.95	10	0.96	3.11	0.099

Regression Output:	
Intercept	0.036
Std Err of Y Est	0.107
R Squared	0.997
Slope	29.9

**Set Point (0.225 m3/min): 46**  
**Set Point (0.257 m3/min): 60**

AMBIENT AIR MONITORING FOR PCB  
Calibration Calculation Sheet

Calibration Number: CAL06-041  
 Season: SUMMER  
 Site location: J3  
 Date: 07/05/06  
 Calibrated by: LT  
 Sampler No.: 010

Baro., P2:	28.90 in Hg	734.06 mm Hg
Temp., T2:	24.0 °C	297.2 K
Summer Ave Baro., Pa:	29.0	735.7 mm Hg
Summer Ave Temp., Ta:	17.7	290.9 K

Calib Orifice exp. date: 1/16/07  
 Calib.Orif.ID: Z20  
 Calib.Orif.slope: 10.0127  
 Calibration Orif.intercept: -0.03017

	<u>(Y1)</u>	<u>(Y2)</u>	<u>(Y3)</u>	<u>(Y4)</u>	<u>(X1)</u>
	7.50	70	2.7	8.23	0.273
	6.60	60	2.53	7.62	0.256
	5.65	50	2.34	6.96	0.237
	4.50	40	2.09	6.22	0.212
	3.35	30	1.8	5.39	0.183
	2.05	20	1.41	4.4	0.144
	0.90	10	0.93	3.11	0.096

Regression Output:	
Intercept	0.27
Std Err of Y Est	0.115
R Squared	0.997
Slope	28.581

**Set Point (0.225 m3/min): 45**  
**Set Point (0.257 m3/min): 58**

AMBIENT AIR MONITORING FOR PCB  
Calibration Calculation Sheet

Calibration Number: CAL06-041  
Season: SUMMER

Site location: J3 Co  
Date: 07/05/06  
Calibrated by: LT  
Sampler No.: 201

Baro., P2:	28.90 in Hg	734.06 mm Hg
Temp., T2:	24.0 °C	297.2 K
Summer Ave Baro., Pa:	29.0	735.7 mm Hg
Summer Ave Temp., Ta:	17.7	290.9 K

Calib Orifice exp. date: 1/16/07  
Calib.Orif.ID: Z20  
Calib.Orif.slope: 10.0127  
Calibration Orif.intercept: -0.03017

<u>(Y1)</u>	<u>(Y2)</u>	<u>(Y3)</u>	<u>(Y4)</u>	<u>(X1)</u>
7.40	70	2.68	8.23	0.271
6.45	60	2.5	7.62	0.253
5.65	50	2.34	6.96	0.237
4.60	40	2.11	6.22	0.214
3.40	30	1.81	5.39	0.184
2.20	20	1.46	4.4	0.149
1.10	10	1.03	3.11	0.106

Regression Output:	
Intercept	-0.2
Std Err of Y Est	0.107
R Squared	0.997
Slope	30.643

**Set Point (0.225 m3/min): 45**  
**Set Point (0.257 m3/min): 59**

AMBIENT AIR MONITORING FOR PCB  
Calibration Calculation Sheet

Calibration Number: CAL06-041  
Season: SUMMER

Site location: K1  
Date: 07/05/06  
Calibrated by: LT  
Sampler No.: 003

Baro., P2:	28.90 in Hg	734.06 mm Hg
Temp., T2:	24.0 °C	297.2 K
Summer Ave Baro., Pa:	29.0	735.7 mm Hg
Summer Ave Temp., Ta:	17.7	290.9 K

Calib Orifice exp. date: 1/16/07  
Calib.Orif.ID: Z20  
Calib.Orif.slope: 10.0127  
Calibration Orif.intercept: -0.03017

	<u>(Y1)</u>	<u>(Y2)</u>	<u>(Y3)</u>	<u>(Y4)</u>	<u>(X1)</u>
	6.95	70	2.59	8.23	0.262
	6.15	60	2.44	7.62	0.247
	5.30	50	2.27	6.96	0.23
	4.25	40	2.03	6.22	0.206
	3.30	30	1.79	5.39	0.182
	2.10	20	1.43	4.4	0.146
	0.95	10	0.96	3.11	0.099

Regression Output:	
Intercept	-0.121
Std Err of Y Est	0.14
R Squared	0.995
Slope	31.18

**Set Point (0.225 m3/min): 48**  
**Set Point (0.257 m3/min): 63**

AMBIENT AIR MONITORING FOR PCB  
Calibration Calculation Sheet

Calibration Number: CAL06-041  
Season: SUMMER

Site location: BB (Longfellow)  
Date: 07/05/06  
Calibrated by: LT  
Sampler No.: 302

Baro., P2:	28.90 in Hg	734.06 mm Hg
Temp., T2:	24.0 °C	297.2 K
Summer Ave Baro., Pa:	29.0	735.7 mm Hg
Summer Ave Temp., Ta:	17.7	290.9 K

Calib Orifice exp. date: 1/16/07  
Calib.Orif.ID: Z20  
Calib.Orif.slope: 10.0127

Calibration  
Orif.intercept: -0.03017

<u>(Y1)</u>	<u>(Y2)</u>	<u>(Y3)</u>	<u>(Y4)</u>	<u>(X1)</u>
7.45	70	2.69	8.23	0.272
6.60	60	2.53	7.62	0.256
5.65	50	2.34	6.96	0.237
4.55	40	2.1	6.22	0.213
3.45	30	1.83	5.39	0.186
2.20	20	1.46	4.4	0.149
1.00	10	0.98	3.11	0.101

Regression Output:	
Intercept	-0.009
Std Err of Y Est	0.119
R Squared	0.996
Slope	29.697

**Set Point (0.225 m3/min): 45**  
**Set Point (0.257 m3/min): 59**

**AMBIENT AIR MONITORING FOR PCB**  
Field Calibration Data Sheet

DATE: <u>7/5/06</u> TEMPERATURE: <u>24</u> BAROMETER: <u>28.9</u>	CALIBRATION EVENT: <u>CA206-041</u> PROJECT LOCATION: <u>Oxbow JPK</u> ORIFICE #: <u>200</u> ORIFICE EXPIRATION DATE: <u>1/16/07</u>
---	---

Location: J5  
 Monitor #: 304  
 ETM: 2103.3  
 Leak Check:

Location: J3  
 Monitor #: 010  
 ETM: 3227.4  
 Leak Check:

Magnehelic Setting	Manometer Reading
70	7.30
60	6.50
50	5.45
40	4.40
30	3.35
20	2.15
10	0.95

Magnehelic Setting	Manometer Reading
70	7.50
60	6.60
50	5.65
40	4.50
30	3.35
20	2.05
10	0.90

Location: J3 - C0  
 Monitor #: 201  
 ETM: 3727.1  
 Leak Check:

Location: K1  
 Monitor #: 003  
 ETM: 3481.4  
 Leak Check:

Magnehelic Setting	Manometer Reading
70	7.40
60	6.45
50	5.65
40	4.60
30	3.40
20	2.20
10	1.10

Magnehelic Setting	Manometer Reading
70	6.95
60	6.15
50	5.30
40	4.25
30	3.30
20	2.10
10	0.95

**AMBIENT AIR MONITORING FOR PCB**  
Field Calibration Data Sheet

DATE: <u>7/5/06</u> TEMPERATURE: <u>24</u> BAROMETER: <u>28.9</u>	CALIBRATION EVENT: <u>CAL06-041</u> PROJECT LOCATION: <u>Oxbow J&amp;K</u> ORIFICE #: <u>220</u> ORIFICE EXPIRATION DATE: <u>1/16/07</u>
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Location: BB  
 Monitor #: 302  
 ETM: 4363.1  
 Leak Check:

Location: \_\_\_\_\_  
 Monitor #: \_\_\_\_\_  
 ETM: \_\_\_\_\_  
 Leak Check: \_\_\_\_\_

Magnehelic Setting	Manometer Reading
70	7.45
60	6.60
50	5.65
40	4.55
30	3.45
20	2.20
10	1.00

Magnehelic Setting	Manometer Reading
70	
60	
50	
40	
30	
20	
10	

Location: \_\_\_\_\_  
 Monitor #: \_\_\_\_\_  
 ETM: \_\_\_\_\_  
 Leak Check: \_\_\_\_\_

Location: \_\_\_\_\_  
 Monitor #: \_\_\_\_\_  
 ETM: \_\_\_\_\_  
 Leak Check: \_\_\_\_\_

Magnehelic Setting	Manometer Reading
70	
60	
50	
40	
30	
20	
10	

Magnehelic Setting	Manometer Reading
70	
60	
50	
40	
30	
20	
10	

**APPENDIX VIII**  
**FLOW CALCULATIONS**  
**&**  
**SINGLE POINT AUDITS**



AMBIENT AIR MONITORING FOR PCB  
Flow & Concentration Calculation Sheet

Location:	<b>Oxbows J &amp; K Background</b>	Data Entered By:	<b>C. Bartlett</b>
Event Date:	<b>07/06/06 - 07/07/06</b>	Blank Head No.:	<b>113</b>
Cal Orifice ID:	<b>Z20</b>	Cal. Orifice Exp. Date:	<b>01/16/07</b>
Cal Orifice Slope:	<b>10.01274</b>	Intercept:	<b>-0.03017</b>

SAMPLER LOCATION		J3	J3-CO	J5	K1	BB
SAMPLER NO.		010	201	304	003	302
SAMPLE HEAD NO.		112	104	108	101	106
PUF CLEAN DATE		06/29/06	06/29/06	06/29/06	06/29/06	06/29/06
PRE-EVENT 1-POINT AUDIT		5.55	5.45	5.2	5.45	5.45
AUDIT TEMPERATURE		16	16	16	16	16
AUDIT BAROMETER		29	29	29	29	29
ETM READING (START)		3227.56	3727.32	2103.37	3481.55	4363.16
START-UP MAG. READING		45	45	46	43	45
6 HOURS	MAG. READING	43	43	43	43	45
	TEMPERATURE	23	23	23	23	23
	BAROMETER	29.1	29.1	29.1	29.1	29.1
12 HOURS	MAG. READING	45	46	46	45	46
	TEMPERATURE	16	16	16	16	16
	BAROMETER	29.1	29.1	29.1	29.1	29.1
18 HOURS	MAG. READING	46	46	48	46	46
	TEMPERATURE	10	10	10	10	10
	BAROMETER	29.2	29.2	29.2	29.2	29.2
FINAL MAG. READING		45	45	46	46	45
ETM READING (FINISH)		3250.77	3750.52	2127.33	3505.15	4387.16
POST-EVENT 1-POINT AUDIT		5.45	5.35	5.2	5.35	5.45
AUDIT TEMPERATURE		17	17	17	17	17
AUDIT BAROMETER		29.25	29.25	29.25	29.25	29.25
PRE-EVENT AUDIT FLOW RATE		0.238	0.236	0.231	0.236	0.236
% DIFF FROM TARGET FLOW		-5.5	-4.7	-2.6	-4.7	-4.7
POST-EVENT AUDIT FLOW RATE		0.237	0.234	0.231	0.234	0.237
% DIFF FROM TARGET FLOW		-5.1	-3.8	-2.6	-3.8	-5.1
CALIBRATION NUMBER		CAL06-041	CAL06-041	CAL06-041	CAL06-041	CAL06-041
SAMPLER INTERCEPT		0.27	-0.2	0.036	-0.121	-0.009
SAMPLER SLOPE		28.581	30.643	29.9	31.18	29.697
BEGINNING FLOW RATE		0.225	0.225	0.225	0.214	0.226
6-HOUR FLOW RATE		0.218	0.218	0.216	0.212	0.224
12-HOUR FLOW RATE		0.226	0.228	0.226	0.219	0.229
18-HOUR FLOW RATE		0.231	0.231	0.234	0.224	0.232
FINAL FLOW RATE		0.226	0.226	0.226	0.222	0.227
AVERAGE FLOW RATE		0.225	0.226	0.225	0.218	0.228
SAMPLE TIME		24	24	24	24	24
TOTAL STD. VOLUME (m3)		324	325.4	324	313.9	328.3
µg / PUF		0.26	0.33	0.42	0.20	0.96
µg / m3		0.0008	0.0010	0.0013	0.0006	0.0029

Note: Flow maxed

AMBIENT AIR MONITORING FOR PCB  
Flow & Concentration Calculation Sheet

Location:	<b>Oxbows J&amp;K Background</b>	Data Entered By:	<b>L. Tustin</b>
Event Date:	<b>07/08/06 - 07/09/06</b>	Blank Head No.:	<b>204</b>
Cal Orifice ID:	<b>Z20</b>	Cal. Orifice Exp. Date:	<b>01/16/07</b>
Cal Orifice Slope:	<b>10.01274</b>	Intercept:	<b>-0.03017</b>

SAMPLER LOCATION		J3	J3-CO	J5	K1	BB
SAMPLER NO.		010	201	304	003	302
SAMPLE HEAD NO.		201	202	203	205	M2
PUF CLEAN DATE		06/29/06	06/29/06	06/29/06	06/29/06	06/29/06
PRE-EVENT 1-POINT AUDIT		5.5	5.5	5.4	5.3	5.55
AUDIT TEMPERATURE		16	16	16	16	16
AUDIT BAROMETER		29.3	29.3	29.3	29.3	29.3
ETM READING (START)		3250.8	3750.58	2127.36	3505.2	4387.19
START-UP MAG. READING		45	45	46	47	45
6 HOURS	MAG. READING	44	43	43	46	43
	TEMPERATURE	28	28	28	28	28
	BAROMETER	29.2	29.2	29.2	29.2	29.2
12 HOURS	MAG. READING	44	45	47	45	48
	TEMPERATURE	23	23	23	23	23
	BAROMETER	29.15	29.15	29.15	29.15	29.15
18 HOURS	MAG. READING	45	46	47	46	44
	TEMPERATURE	15	15	15	15	15
	BAROMETER	29.1	29.1	29.1	29.1	29.1
FINAL MAG. READING		45	45	45	46	45
ETM READING (FINISH)		3273.94	3773.72	2151.29	3528.77	4411.19
POST-EVENT 1-POINT AUDIT		5.45	5.2	5.15	5.1	5.3
AUDIT TEMPERATURE		21	21	21	21	25
AUDIT BAROMETER		29.1	29.1	29.1	29.1	29
PRE-EVENT AUDIT FLOW RATE		0.238	0.238	0.236	0.234	0.239
% DIFF FROM TARGET FLOW		-5.5	-5.5	-4.7	-3.8	-5.9
POST-EVENT AUDIT FLOW RATE		0.234	0.229	0.228	0.227	0.229
% DIFF FROM TARGET FLOW		-3.8	-1.7	-1.3	-0.9	-1.7
CALIBRATION NUMBER		CAL06-041	CAL06-041	CAL06-041	CAL06-041	CAL06-041
SAMPLER INTERCEPT		0.27	-0.2	0.036	-0.121	-0.009
SAMPLER SLOPE		28.581	30.643	29.9	31.18	29.697
BEGINNING FLOW RATE		0.226	0.226	0.227	0.225	0.227
6-HOUR FLOW RATE		0.219	0.217	0.214	0.218	0.217
12-HOUR FLOW RATE		0.22	0.223	0.226	0.217	0.231
18-HOUR FLOW RATE		0.226	0.228	0.229	0.222	0.224
FINAL FLOW RATE		0.224	0.224	0.221	0.22	0.223
AVERAGE FLOW RATE		0.223	0.224	0.223	0.22	0.224
SAMPLE TIME		24	24	24	24	24
TOTAL STD. VOLUME (m3)		321.1	322.6	321.1	316.8	322.6
µg / PUF		0.21	0.52	0.72	0.82	0.18
µg / m3		0.0007	0.0016	0.0022	0.0026	0.0006

Note: Flow maxed

AMBIENT AIR MONITORING FOR PCB  
Flow & Concentration Calculation Sheet

Location:	Oxbows J&K	Data Entered By:	J. Barlow
Event Date:	07/13/06 - 07/14/06	Blank Head No.:	202
Cal Orifice ID:	Z20	Cal. Orifice Exp. Date:	01/16/07
Cal Orifice Slope:	10.01274	Intercept:	-0.03017

SAMPLER LOCATION		J3	J3-CO	J5	K1	BB
SAMPLER NO.		010	201	304	003	302
SAMPLE HEAD NO.		104	106	204	205	203
PUF CLEAN DATE		07/10/06	07/10/06	07/10/06	07/10/06	07/10/06
PRE-EVENT 1-POINT AUDIT		5.5	5.4	5.2	5.2	5.35
AUDIT TEMPERATURE		20	20	20	20	20
AUDIT BAROMETER		28.9	28.9	28.9	28.9	28.9
ETM READING (START)		3273.96	3773.74	2151.3	3528.86	4411.61
START-UP MAG. READING		45	45	46	48	45
6 HOURS	MAG. READING	45	45	45	48	46
	TEMPERATURE	18	18	18	18	18
	BAROMETER	28.95	28.95	28.95	28.95	28.95
12 HOURS	MAG. READING	45	45	45	46	44
	TEMPERATURE	24	24	24	24	24
	BAROMETER	29	29	29	29	29
18 HOURS	MAG. READING	49	47	48	49	47
	TEMPERATURE	12	12	12	12	12
	BAROMETER	29	29	29	29	29
FINAL MAG. READING		43	45	46	48	45
ETM READING (FINISH)		3296.92	3797.29	2175.17	3552.71	4435.61
POST-EVENT 1-POINT AUDIT		5.15	5.05	5.05	5.15	5.05
AUDIT TEMPERATURE		18	18	18	18	18
AUDIT BAROMETER		29	29	29	29	29
PRE-EVENT AUDIT FLOW RATE		0.235	0.233	0.229	0.229	0.232
% DIFF FROM TARGET FLOW		-4.3	-3.4	-1.7	-1.7	-3
POST-EVENT AUDIT FLOW RATE		0.229	0.227	0.227	0.229	0.227
% DIFF FROM TARGET FLOW		-1.7	-0.9	-0.9	-1.7	-0.9
CALIBRATION NUMBER		CAL06-041	CAL06-041	CAL06-041	CAL06-041	CAL06-041
SAMPLER INTERCEPT		0.27	-0.2	0.036	-0.121	-0.009
SAMPLER SLOPE		28.581	30.643	29.9	31.18	29.697
BEGINNING FLOW RATE		0.223	0.223	0.224	0.224	0.224
6-HOUR FLOW RATE		0.224	0.224	0.222	0.225	0.228
12-HOUR FLOW RATE		0.222	0.222	0.22	0.218	0.22
18-HOUR FLOW RATE		0.237	0.232	0.232	0.23	0.233
FINAL FLOW RATE		0.219	0.225	0.225	0.225	0.225
AVERAGE FLOW RATE		0.225	0.225	0.225	0.224	0.226
SAMPLE TIME		24.01	24.04	24.02	24	24
TOTAL STD. VOLUME (m3)		324.1	324.5	324.3	322.6	325.4
µg / PUF		0.42	0.39	1.65	0.38	1.55
µg / m3		0.0013	0.0012	0.0051	0.0012	0.0048

**APPENDIX IX**  
**CHAIN OF CUSTODY FORMS**



# CHAIN OF CUSTODY RECORD

## SGS Environmental Services Inc.

Locations Nationwide  
• Alaska  
• Louisiana  
• New Jersey  
• West Virginia  
• Hawaii  
• Maryland  
• North Carolina  
www.us.sgs.com 050714

1 CLIENT: Berkshire Environmental Cons. Inc.  
 CONTACT: MAURA HAWKINS PHONE NO.: 413 4430136  
 PROJECT: Oxbow J&K Background SITES/WSID#:  
 REPORTS TO: Berkshire Env. Cons. Inc.  
152 North St. Suite 210  
Pittsfield, MA 01201 FAX NO.: 413 4431297  
 INVOICE TO: BBL QUOTE #  
 P.O. NUMBER

SGS Reference: 6782-10 PAGE 1 OF 1

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	SAMPLE TYPE	No CONTAINERS	Preservatives Used	Analysis Required	REMARKS
	BLK-070706-000	7/7/06	7:00	PUF	G	1			
	J3-070706-010		7:21		G	1			
	J3Co-070706-201		7:21		G	1			
	J5-070706-304		7:00		G	1			
	K1-070706-003		7:00		G	1			
	BB-070706-302		7:00	↓	G	1			

4 Shipping Carrier: FedEx Samples Received Cold? (Circle) YES NO  
 Shipping Ticket No: 85762462901 Temperature (C): 3.3°C  
 Special Deliverable Requirements:  
 Chain of Custody Seal: (Circle) INTACT INTACT BROKEN ABSENT  
 Requested Turnaround Time and Special Instructions:  
3 Days

5 Collected/Relinquished By: (1) [Signature] Received By: \_\_\_\_\_  
 Relinquished By: (2) [Signature] Received By: [Signature]  
 Relinquished By: (3) \_\_\_\_\_ Received By: \_\_\_\_\_  
 Relinquished By: (4) \_\_\_\_\_ Received By: \_\_\_\_\_





**CHAIN OF CUSTODY RECORD**  
**SGS Environmental Services Inc.**

- Locations Nationwide
- Alaska
  - Hawaii
  - Louisiana
  - Maryland
  - New Jersey
  - North Carolina
  - West Virginia
- www.us.sgs.com

6782-15

1 CLIENT: Berkshire Environmental Care, Inc  
 CONTACT: Maura Hawken PHONE NO: (413) 443-0630  
 PROJECT: Oxbow J&K SITE/FWSID#: \_\_\_\_\_  
 REPORTS TO: Berkshire Environmental Care  
152 North St. Suite 250  
Pittsfield MA 01201 FAX NO: 413 443 1297  
 INVOICE TO: BBL QUOTE # \_\_\_\_\_  
 P.O. NUMBER \_\_\_\_\_

SGS Reference: \_\_\_\_\_

635-4163-7111K

PAGE 1

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE	Preservatives Used	Analysis Required	REMARKS
	B1K-071406-000	7/14/00	7:00	PDF	1	G		X	
	J3-071406-010		7:08		1	G		X	
	J3C0-071406-201		7:08		1	G		X	
	J5-071406-304		7:07		1	G		X	
	K1-071406-003		7:00		1	G		X	
	B6-071406-302		7:00	↓	1	G		X	

PCB (TO-4)

6782-15

5 Collected/Relinquished By: (1) \_\_\_\_\_ Date: 7/14/00 Time: 3:30 Received By: \_\_\_\_\_

Relinquished By: (2) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

Relinquished By: (3) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

Relinquished By: (4) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

4 Shipping Carrier: FedEx Samples Received Cold? (Circle) YES NO  
 Shipping Ticket No: 857624628986 Temperature (C): 5.7°C

Special Deliverable Requirements: \_\_\_\_\_ Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions: 3 Days

**APPENDIX X**  
**SAMPLING DATA SHEETS**



Oxbow

AMBIENT AIR MONITORING FOR PCB  
Sampling Data Sheet

Date: 7/16-7/17/06

Performed By:

Courne Bartlett Liz Tustin  
Tom Benson

BLANK HEAD NO.: 113

		J3	J3-Co	J5	K1	BB
SAMPLER LOCATION		J3	J3-Co	J5	K1	BB
SAMPLER NO.		010	201	304	003	302
MAG. (FLOW) SETTING		<del>45</del> 45	<del>45</del> 45	46	48	45
SAMPLE HEAD NO.		112	104	108	101	106
MAG. ZERO SET (CHECK)		✓	✓	✓	✓	✓
PRE-EVENT 1-POINT AUDIT		5.55	5.45	5.2	5.45	5.45
AUDIT TEMPERATURE		16	16	16	16	16
AUDIT BAROMETER		29.0	29	29	29	29
TIME OF SAMPLE HEAD INST.		6:40	6:42	6:48	6:54	6:59
ETM READING (START)		3227.56	3227.32	2103.37	3481.55	4363.16
TIMER SET TO START AT		7:21 <sup>*1</sup>	7:21 <sup>*1</sup>	7:00	7:00	7:00
START-UP MAG. READING		45	45	46	43 <sup>*2</sup>	45
6 HOURS	MAG. READING	43	43	43	43	45
	MAG. ADJUSTED TO	45	45	46	-	-
	ETM READING	3232.96	3732.72	2109.35	3487.11	4368.84
	TIME	12:55	12:55	1:00	12:40	12:41
	TEMPERATURE	23	23	23	23	23
	BAROMETER	29.1	29.1	29.1	29.1	29.1
12 HOURS	MAG. READING	45	46	46	*45	46
	MAG. ADJUSTED TO	✓	45	✓	45	45
	ETM READING	3240.04	3739.80	2116.50	3494.71	4376.70
	TIME	8:13	8:14	8:08	8:14	8:33
	TEMPERATURE	16°C	16°	16°	16°	16°
	BAROMETER	29.1	29.1	29.1	29.1	29.1
18 HOURS	MAG. READING	46	46	48	46	46
	MAG. ADJUSTED TO	45	45	46	*46	45
	ETM READING	3244.88	3744.66	2121.65	3499.24	4381.16
	TIME	1:15A	1:16A	1:18A	1:00A	1:01A
	TEMPERATURE	10°C	10°	10°	16°	18°
	BAROMETER	29.2	29.2	29.2	29.2	29.2
FINAL MAG. READING		45	45	46	46 <sup>*max</sup>	45
ETM READING (FINISH)		3250.77	3750.52	2127.33	3505.15	4387.16
TIME OF SAMPLE COLLECTION		7:22	7:25	7:03	7:42	7:38
POST-EVENT 1-POINT AUDIT		5.45	5.35	5.2	5.35	5.45
AUDIT TEMPERATURE		17	17	17	17	17
AUDIT BAROMETER		29.25	29.25	29.25	29.25	29.25

\*1 GFI tripped

\*2 Max .. .. .

Oxbow

AMBIENT AIR MONITORING FOR PCB  
Sampling Data Sheet

Date: 7/8-7/9/06

Performed By:

Cianne Bartlett

BLANK HEAD NO.: 204

Tom Benson

SAMPLER LOCATION		J3	J3C0	J5	K1	B3
SAMPLER NO.		016	201	304	003	302
MAG. (FLOW) SETTING		45	45	46	48	45
SAMPLE HEAD NO.		201	202	203	205	M2
MAG. ZERO SET (CHECK)		✓	✓	✓	✓	✓
PRE-EVENT 1-POINT AUDIT		5.50	5.50	5.40	5.30	5.55
AUDIT TEMPERATURE		16	16	16	16	16
AUDIT BAROMETER		29.3	29.3	29.3	29.3	29.3
TIME OF SAMPLE HEAD INST.		6:53	6:52	6:59	6:46	6:40
ETM READING (START)		3250.80	3750.58	2127.36	3505.20	4387.19
TIMER SET TO START AT		7:00	7:00	7:00	7:00	7:00
START-UP MAG. READING		45	45	46	47	45
6 HOURS	MAG. READING	44	43	43	46	43
	MAG. ADJUSTED TO	45	45	46	*46	45
	ETM READING	3257.12	3756.91	2133.74	3511.79	4393.93
	TIME	1:31	1:32	1:24	1:43	1:44
	TEMPERATURE	28°C	28°	28°	28°	28°
	BAROMETER	29.2	29.2	29.2	29.2	29.2
12 HOURS	MAG. READING	44	45	47	45	*48*
	MAG. ADJUSTED TO	45	✓	46	*45	45
	ETM READING	3262.94	3762.69	2139.72	3517.68	4396.07
	TIME	7:33	7:32	7:24	7:40	7:51
	TEMPERATURE	23°C	23°	23°	23°	23°
	BAROMETER	29.15	29.15	29.15	29.15	29.15
18 HOURS	MAG. READING	45	46	47	46	44
	MAG. ADJUSTED TO	✓	45	46	*46	45
	ETM READING	3268.14	3767.94	2145.26	3520.77	4401.05
	TIME	10:58 A	10:59 A	10:57 A	10:51 A	10:50 A
	TEMPERATURE	15°C	15°	15°	15°	15°
	BAROMETER	29.1	29.1	29.1	29.1	29.1
FINAL MAG. READING		45	45	45	46	45
ETM READING (FINISH)		3273.94	3773.72	2151.29	3528.77	4411.19
TIME OF SAMPLE COLLECTION		7:01	7:04	7:11	7:24	11:10
POST-EVENT 1-POINT AUDIT		5.45	5.20	5.15	5.10	5.3
AUDIT TEMPERATURE		21	21	21	21	25
AUDIT BAROMETER		29.1	29.1	29.1	29.1	29.0

\* \* \* unplugged at 7:45  
\* \* \* maked

**AMBIENT AIR MONITORING FOR PCB**  
Sampling Data Sheet

Date: 7/13-7/14/06  
BLANK HEAD NO.: 202

Performed By: Connie Bartlett  
PAUL Austin Liz Tustin

		53	5360	55	K1	RB
SAMPLER LOCATION		010	201	304	003	302
SAMPLER NO.		45	45	46	48	45
MAG. (FLOW) SETTING		104	106	204	205	203
SAMPLE HEAD NO.		✓	✓	✓	✓	✓
MAG. ZERO SET (CHECK)		5.50	5.40	5.2	5.20	5.35
PRE-EVENT 1-POINT AUDIT		20	20	20	20	20
AUDIT TEMPERATURE		28.9	28.9	28.9	28.9	28.9
AUDIT BAROMETER		6.41	6.43	6.58	6.30	6.26
TIME OF SAMPLE HEAD INST.		3273.96	3773.74	2151.30	3528.86	4411.61
ETM READING (START)		7:08	7:08	7:07	7:00	7:00
TIMER SET TO START AT		45	45	46	48	45
START-UP MAG. READING		45	45	45	48	46
6 HOURS	MAG. READING	-	-	46	-	45
	MAG. ADJUSTED TO	-	-	46	-	45
	ETM READING	3279.17	3778.95	2156.62	3534.47	4417.45
	TIME	12:30	12:30	12:28	12:39	12:52
	TEMPERATURE	18	18	18	18	18
12 HOURS	BAROMETER	28.95	28.95	28.95	28.95	28.95
	MAG. READING	45	45	46	48	45
	MAG. ADJUSTED TO	-	-	46	48	45
	ETM READING	3285.28	3785.07	2162.94	3540.88	4423.89
	TIME	6:57	6:57	6:49	7:05	7:18
18 HOURS	TEMPERATURE	29	29	29°C	29°C	29°C
	BAROMETER	29.0	29.0	29.0	29.0	29.0
	MAG. READING	49	47	48	49	47
	MAG. ADJUSTED TO	45	45	46	48	45
	ETM READING	3289.81	3789.70	2169.07	3547.15	4430.18
6 HOURS	TIME	1:13	1:13	12:58	1:23	1:23
	TEMPERATURE	12	12	12	12	12
	BAROMETER	29.0	29.0	29.0	29.0	29.0
	MAG. READING	43	45	46	48	45
	ETM READING (FINISH)	3296.92	3797.29	2175.17	3552.71	4435.61
TIME OF SAMPLE COLLECTION	8:51**	9:13**	7:08	7:20	7:30	
POST-EVENT 1-POINT AUDIT	5.15	5.05	5.05	5.15	5.05	
AUDIT TEMPERATURE	18	18	18	18	18	
AUDIT BAROMETER	29.0	29.0	29.0	29.0	29.0	

PCB event ran concurrently w/ OPLA

ⓐ MONITORS OFF RESTARTED - GAS TANK EMPTY - time lost.

## **APPENDIX XI**

### **AVERAGE PERCENT DIFFERENCE CALCULATIONS**

**AVERAGE PERCENT DIFFERENCE CALCULATIONS - PCB SAMPLING**  
**FORMER OXBOW AREAS J AND K**  
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Former Oxbow Areas J and K Soil Remediation				
Sampling Date	Sampling Location	Primary (ug/m <sup>3</sup> )	Co-located (ug/m <sup>3</sup> )	% Difference
07/06-07/07/06	J3	0.0008	0.0010	-0.22
07/08-07/09/06	J3	0.0007	0.0016	-0.78
07/13-07/14/06	J3	0.0013	0.0012	0.08
Average % Difference				0.36

Percent Difference =  $2 * [(primary - colocator) / (primary + colocator)]$

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**Appendix F**

Data Validation Report for  
Ambient Air Sampling Data for  
PCBs at Former Oxbow Areas J  
and K

**Appendix F**  
**Data Validation Report for Ambient Air Sampling Data for PCBs at Former Oxbow Areas J and K**  
**Final Completion Report for Former Oxbow Areas J and K Removal Action**

**General Electric Company**  
**Pittsfield, Massachusetts**

**1.0 General**

This appendix summarizes the data validation review performed on behalf of the General Electric Company (GE) for the ambient air sampling data for polychlorinated biphenyls (PCBs) collected in July 2006 during soil remediation activities at the Former Oxbow Areas J and K Removal Action Area (RAA) located in Pittsfield, Massachusetts. The sampling was conducted by Berkshire Environmental Consultants, Inc. (BEC), and the samples were analyzed for PCBs, using U.S. Environmental Protection Agency (EPA) Method TO-4A, by SGS Environmental Services, Inc. (formerly Paradigm Analytical Labs, Inc.) of Wilmington, North Carolina. Data review was performed for 18 PCB samples.

**2.0 Data Evaluation Procedures**

The data review was conducted in accordance with the following documents:

- *Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS BBL (submitted by GE on March 30, 2007 and approved by EPA on June 13, 2007);*
- *Region I Tiered Organic and Inorganic Data Validation Guidelines, EPA Region I (July 1, 1993); and*
- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, EPA Region I (Draft, December 1996).*

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

The following data qualifiers were considered for use in this data evaluation:

- J The compound was positively identified, but the associated numerical value is an estimated concentration. This qualifier is used when the data evaluation procedure identifies a deficiency in the data generation process. This qualifier is also used when a compound is detected at an estimated concentration less than the corresponding practical quantitation limit (PQL).
- U The compound was analyzed for, but was not detected. The sample quantitation limit is presented. Non-detect sample results are presented as ND(PQL) within this report for consistency with documents previously prepared for investigations conducted at the GE-Pittsfield/Housatonic River Site.

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

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

### **3.0 Data Validation Procedures**

Section 7.5 of the FSP/QAPP states that analytical data will be validated to a Tier I level following the procedures presented in the *Region I Tiered Organic and Inorganic Data Validation Guidelines* (EPA guidelines). All ambient air analytical data collected during July 2006 were subject to Tier I review. The Tier I review consisted of a completeness evidence audit, as outlined in the *EPA Region I CSF Completeness Evidence Audit Program* (EPA Region I, July 31, 1991), to ensure that laboratory data and documentation were present. In the event data packages were determined to be incomplete, the missing information was requested from the laboratory. Upon completion of the Tier I review, the data packages complied with the EPA Region I Tier I data completeness requirements.

One of the three laboratory sample delivery group packages obtained during July 2006 (approximately 33% of the data) was randomly chosen to be subjected to Tier II review. The Tier II data review consisted of a review of data package summary forms for identification of quality assurance/quality control (QA/QC) deviations and qualification of the data according to the Region I Data Validation Functional Guidelines. Additionally, co-located field duplicates were examined for relative percent difference (RPD) compliance with the criteria specified in the FSP/QAPP.

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

Parameter	Tier I Only			Tier I & Tier II			Total
	Samples	Co-Located Field Duplicates	Blanks	Samples	Co-Located Field Duplicates	Blanks	
EPA TO-4A	8	2	2	4	1	1	18
<b>Total</b>	<b>8</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>18</b>

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



#### **4.0 Summary of QA/QC Parameter Deviations Requiring Data Qualification**

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

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

**Compounds Qualified Due to Co-Located Field Duplicate Deviations**

<b>Analysis</b>	<b>Compound</b>	<b>Number of Affected Samples</b>	<b>Qualification</b>
EPA TO-4A (PCBs)	Aroclor-1254	2	J
	Total PCBs	2	J

#### **5.0 Overall Data Usability**

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

**Data Usability**

<b>Parameter</b>	<b>Percent Usability</b>	<b>Rejected Data</b>
PCBs	100	None

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

## **5.1 Precision**

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, it is a quantitative measure of the variability of a group of measurements compared to their average value. For this investigation, precision was defined as the RPD between co-located field duplicate sample results and between the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) results. For this analytical data set, 2.8% of the data required qualification due to co-located field duplicate deviations. None of the data required qualification due to LCS/LCSD RPD.

## **5.2 Accuracy**

Accuracy measures the bias in an analytical system or the degree of agreement of a measurement with a known reference value. For this investigation, accuracy was defined as the percent recovery of QA/QC samples that were spiked with a known concentration of an analyte or compound of interest. The QA/QC samples used to evaluate analytical accuracy included instrument calibration, LCSs, and surrogate compound recoveries. For this analytical program, none of the data required qualification due to instrument calibration deviations, LCS recovery deviations, or surrogate compound recovery deviations.

## **5.3 Representativeness**

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

## **5.4 Comparability**

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. This goal was achieved through the use of the standardized techniques for sample collection and analysis presented in the FSP/QAPP. Specifically, all the ambient air samples collected in July 2006 were analyzed by a single EPA analytical method – EPA Method TO-4A.

## **5.5 Completeness**

Completeness is defined as the percentage of measurements that are judged to be valid or usable to meet the prescribed DQOs. The completeness criterion is essentially the same for all data uses -- the generation of a sufficient amount of valid data. This analytical data set had an overall usability of 100%.

**TABLE F - 1**  
**ANALYTICAL DATA VALIDATION SUMMARY**  
**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION**

**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**  
(Results are presented in micrograms per PUF, ug/PUF)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
<b>EPA TO-4A</b>											
G782-10	BLK-070706-000	7/7/2006	Air	Tier I	No						
G782-10	J3-070706-010	7/7/2006	Air	Tier I	No						
G782-10	J3Co-070706-201	7/7/2006	Air	Tier I	No						
G782-10	J5-070706-304	7/7/2006	Air	Tier I	No						
G782-10	K1-070706-003	7/7/2006	Air	Tier I	No						
G782-10	BB-070706-302	7/7/2006	Air	Tier I	No						
G782-13	BLK-070906-000	7/9/2006	Air	Tier II	No						
G782-13	J3-070906-010	7/9/2006	Air	Tier II	Yes	Aroclor-1254	Co-located Field Duplicate RPD	82.6%	<50%	0.214 J	
						Total PCBs	Co-located Field Duplicate RPD	82.6%	<50%	0.214 J	
G782-13	J3Co-070906-201	7/9/2006	Air	Tier II	Yes	Aroclor-1254	Co-located Field Duplicate RPD	82.6%	<50%	0.515 J	
						Total PCBs	Co-located Field Duplicate RPD	82.6%	<50%	0.515 J	
G782-13	J5-070906-304	7/9/2006	Air	Tier II	No						
G782-13	K1-070906-003	7/9/2006	Air	Tier II	No						
G782-13	BB-070906-302	7/9/2006	Air	Tier II	No						
G782-15	BLK-071406-000	7/14/2007	Air	Tier I	No						
G782-15	J3-071406-010	7/14/2007	Air	Tier I	No						
G782-15	J3Co-071406-201	7/14/2007	Air	Tier I	No						
G782-15	J5-071406-304	7/14/2007	Air	Tier I	No						
G782-15	K1-071406-003	7/14/2007	Air	Tier I	No						
G782-15	BB-071406-302	7/14/2007	Air	Tier I	No						

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**Appendix G**

Evaluation of Recreational Area  
R1 Based on Residential  
Performance Standards

**TABLE G-1  
EXISTING CONDITIONS  
RECREATIONAL AREA R1 - 0- TO 1-FOOT DEPTH INCREMENT**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

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

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA15-DE1	662, 663, 699, 700	362	0 - 0.5	0.32	6.70	0.32	2.14
RAA15-DE1.5	588A	33	0 - 0.5	0.82	0.60	0.82	0.50
RAA15-E0	85, 701, 702	407	0 - 0.5	0.037	7.53	0.04	0.28
RAA15-E1	664, 665, 703, 704	586	0 - 0.5	0.081	10.85	0.08	0.88
RAA15-E1.5	591	222	0 - 0.5	0.2	4.10	0.20	0.82
RAA15-EF1	86, 705, 706	671	0 - 0.5	0.4	12.43	0.40	4.97
RAA15-EF1.5	87, 595	426	0 - 0.5	1.06	7.88	1.06	8.35
RAA15-F1	88, 599	468	0 - 0.5	0.22	8.66	0.22	1.91
RAA15-F1.5	89, 707, 708	599	0 - 0.5	0.67	11.09	0.67	7.43
RAA15-F2	600A	30	0 - 0.5	0.43	0.55	0.43	0.24
RAA15-FG1	603	334	0 - 0.5	0.42	6.19	0.42	2.60
RAA15-FG1.5	90, 709, 710	552	0 - 0.5	0.3575	10.22	0.36	3.65
RAA15-FG2	604A	204	0 - 0.5	0.35	3.77	0.35	1.32
RAA15-G1	606	238	0 - 0.5	0.84	4.40	0.84	3.70
RAA15-G1.5	91, 711, 712	357	0 - 0.5	0.37	6.60	0.37	2.44
RAA15-G2	92, 607	585	0 - 0.5	3.3	10.83	3.30	35.75
RAA15-G2.5	608	103	0 - 0.5	0.61	1.91	0.61	1.17
RAA15-GH1.5	93, 609	441	0 - 0.5	0.43	8.17	0.43	3.51
RAA15-GH2	94, 713, 714	568	0 - 0.5	0.21	10.53	0.21	2.21
RAA15-GH2.5	610	7	0 - 0.5	20.2	0.13	20.20	2.66
RAA15-H1.5	95, 611	340	0 - 0.5	0.97	6.30	0.97	6.11
RAA15-H2	96, 715, 716	254	0 - 0.5	1.07	4.70	1.07	5.02
RAA15-I2	612	99	0 - 0.5	0.5	1.83	0.50	0.91
<b>Totals:</b>	--	7,883	--	--	145.99	--	98.58
<b>Volume-Weighted Average:</b>							<b>0.68</b>

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

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA15-DE1	674, 675, 709, 710	362	0.5 - 1	0.32	6.70	0.32	2.14
RAA15-DE1.5	488A	33	0.5 - 1	0.82	0.60	0.82	0.50
RAA15-E0	609, 676, 677	407	0.5 - 1	0.037	7.53	0.04	0.28
RAA15-E1	678, 679, 711, 712	586	0.5 - 1	0.081	10.85	0.08	0.88
RAA15-E1.5	491A	222	0.5 - 1	0.2	4.10	0.20	0.82
RAA15-EF1	610, 680, 681	671	0.5 - 1	0.4	12.43	0.40	4.97
RAA15-EF1.5	495, 611	426	0.5 - 1	1.06	7.88	1.06	8.36
RAA15-F1	499, 612	468	0.5 - 1	0.22	8.66	0.22	1.91
RAA15-F1.5	613, 682, 683	599	0.5 - 1	0.67	11.09	0.67	7.43
RAA15-F2	500A	30	0.5 - 1	0.43	0.55	0.43	0.24
RAA15-FG1	503	334	0.5 - 1	0.42	6.19	0.42	2.60
RAA15-FG1.5	614, 684, 685	552	0.5 - 1	0.3575	10.22	0.36	3.65
RAA15-FG2	504	204	0.5 - 1	0.35	3.77	0.35	1.32
RAA15-G1	506	238	0.5 - 1	0.84	4.40	0.84	3.70
RAA15-G1.5	615, 686, 687	357	0.5 - 1	0.37	6.60	0.37	2.44
RAA15-G2	507, 616	585	0.5 - 1	3.3	10.83	3.30	35.75
RAA15-G2.5	508	103	0.5 - 1	0.61	1.91	0.61	1.17
RAA15-GH1.5	509, 617	441	0.5 - 1	0.43	8.17	0.43	3.51
RAA15-GH2	618, 688, 689	568	0.5 - 1	0.21	10.53	0.21	2.21
RAA15-GH2.5	510	7	0.5 - 1	20.2	0.13	20.20	2.66
RAA15-H1.5	511, 619	340	0.5 - 1	0.97	6.30	0.97	6.11
RAA15-H2	620, 690, 691	254	0.5 - 1	1.07	4.70	1.07	5.02
RAA15-I2	512	99	0.5 - 1	0.5	1.83	0.50	0.91
<b>Totals:</b>	--	7,883	--	--	145.99	--	98.58
<b>Volume-Weighted Average:</b>							<b>0.68</b>

**TABLE G-1  
EXISTING CONDITIONS  
RECREATIONAL AREA R1 - 0- TO 1-FOOT DEPTH INCREMENT**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**SUMMARY: 0- TO 1-FOOT DEPTH INCREMENT**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
<b>Totals:</b>	--	7,883	--	--	291.98	--	197.17
<b>Volume-Weighted Average:</b>							<b>0.68</b>

Notes:

1. Polygon ID and area based on information shown on Figures C-1 and C-2 of the Final Work Plan Addendum.
2. Non-detectable PCBs included as one-half the detection limit in calculations and shown in bold.
3. For instances where a duplicate sample was available, the average of the samples was included in table.
4. All calculations and rounding are performed by the computer software. Therefore, certain quantities in above table are displayed as rounded numbers for table clarity.

**TABLE G-2  
EXISTING CONDITIONS  
RECREATIONAL AREA R1 - 1- TO X-FOOT (X = 15 FEET) DEPTH INCREMENT**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

1- TO 2-FOOT DEPTH INCREMENT

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA15-E1	157	2,117	1 - 2	0.019	78.41	0.02	1.49
RAA15-E2	158A	30	1 - 2	2	1.11	2.00	2.21
RAA15-F1	160	1,701	1 - 2	0.24	63.01	0.24	15.12
RAA15-F2	161A	612	1 - 2	54	22.66	54.00	1,223.84
RAA15-G2	163	2,331	1 - 2	5.2	86.32	5.20	448.86
RAA15-H2	165	1,082	1 - 2	1.75	40.06	1.75	70.10
RAA15-J2	166	11	1 - 2	0.276	0.41	0.28	0.11
<b>Totals:</b>	--	7,883	--	--	291.98	--	1,761.73
<b>Volume-Weighted Average:</b>							<b>6.03</b>

2- TO 3-FOOT DEPTH INCREMENT

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA15-E1	157	2,117	2 - 3	0.019	78.41	0.02	1.49
RAA15-E2	158B	30	2 - 3	2	1.11	2.00	2.21
RAA15-F1	160	1,701	2 - 3	0.24	63.01	0.24	15.12
RAA15-F2	161A	612	2 - 3	54	22.66	54.00	1,223.84
RAA15-G2	163	2,331	2 - 3	5.2	86.32	5.20	448.86
RAA15-H2	165	1,082	2 - 3	1.75	40.06	1.75	70.10
RAA15-J2	166	11	2 - 3	0.276	0.41	0.28	0.11
<b>Totals:</b>	--	7,883	--	--	291.98	--	1,761.73
<b>Volume-Weighted Average:</b>							<b>6.03</b>

3- TO 4-FOOT DEPTH INCREMENT

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA15-E1	157	2,117	3 - 4	0.02	78.41	0.02	1.57
RAA15-E2	158A	30	3 - 4	0.0185	1.11	0.02	0.02
RAA15-F1	160	1,701	3 - 4	0.021	63.01	0.02	1.32
RAA15-F2	161A	612	3 - 4	0.262	22.66	0.26	5.94
RAA15-G2	163	2,331	3 - 4	6.9	86.32	6.90	595.60
RAA15-H2	165	1,082	3 - 4	6	40.06	6.00	240.34
RAA15-J2	166	11	3 - 4	0.016	0.41	0.02	0.01
<b>Totals:</b>	--	7,883	--	--	291.98	--	844.79
<b>Volume-Weighted Average:</b>							<b>2.89</b>

4- TO 5-FOOT DEPTH INCREMENT

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA15-E1	168	1,829	4 - 5	0.02	67.76	0.02	1.36
RAA15-E2	169A	24	4 - 5	0.0185	0.90	0.02	0.02
RAA15-F1	171	1,700	4 - 5	0.021	62.97	0.02	1.32
RAA15-F2	172	582	4 - 5	0.262	21.57	0.26	5.65
RAA15-G2	174	2,217	4 - 5	6.9	82.10	6.90	566.47
RAA15-H2	175	1,080	4 - 5	6	39.99	6.00	239.93
RAA15-J2	176	11	4 - 5	0.016	0.41	0.02	0.01
FP-2	164A	116	4 - 5	0.025	4.29	0.03	0.11
FP-3	165A	37	4 - 5	0.38	1.36	0.38	0.52
FP-4	166	287	4 - 5	0.025	10.64	0.03	0.27
<b>Totals:</b>	--	7,883	--	--	291.98	--	815.64
<b>Volume-Weighted Average:</b>							<b>2.79</b>

**TABLE G-2  
EXISTING CONDITIONS  
RECREATIONAL AREA R1 - 1- TO X-FOOT (X = 15 FEET) DEPTH INCREMENT**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**5- TO 6-FOOT DEPTH INCREMENT**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA15-E1	157	1,829	5 - 6	0.02	67.76	0.02	1.36
RAA15-E2	158A	24	5 - 6	0.0185	0.90	0.02	0.02
RAA15-F1	160	1,700	5 - 6	0.021	62.97	0.02	1.32
RAA15-F2	161	582	5 - 6	0.262	21.57	0.26	5.65
RAA15-G2	163	2,217	5 - 6	6.9	82.10	6.90	566.47
RAA15-H2	164	1,080	5 - 6	6	39.99	6.00	239.93
RAA15-J2	165	11	5 - 6	0.016	0.41	0.02	0.01
FP-2	153A	116	5 - 6	0.025	4.29	0.03	0.11
FP-3	154A	37	5 - 6	0.38	1.36	0.38	0.52
FP-4	155	287	5 - 6	0.025	10.64	0.03	0.27
<b>Totals:</b>	--	7,883	--	--	291.98	--	815.64
<b>Volume-Weighted Average:</b>							<b>2.79</b>

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

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA15-E1/BH000937	157	1,829	6 - 7	0.01075	67.76	0.01	0.73
RAA15-E2	158A	24	6 - 7	0.018	0.90	0.02	0.02
RAA15-F1	160	1,700	6 - 7	0.0195	62.97	0.02	1.23
RAA15-F2	161A	582	6 - 7	0.0185	21.57	0.02	0.40
RAA15-G2	163	2,217	6 - 7	3.4	82.10	3.40	279.13
RAA15-H2	164	1,080	6 - 7	0.244	39.99	0.24	9.76
RAA15-J2	165	11	6 - 7	0.016	0.41	0.02	0.01
FP-2	153A	116	6 - 7	0.025	4.29	0.03	0.11
FP-3	154A	37	6 - 7	0.38	1.36	0.38	0.52
FP-4	155A	287	6 - 7	0.025	10.64	0.03	0.27
<b>Totals:</b>	--	7,883	--	--	291.98	--	292.15
<b>Volume-Weighted Average:</b>							<b>1.00</b>

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

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA15-E1/BH000937	155	1,829	7 - 8	0.01075	67.76	0.01	0.73
RAA15-E2	156A	24	7 - 8	0.018	0.90	0.02	0.02
RAA15-F1	158	1,700	7 - 8	0.0195	62.97	0.02	1.23
RAA15-F2	159A	582	7 - 8	0.0185	21.57	0.02	0.40
RAA15-G2	161	2,217	7 - 8	3.4	82.10	3.40	279.13
RAA15-H2	162	1,080	7 - 8	0.244	39.99	0.24	9.76
RAA15-J2	163	11	7 - 8	0.016	0.41	0.02	0.01
FP-2	151A	116	7 - 8	0.025	4.29	0.03	0.11
FP-3	152A	37	7 - 8	0.38	1.36	0.38	0.52
FP-4	153A	287	7 - 8	0.025	10.64	0.03	0.27
<b>Totals:</b>	--	7,883	--	--	291.98	--	292.15
<b>Volume-Weighted Average:</b>							<b>1.00</b>

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

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA15-E1/BH000937	141	2,117	8 - 9	0.01075	78.41	0.01	0.84
RAA15-E2	142A	30	8 - 9	0.018	1.11	0.02	0.02
RAA15-F1	144	1,701	8 - 9	0.0195	63.02	0.02	1.23
RAA15-F2	145A	612	8 - 9	0.0185	22.66	0.02	0.42
RAA15-G2	147	2,331	8 - 9	3.4	86.32	3.40	293.48
RAA15-H2	148	1,082	8 - 9	0.244	40.06	0.24	9.77
RAA15-J2	149	11	8 - 9	0.016	0.41	0.02	0.01
<b>Totals:</b>	--	7,883	--	--	291.98	--	305.78
<b>Volume-Weighted Average:</b>							<b>1.05</b>



**TABLE G-2  
EXISTING CONDITIONS  
RECREATIONAL AREA R1 - 1- TO X-FOOT (X = 15 FEET) DEPTH INCREMENT**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

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

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA15-E1/BH000937	138	2,117	9 - 10	0.01075	78.41	0.01	0.84
RAA15-E2	139A	30	9 - 10	<b>0.018</b>	1.11	0.02	0.02
RAA15-F1	141	1,701	9 - 10	<b>0.0195</b>	63.02	0.02	1.23
RAA15-F2	142A	612	9 - 10	<b>0.0185</b>	22.66	0.02	0.42
RAA15-G2	144	2,331	9 - 10	3.4	86.32	3.40	293.48
RAA15-H2	145	1,082	9 - 10	0.244	40.06	0.24	9.77
RAA15-J2	146	11	9 - 10	0.016	0.41	0.02	0.01
<b>Totals:</b>	--	7,883	--	--	291.98	--	305.78
<b>Volume-Weighted Average:</b>							<b>1.05</b>

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

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA15-E1	136	2,117	10 - 11	<b>0.02</b>	78.41	0.02	1.57
RAA15-E2	137A	30	10 - 11	<b>0.019</b>	1.11	0.02	0.02
RAA15-F1	139	1,701	10 - 11	<b>0.0195</b>	63.02	0.02	1.23
RAA15-F2	140A	612	10 - 11	<b>0.022</b>	22.66	0.02	0.50
RAA15-G2	142	2,331	10 - 11	<b>0.0235</b>	86.32	0.02	2.03
RAA15-H2	143	1,082	10 - 11	<b>0.0265</b>	40.06	0.03	1.06
RAA15-J2	144	11	10 - 11	<b>0.0195</b>	0.41	0.02	0.01
<b>Totals:</b>	--	7,883	--	--	291.98	--	6.41
<b>Volume-Weighted Average:</b>							<b>0.02</b>

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

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA15-E1	134	2,117	11 - 12	<b>0.02</b>	78.41	0.02	1.57
RAA15-E2	135A	30	11 - 12	<b>0.019</b>	1.11	0.02	0.02
RAA15-F1	137	1,701	11 - 12	<b>0.0195</b>	63.02	0.02	1.23
RAA15-F2	138A	612	11 - 12	<b>0.022</b>	22.66	0.02	0.50
RAA15-G2	140	2,331	11 - 12	<b>0.0235</b>	86.32	0.02	2.03
RAA15-H2	141	1,082	11 - 12	<b>0.0265</b>	40.06	0.03	1.06
RAA15-J2	142	11	11 - 12	<b>0.0195</b>	0.41	0.02	0.01
<b>Totals:</b>	--	7,883	--	--	291.98	--	6.41
<b>Volume-Weighted Average:</b>							<b>0.02</b>

**12- TO 15-FOOT DEPTH INCREMENT**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
RAA15-E1	132	2,117	12 - 15	<b>0.02</b>	235.24	0.02	4.70
RAA15-E2	133A	30	12 - 15	<b>0.019</b>	3.32	0.02	0.06
RAA15-F1	135	1,701	12 - 15	<b>0.0195</b>	189.05	0.02	3.69
RAA15-F2	136A	612	12 - 15	<b>0.022</b>	67.99	0.02	1.50
RAA15-G2	138	2,331	12 - 15	<b>0.0235</b>	258.96	0.02	6.09
RAA15-H2	139	1,082	12 - 15	<b>0.0265</b>	120.17	0.03	3.18
RAA15-J2	140	11	12 - 15	<b>0.0195</b>	1.23	0.02	0.02
<b>Totals:</b>	--	7,883	--	--	875.94	--	19.24
<b>Volume-Weighted Average:</b>							<b>0.02</b>

**TABLE G-2  
EXISTING CONDITIONS  
RECREATIONAL AREA R1 - 1- TO X-FOOT (X = 15 FEET) DEPTH INCREMENT**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

**SUMMARY: 1- TO X-FOOT (X = 15 FEET) DEPTH INCREMENT**

Sample ID(s)	Polygon ID	Polygon Area (sq. ft.)	Sample Depth (ft.)	PCB Conc. (ppm)	Volume (cumulative) (cy)	Average PCB Concentration Per Foot	Average PCB Conc. TIMES Total Volume
<b>Totals:</b>	--	7,883	--	--	4,087.73	--	7,227.47
<b>Volume-Weighted Average:</b>							<b>1.77</b>

Notes:

1. Polygon ID and area based on information shown on Figures C-5 through C-14 of the Final Work Plan Addendum.
2. Non-detectable PCBs included as one-half the detection limit in calculations and shown in bold.
3. For instances where a duplicate sample was available, the average of the samples was included in table.
4. All calculations and rounding are performed by the computer software. Therefore, certain quantities in above table are displayed as rounded numbers for table clarity.

**TABLE G-3  
COMPARISON OF DETECTED APPENDIX IX+3 CONSTITUENTS TO RESIDENTIAL SCREENING PRGs  
RECREATIONAL AREA R1**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results in ppm, dry weight)**

Analytical Parameter	Maximum Detect	USEPA Region 9 Residential PRGs (See Note 3)	Constituent Retained for Further Evaluation? (See Note 4)
<b>Volatile Organics</b>			
Acetone	0.007	1,400	No
<b>Semivolatile Organics</b>			
1,2,4,5-Tetrachlorobenzene	0.11	16	No
2-Methylnaphthalene	0.076	55*	No
Acenaphthene	0.11	2,600	No
Acenaphthylene	0.43	55*	No
Anthracene	0.53	14,000	No
Benzo(a)anthracene	1.5	0.56	Yes
Benzo(a)pyrene	1.3	0.056	Yes
Benzo(b)fluoranthene	1.2	0.56	Yes
Benzo(g,h,i)perylene	0.97	55*	No
Benzo(k)fluoranthene	1.1	5.6	No
Chrysene	1.5	56	No
Dibenzo(a,h)anthracene	0.33	0.056	Yes
Dibenzofuran	0.082	210	No
Fluoranthene	3.1	2,000	No
Fluorene	0.14	1,800	No
Indeno(1,2,3-cd)pyrene	1.1	0.56	Yes
Naphthalene	0.11	55	No
Phenanthrene	2.1	55*	No
Pyrene	2.8	1,500	No
<b>Inorganics</b>			
Antimony	0.56	30	No
Arsenic	6.6	0.38	Yes
Barium	48.9	5,200	No
Beryllium	0.55	150	No
Cadmium	0.21	37	No
Chromium	10	210	No
Cobalt	10.6	3,300	No
Copper	61.2	2,800	No
Cyanide	0.25	11*	No
Lead	94.2	400	No
Mercury	1.3	22	No
Nickel	17.6	1,500	No
Selenium	0.97	370	No
Thallium	0.64	6	No
Vanadium	13.6	520	No
Zinc	124	22,000	No

**Notes:**

1. PRG = Preliminary Remediation Goal.
2. Per Attachment F to *Statement of Work for Removal Actions Outside the River* (SOW), comparison to PRGs is required for all detected Appendix IX+3 constituents except PCBs, dioxins and furans.
3. The PRGs listed in this column consist of EPA Region 9 Residential soil PRGs for the constituents listed (as set forth in Exhibit F-1 to Attachment F to the SOW) or, for certain constituents, surrogate PRGs as described in Section 3.3.3 of the Conceptual Work Plan.
4. Constituent is retained for further evaluation if its maximum detected concentration exceeds its corresponding PRG.
5. \* = Indicates a surrogate PRG as described in Section 3.3.3 of the Conceptual Work Plan.

**TABLE G-4  
EXISTING CONDITIONS - COMPARISON TO METHOD 1 SOIL STANDARDS  
RECREATIONAL AREA R1 (0- TO 1-FOOT DEPTH INCREMENT)**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results in ppm, dry weight)**

Sample ID: Sample Depth (Feet): Parameter Date Collected:	OX-J-SS2 0-0.3 09/16/94	OX-J-SS3 0-0.3 09/16/94	RAA15-E1 0-1 03/10/03	RAA15-H2 0-1 03/05/03
<b>Semivolatile Organics</b>				
Benzo(a)anthracene	--	--	0.10	1.00
Benzo(a)pyrene	--	--	0.12	1.30
Benzo(b)fluoranthene	--	--	0.12	1.20
Dibenzo(a,h)anthracene	--	--	<b>0.36</b>	0.15
Indeno(1,2,3-cd)pyrene	--	--	<b>0.36</b>	0.41
<b>Dioxins/Furans</b>				
Total TEQs (WHO TEFs)	2.10E-05	2.10E-05	1.50E-06	1.00E-05
<b>Inorganics</b>				
Arsenic	--	--	2.90	4.30
Sample ID: Sample Depth (Feet): Parameter Date Collected:	Maximum Sample Result	Arithmetic Average Concentration (See Note 3)	MCP Method 1 S-1 GW-2/GW-3 Soil Standard (See Note 4)	Constituent Exceeds Initial Comparison Criteria? (See Note 5)
<b>Semivolatile Organics</b>				
Benzo(a)anthracene	N/A (See Note 5)	0.55	7	No
Benzo(a)pyrene	N/A (See Note 5)	0.71	2	No
Benzo(b)fluoranthene	N/A (See Note 5)	0.66	7	No
Dibenzo(a,h)anthracene	N/A (See Note 5)	0.26	0.7	No
Indeno(1,2,3-cd)pyrene	N/A (See Note 5)	0.39	7	No
<b>Dioxins/Furans</b>				
Total TEQs (WHO TEFs)	2.10E-05	N/A (See Note 5)	1.00E-03	No
<b>Inorganics</b>				
Arsenic	N/A (See Note 5)	3.60	20	No

**Notes:**

- Total 2,3,7,8-TCDD toxicity equivalency quotients (TEQs) were calculated using World Health Organization (WHO) Toxicity Equivalency Factors (TEFs) for all PCDD/PCDF compounds. Where individual compounds were not detected, a value of one-half the analytical detection limit was used to calculate the TEQ concentrations.
- With the exception of Total TEQs, constituents evaluated above have a maximum sample result that exceeds their respective EPA Region 9 Residential PRGs or surrogate PRGs.
- Non-detect sample results included as one-half the detection limit in the calculation of arithmetic average concentrations and presented in bold.
- The Method 1 S-1 soil standards listed are those associated with GW-2/GW-3 groundwater (whichever is more stringent), except for Dioxin/Furan Total TEQs. Total TEQs are compared to the EPA PRGs for such TEQs set out in Attachment F of the *Statement of Work for Removal Actions Outside the River* (SOW) or other TEQ comparison criteria utilized during previous evaluations.
- Arithmetic average concentrations of all constituents, except Total TEQs, are compared to Method 1 Soil Standards. For TEQs, the maximum concentration is compared to the appropriate EPA PRG (or other comparison criterion).
- = Constituent not subject to analysis.

**TABLE G-5  
EXISTING CONDITIONS - COMPARISON TO METHOD 1 SOIL STANDARDS  
RECREATIONAL AREA R1 (1- TO X-FOOT [X = 15 FEET] DEPTH INCREMENT)**

**FINAL COMPLETION REPORT FOR FORMER OXBOW AREAS J AND K REMOVAL ACTION  
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS  
(Results in ppm, dry weight)**

Parameter	Sample ID: Sample Depth (Feet): Date Collected:	RAA15-E1 3-6 03/10/03	RAA15-G2 3-6 03/07/03	BH000937 6-10 03/10/03	Maximum Sample Result
<b>Semivolatile Organics</b>					
Benzo(a)anthracene		0.21	1.50	<b>0.19</b>	N/A (See Note 5)
Benzo(a)pyrene		0.16	1.30	<b>0.19</b>	N/A (See Note 5)
Benzo(b)fluoranthene		0.13	1.20	<b>0.19</b>	N/A (See Note 5)
Dibenzo(a,h)anthracene		<b>0.20</b>	0.33	<b>0.19</b>	N/A (See Note 5)
Indeno(1,2,3-cd)pyrene		0.057	1.10	<b>0.19</b>	N/A (See Note 5)
<b>Dioxins/Furans</b>					
Total TEQs (WHO TEFs)		3.10E-07	5.10E-05	--	5.10E-05
<b>Inorganics</b>					
Arsenic		4.50	6.60	4.40	N/A (See Note 5)

Parameter	Sample ID: Sample Depth (Feet): Date Collected:	Arithmetic Average Concentration (See Note 3)	MCP Method 1 S-1 GW-2/GW-3 Soil Standard (See Note 4)	Constituent Exceeds Initial Comparison Criteria? (See Note 5)
<b>Semivolatile Organics</b>				
Benzo(a)anthracene		0.63	7	No
Benzo(a)pyrene		0.55	2	No
Benzo(b)fluoranthene		0.51	7	No
Dibenzo(a,h)anthracene		0.24	0.7	No
Indeno(1,2,3-cd)pyrene		0.45	7	No
<b>Dioxins/Furans</b>				
Total TEQs (WHO TEFs)		N/A (See Note 5)	1.00E-03	No
<b>Inorganics</b>				
Arsenic		5.17	20	No

**Notes:**

- Total 2,3,7,8-TCDD toxicity equivalency quotients (TEQs) were calculated using World Health Organization (WHO) Toxicity Equivalency Factors (TEFs) for all PCDD/PCDF compounds. Where individual compounds were not detected, a value of one-half the analytical detection limit was used to calculate the TEQ concentrations.
- With the exception of Total TEQs, constituents evaluated above have a maximum sample result that exceeds their respective EPA Region 9 Residential PRGs or surrogate PRGs.
- Non-detect sample results included as one-half the detection limit in the calculation of arithmetic average concentrations and presented in bold.
- The Method 1 S-1 soil standards listed are those associated with GW-2/GW-3 groundwater (whichever is more stringent), except for Dioxin/Furan Total TEQs. Total TEQs are compared to the EPA PRGs for such TEQs set out in Attachment F of the *Statement of Work for Removal Actions Outside the River (SOW)* or other TEQ comparison criteria utilized during previous evaluations.
- Arithmetic average concentrations of all constituents, except Total TEQs, are compared to Method 1 Soil Standards. For TEQs, the maximum concentration is compared to the appropriate EPA PRG (or other comparison criterion).
- = Constituent not subject to analysis.

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**Appendix H**

Conditional Solution Notice Letters  
to Property Owners and  
Encumbrance Holders

ARCADIS

Conditional Solution Notice Letter  
to Property Owner General  
Equities, Inc. dated June 21, 2007



GE  
159 Plastics Avenue  
Pittsfield, MA 01201  
USA

June 21, 2007

General Equities, Inc.  
318 Main Street  
P.O. Box 7318  
Kensington, CT 06037

Attention: Mr. John Masserio, Executive Vice President

**Re: Your Property at 1330 East Street, Pittsfield, MA - Tax Parcel Number K10-11-1**

Dear Mr. Masserio:

On behalf of the General Electric Company (GE), I am providing this letter to you as a follow-up to the soil cleanup activities that GE performed on your above-referenced property in Pittsfield in 2006. As you may recall, those cleanup activities, as well as the preceding soil sampling activities, were performed by GE under its Consent Decree with the U.S. Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MassDEP), and other governmental bodies. The Consent Decree requires that, following cleanup at non-residential properties like yours, which are subject to what the Consent Decree calls a "Conditional Solution," GE must provide you with a letter explaining your rights under the Conditional Solution, as well as describing the remaining levels of chemicals in soil at your property.

GE conducted extensive sampling of the soil at your property to determine whether it contained concentrations of polychlorinated biphenyls (PCBs) and other chemicals that would require cleanup under the standards in the Consent Decree. During this process, GE submitted to EPA a number of work plans and reports relating to that sampling and GE's evaluations of the sampling results, and it provided copies to you. All of these submittals were approved by EPA.

In addition, GE sent you a letter dated April 22, 2003, explaining the options that the Consent Decree provides for the owners of non-residential properties like yours. To review briefly, the Consent Decree provides that, for such properties, the owner has two options relating to the cleanup and future use of the property (assuming that the property does not meet the Consent Decree standards for residential properties). One of those options would involve the owner's execution of a legal deed restriction on the property, known as a "Grant of Environmental Restriction and Easement" (or "ERE" for short), which would allow continuation of the current non-residential uses of the property, but would place restrictions on future changes to different types of use (e.g., residential use) and on future excavations. Alternatively, if the owner elects



not to execute an ERE for the property, GE would implement what is called a Conditional Solution. Under a Conditional Solution, GE would clean up the property to standards protective of its current uses and would agree to conduct additional cleanup (if necessary) in the future if the owner meets certain conditions demonstrating a commitment to implement a future use for which additional cleanup is necessary.

Our letter to you of April 22, 2003 explained these options in more detail. Following further communications between you and GE, GE wrote you again on December 15, 2003 reiterating its request for a decision on whether you wanted to execute an ERE on your property. That letter further advised you that if GE did not hear from you by January 13, 2004, GE would assume, and would advise EPA, that a Conditional Solution would be implemented at your property. GE did not receive a decision from you by that date and therefore notified EPA by letter of January 28, 2004 (with a copy to you) that GE would implement a Conditional Solution at your property.

GE then submitted work plans to EPA describing the evaluations and proposed cleanup work at your property. These included a *Conceptual Removal Design/Removal Action Work Plan for Former Oxbow Areas J and K* (Conceptual Work Plan), submitted in March 2005; a *Final Removal Design/Removal Action Work Plan for Former Oxbow Areas J and K* (Final Work Plan), submitted in September 2005; and an Addendum to Final Work Plan (Final Work Plan Addendum), submitted in April 2006. Copies of these documents were sent to you. As indicated in those work plans, your property was divided into two areas for evaluation purposes: (1) the main area of your property, which includes the paved area of the property, as well as the portion of the Zeno Street right-of-way adjacent to the property, and is considered to be in commercial use; and (2) an undeveloped area on the eastern side of the property, which is considered to be in recreational use and which, for evaluation purposes, was combined with the adjacent recreational portion of the adjoining Parcel K10-11-2 (jointly referred to as Recreational Area R2). These two areas of your property are shown on the attached Figure 1, along with GE's groundwater monitoring well on the Zeno Street right-of-way. The work plans provided for the implementation of a Conditional Solution at each of these areas, and they were subsequently approved by EPA.

GE's work plans included a detailed evaluation of each of these areas. The evaluation of the commercial portion of your property, presented in the Conceptual Work Plan, showed that the concentrations of PCBs in soil at that area already met the applicable cleanup standards in the Consent Decree for PCBs at commercial properties and that thus soil cleanup was not necessary in that area for PCBs. It also showed, however, that some cleanup was required at that area to address certain other chemicals in the soil; and hence it proposed such cleanup and showed that, after performance of the cleanup, the concentrations of the other chemicals would meet the applicable cleanup standards in the Consent Decree for commercial areas. For Recreational Area R2, GE's final evaluation, presented in the Addendum to Final Work Plan, showed that cleanup was necessary to address both PCBs and other chemicals. Hence, GE proposed such cleanup and showed that, after performance of those cleanup actions, the concentrations of PCBs and other chemicals in soil would meet the applicable cleanup standards in the Consent Decree for recreational areas.

For your convenience, we note that the applicable soil cleanup standards include the following:

- For PCBs at commercial areas, average concentrations of 25 parts per million (ppm) for the top foot (with no individual PCB concentration above 125 ppm in unpaved areas), 25 ppm for the top three feet, 200 ppm for the 1- to 6-foot depth interval, and 100 ppm for the 0- to 15-foot depth interval;
- For PCBs at recreational areas, average PCB concentrations of 10 ppm for the top foot of soil (with no individual PCB concentration above 50 ppm in unpaved areas), 10 ppm for the top three feet of soil, and 100 ppm for the 0- to 15-foot depth interval; and
- For other chemicals in soil at both commercial and recreational areas, certain risk-based criteria set forth in the Consent Decree, as described in GE's Conceptual Work Plan.

GE performed the cleanup at your property in 2006. That cleanup included the removal and replacement of a total of approximately 25 cubic yards of soil from one area on the commercial portion of your property. Additional soil removal was also performed at Recreational Area R2, but not from the portion of that area on your property.

Now that the cleanup at your property has been completed, GE is providing this letter, as required by the Consent Decree, to explain: (1) the terms of the Conditional Solution, including the requirements applicable to GE and you regarding future cleanup activities at the property; and (2) the levels of PCBs and other chemicals remaining at your property.

1. Requirements for Implementing Future Cleanup

As noted above, following completion of the soil cleanup actions, the concentrations of PCBs and other chemicals in the soil at your property satisfy the applicable cleanup standards for such non-residential properties under the Consent Decree. As a result, no further soil-related actions are required at your property at this time. However, the evaluation and cleanup of your property would not satisfy the standards that would apply if the property were ever used for residential purposes. Accordingly, a Conditional Solution will be implemented for your property, effective immediately, to address future uses and activities at the property. Under the Consent Decree requirements for Conditional Solutions, this means the following:

If, in the future, you should decide to change the current use of your property to residential or similar use or to perform construction or excavation activities, and if that new or changed use is legally permissible, GE will conduct additional cleanup actions at your property, if necessary, to be protective for such future use, provided that certain conditions specified in the Consent Decree are met. Specifically, those conditions require that you satisfy the following criteria:

- First, you must show that you have submitted a plan to the appropriate governmental authorities to authorize the future use (if such a plan or authorization is necessary for the

use) and that such plan (if required) has been approved by the governmental authorities. Such governmental approvals may include zoning approval, Conservation Commission approval, building permits, and any other necessary approvals.

- In addition, you must provide to EPA and to GE (directly or through EPA) "other documented evidence of a commitment to such use," such as, for example, evidence of financing or other financial assurance for the project, other plans for implementing the project (such as architectural plans, contracts for performance of the project, or other similar plans), or an affidavit that you intend to go forward with the project or other change in use if the necessary cleanup actions are taken.

If you provide this required documentation and EPA determines that you have satisfied the above criteria and that cleanup is necessary to allow such use, EPA will notify GE. GE will then be required to submit work plans for any necessary additional sampling and/or cleanup actions to allow such use and, upon EPA approval, to implement those plans. Such cleanup may include soil removal or other remediation as necessary to meet the applicable cleanup standards under the Consent Decree for the new use, or may include, for activities that involve excavation or off-property disposition of soils, actions to ensure the proper excavation, management, and disposition of such soils. While GE is required to conduct such additional cleanup actions in the event that the above conditions are met, GE also retains any rights it may have under the law to seek contribution from others for costs incurred by GE to clean up contaminants not related to GE.

In the event that you sell your property, these same requirements will continue to apply, provided that the successor owner meets the criteria specified above.

In addition, you should be aware that the Consent Decree requires GE to conduct annual inspections of your property to determine whether there have been any changes in activities and uses that would be inconsistent with current uses or would involve certain soil disturbance activities. These inspections may require us to contact you further in the future.

For purposes of providing the documentation described above or if you have any question about this matter, the following are the relevant contact persons:

For GE:           Richard W. Gates  
                      Remediation Manager  
                      General Electric Company  
                      159 Plastics Avenue  
                      Pittsfield, MA 01201  
                      (413) 448-5909

For EPA: Dean Tagliaferro  
GE-Pittsfield Team Leader  
U.S. Environmental Protection Agency  
EPA New England  
One Congress Street, Suite 1100 (Mail Code: HBO)  
Boston, MA 02114  
(617) 918-1282

For MassDEP: Susan Steenstrup  
Project Coordinator, Special Projects  
Bureau of Waste Site Cleanup  
Massachusetts Department of Environmental Protection  
436 Dwight Street  
Springfield, Massachusetts 01103  
(413) 755-2264

## 2. Existing Levels of PCBs and Other Chemicals

GE is also required to notify the owner of the remaining levels of PCBs and other chemicals at a property where a Conditional Solution is implemented. For your property, the results of GE's soil sampling were described in prior reports submitted to EPA, copies of which were sent to you.

Under the Consent Decree, GE was required to evaluate the concentrations of various constituents in soil in certain specified depth intervals at the commercial portion of your property and, separately, at Recreational Area R2. For your convenience, the attached Tables 1 and 2 summarize, for those two areas respectively, the average concentrations of PCBs, as well as the other chemicals retained for evaluation after an initial screening step, that GE has calculated to remain in each of the relevant depth intervals. (These tables are based on calculations presented in the Conceptual Work Plan. Note that Table 2 covers the entire Recreational Area R2, not just the portion on your property, because GE's evaluations were conducted for that overall area.)

The attached tables also show that, for PCBs, the current concentrations in each relevant depth interval at each area are less than the applicable non-residential cleanup standards in the Consent Decree for PCBs. They further show that, for another set of constituents, known as polychlorinated dibenzo-*p*-dioxin and polychlorinated dibenzofuran toxicity equivalency quotients (PCDD/PCDF TEQs), the current concentrations are likewise below the Consent Decree applicable cleanup standards for such compounds. Finally, for the remaining chemicals that were retained for evaluation, the tables indicate that the average concentrations of those chemicals are either below the applicable numerical standards used for comparison or have been shown by a risk assessment performed by GE and approved by EPA, based on current use conditions, to pose no risk above the risk benchmarks set forth in the Consent Decree.

General Equities, Inc.

June 21, 2007

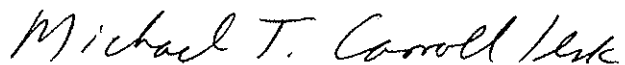
Page 6

Therefore, for all of the substances evaluated, your property currently satisfies the applicable Consent Decree standards for such non-residential properties. You and any successor owners should, however, take into account the existence of these substances on your property in conducting any activities such as excavation or digging in the future. In this connection, EPA has prepared a Fact Sheet relating to future uses and activities at this property. A copy of that Fact Sheet is also attached to this letter.

Finally, you should be aware that GE is also required to notify any entity with an interest in your property, such as the holders of easements, of the Conditional Solution implemented at the property. GE will provide these notification in the near future, with copies to you.

Please call Dick Gates at 413-448-5909 if you have any questions about the information in this letter.

Very truly yours,

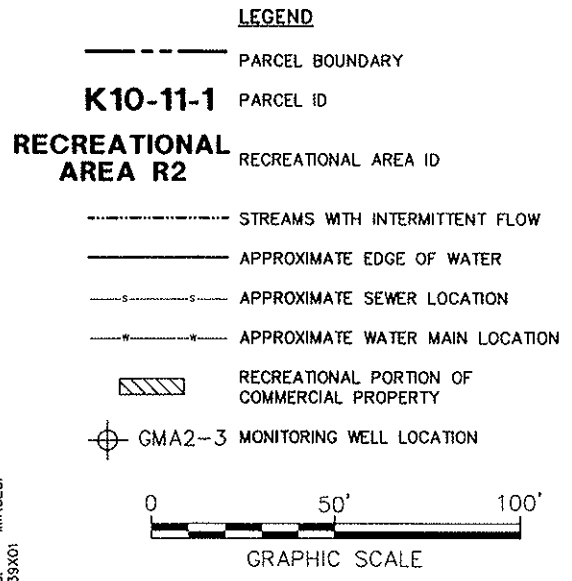
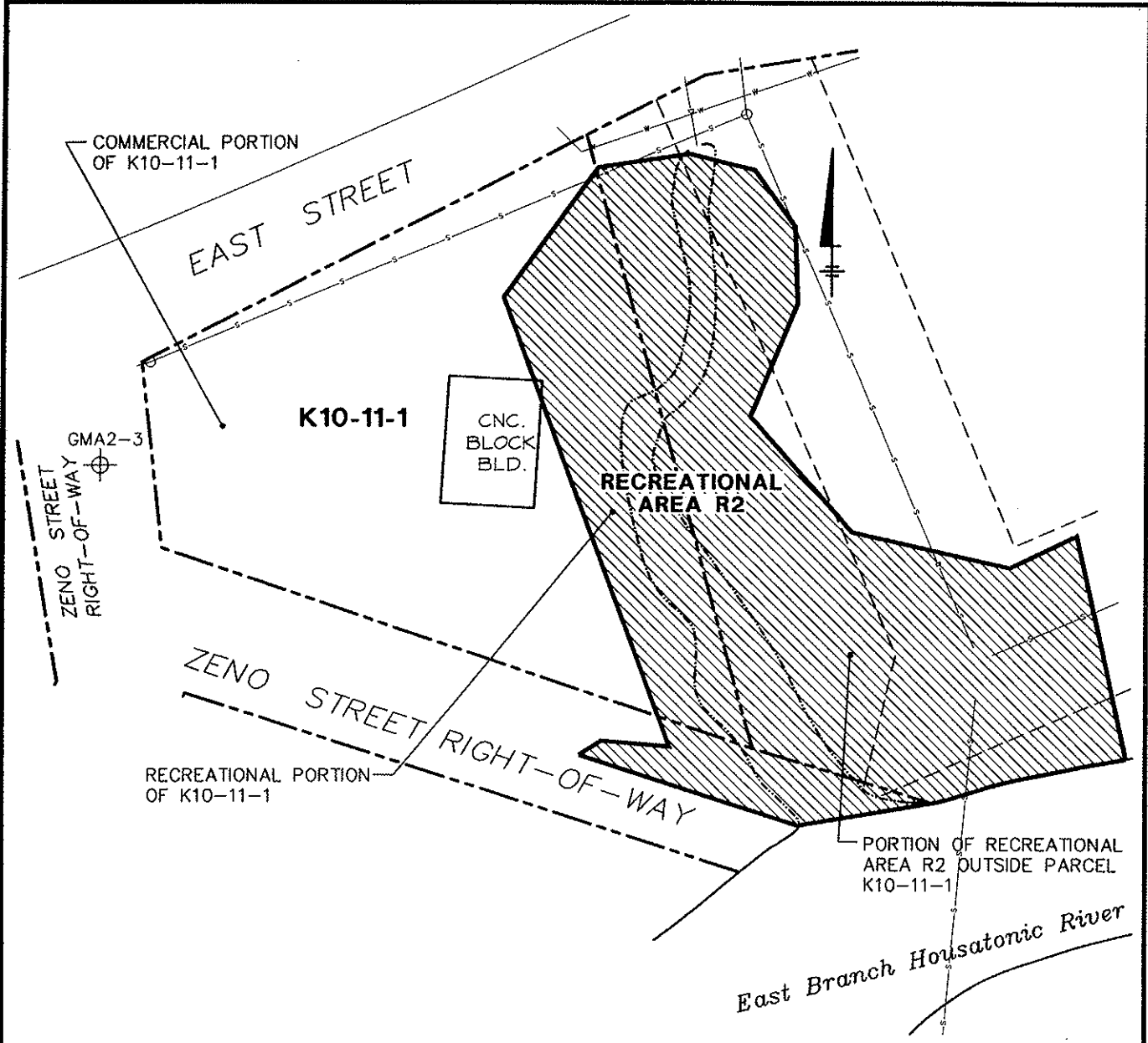


Michael T. Carroll  
Manager, Pittsfield Remediation Programs

Attachments

cc: Dean Tagliaferro, EPA  
Timothy Conway, EPA  
Holly Inglis, EPA  
Anna Symington, MassDEP  
Susan Steenstrup, MassDEP  
Jane Rothchild, MassDEP  
Richard Gates, GE  
Roderic McLaren, GE  
James Bieke, Goodwin Procter

(SYR-85-DHW) SYR-85-DHW LJP LAYER: ON=\*, OFF=\*REF\*  
 G:\CAD\GE-CAO\GE\_ACTIVE\C\20639008\ERE\2063902.DWG SAVED:5/29/2007 9:50 AM LAYOUT:1 PAGES:1 PAGESETUP:----- PENTABLE:PLT\FULL.CTB PRINTED:5/29/2007 10:07 AM BY:LPOSENAUER  
 PROJECTNAME:----- IMAGES:  
 XREFS: 20639X01



- GENERAL NOTES:**
1. BASE MAP MODIFIED FROM SURVEY DRAWINGS NOs. GE-1080-1 (6/25/04) AND GE-1080-3 (11/18/04) BY HILL ENGINEERS, ARCHITECTS AND PLANNERS, INC. AND FROM PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC. - FLOWN IN APRIL 1990.
  2. EASEMENTS AND PROPERTY LINES DIGITIZED FROM COPIES OF CITY OF PITTSFIELD TAX ASSESSORS MAPS AND ARE APPROXIMATE.
  3. UTILITY LOCATIONS ARE APPROXIMATE, AND ALL UTILITIES MAY NOT BE SHOWN.

GENERAL ELECTRIC COMPANY  
 PITTSFIELD, MASSACHUSETTS  
**FORMER OXBOW AREA J AND K**

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**FINAL CONDITIONS AT  
 PARCEL K10-11-1**

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**ARCADIS BBL**  
*infrastructure, environment, facilities*

FIGURE  
**1**

**TABLE 1**  
**RESIDUAL CONCENTRATIONS IN SOIL AT PARCEL K10-11-1 – COMMERCIAL AREA<sup>1</sup>**

Depth Interval (feet below ground)	Constituent Concentration (in parts per million - ppm) <sup>1</sup>							
	PCBs <sup>2</sup>	PCDD/PCDF TEQs <sup>3</sup>	Benzo(a)- anthracene <sup>4</sup>	Benzo(a)- pyrene <sup>4</sup>	Benzo(b)- fluoranthene <sup>4</sup>	Dibenzo(a,h)- anthracene <sup>4</sup>	Indeno(1,2,3- cd)pyrene <sup>4</sup>	Arsenic <sup>4</sup>
0- to 1-foot depth	0.6	0.000009	1.2	1.0	1.0	0.4	0.6	5.6
0- to 3-foot depth	3.7	0.0003	1.2	1.1	1.0	0.4	0.7	4.6
1- to 6-foot depth	3.2	N/A	0.9	0.8	0.7	0.2	0.5	4.9
0- to 15-foot depth	1.2	0.0003 (for 1- 15 ft depth)	1.0	1.0	0.9	0.5	0.7	4.6

Notes:

1. This table includes those chemical constituents that were retained for evaluation at this area after an initial conservative screening step. All concentrations listed are averages except for PCDD/PCDF TEQs, for which the maximum concentration is given. For PCBs, the concentrations shown are pre-cleanup concentrations, since cleanup was not required to address PCBs. For the other constituents, the concentrations shown are those calculated to be present after the soil cleanup.
2. For comparison, the cleanup standards in the Consent Decree for PCBs at commercial properties are 25 ppm for the 0-1 foot and 0-3 foot depths, 200 ppm for the 1-6 foot depth, and 100 ppm for the 0-15 foot depth.
3. For comparison, the cleanup standards under the Consent Decree for PCDD/PCDF TEQs at commercial properties are 0.005 ppm for the 0-1 foot and 0-3 foot depths and 0.02 ppm for the 1-15 foot depth (there are no separate standards for the 1-6 foot or 0-15 foot depth intervals).
4. For substances other than PCBs and PCDD/PCDF TEQs, the Consent Decree allows an area-specific risk assessment to be performed. The area-specific risk assessment performed for these constituents in soils at the commercial area of Parcel K10-11-1, as presented in GE's Conceptual Work Plan and approved by EPA, shows that these constituents do not pose risks above the risk benchmarks set forth in the Consent Decree.

**TABLE 2**  
**RESIDUAL CONCENTRATIONS IN SOIL AT RECREATIONAL AREA R2<sup>1</sup>**

Depth Interval (feet below ground)	Constituent Concentration (in parts per million - ppm) <sup>1</sup>				
	PCBs <sup>2</sup>	PCDD/PCDF TEQs <sup>3</sup>	Benzo(a)anthracene <sup>4</sup>	Benzo(a)pyrene <sup>4</sup>	Benzo(b)fluoranthene <sup>4</sup>
0- to 1-foot depth	3.0	0.0002	1.9	1.0	0.9
0- to 3-foot depth	7.8	0.0004	1.4	0.8	0.8
0- to 15-foot depth	3.2	0.00007 (for 3-15 ft depth)	1.4	0.9	0.9

Depth Interval (feet below ground)	Benzo(k)-fluoranthene <sup>4</sup>	Chrysene <sup>4</sup>	Dibenzo(a,h)-anthracene <sup>4</sup>	Indeno(1,2,3-cd)pyrene <sup>4</sup>	Phenanthrene <sup>4</sup>	Arsenic <sup>4</sup>
0- to 1-foot depth	1.2	2.0	0.3	0.6	3.3	5.1
0- to 3-foot depth	1.0	1.5	0.3	0.5	2.5	5.4
0- to 15-foot depth	1.0	1.5	0.3	0.5	2.2	5.4

Notes:

1. This table relates to Recreational R2 as depicted on Figure 1. It includes those chemical constituents that were retained for evaluation at this area after an initial conservative screening step. All concentrations listed are averages except for PCDD/PCDF TEQs, for which the maximum concentration is given. For all constituents, the concentrations shown are those calculated to be present after the soil cleanup.
2. For comparison, the cleanup standards in the Consent Decree for PCBs at recreational areas with Conditional Solutions are 10 ppm for the 0-1 foot and 0-3 foot depths and 100 ppm for the 0-15 foot depth.
3. For comparison, the cleanup standards under the Consent Decree for PCDD/PCDF TEQs at recreational areas with Conditional Solutions are 0.001 ppm for the 0-1 foot and 0-3 foot depths and 0.02 ppm for the 3-15 foot depth (there is no separate standard for the 0-15 foot depth interval).
4. For these substances, the cleanup standards used for this area were the "Method 1" soil standards adopted by the MassDEP, including the "S-1" soil standards for the 0-1 and 0-3 foot depths and the "S-2" soil standards for the 0-15 foot depth. These standards are listed at 310 CMR 40.0975 (Tables 2 and 3). The above-listed concentrations are all well below those standards.



## FACT SHEET RELATING TO FUTURE PROPERTY USES AND ACTIVITIES

Prepared by the United States Environmental Protection Agency

Mr. Masserio:

This Fact Sheet is an attachment to a letter that General Electric Company ("GE") is sending you as a follow-up to the soil cleanup activities that GE performed on your property. The federal Environmental Protection Agency ("EPA") has prepared this Fact Sheet to inform you and successor owners of future uses and activities that you should not conduct on your property due to the levels of remaining contamination.

As GE has described in its letter, for all of the substances evaluated, your property currently satisfies the Consent Decree standards for properties in commercial or recreational use. Because the evaluation and cleanup of your property currently does not allow for unlimited uses, however, you and any successor owners should observe the following regarding your property:

- The property should not be used for residential uses.

- Except for emergency excavations, you should not excavate or dig below three feet of the surface of the ground. You may perform limited excavation and work in the top three feet of the surface of the ground. Please contact EPA and the Massachusetts Department of Environmental Protection ("MassDEP") before excavating or moving any amount of soil below three feet and/or before excavating or moving more than ten (10) cubic yards of soil in the top three feet of the surface of the ground. Ten (10) cubic yards is approximately one-half of a standard dump truck of soil. Also, please contact EPA and MassDEP after any emergency excavations.

- A groundwater monitoring well is located near your property. This well, which is shown on the Figure 1 attached to GE's letter, should not be disturbed in any manner, such as through digging or excavation work.

- Please contact GE, EPA, and the MassDEP before disposing of any soil off of the property. Governmental regulations may restrict the off-site disposal of soil from your property.

- Please contact GE before any subsurface utility excavations for any new or existing utilities. Under the Consent Decree, GE is required to ensure that the spatial average PCB concentration of any utility backfill material is at or below 25 parts per million of PCBs.

As required by the Consent Decree, if, in the future, you decide to change the current use of your property to residential use or to expand your business or to perform construction or excavation activities, and if that new or changed use is legally permissible, GE will conduct additional cleanup actions at your property, if necessary, to be protective of such future use, provided that

certain conditions specified in the Consent Decree are met. Please refer to the letter from GE for more information.

If you have any questions about this Fact Sheet, please call Dean Tagliaferro, of EPA, at 413-236-0969, or Susan Steenstrup, Special Projects Coordinator, MassDEP, at 413-784-1100.

ARCADIS

Conditional Solution Notice Letter  
to Trustee Pamela Rice of the  
Charles C. Rice, Sr., Revocable  
Trust of 1992 dated June 21, 2007



GE  
159 Plastics Avenue  
Pittsfield, MA 01201  
USA

June 21, 2007

Charles C. Rice, Sr., Revocable Trust of 1992  
Pamela Rice, Trustee  
429 Washington Mountain Road  
Dalton, MA 01226

**Re: Property at 1350 East Street, Pittsfield, MA - Tax Parcel Number K10-11-2**

Dear Ms. Rice:

On behalf of the General Electric Company (GE), I am providing this letter to you as a follow-up to the soil cleanup activities that GE performed on the above-referenced property (referred to herein as "Trust property") in Pittsfield in 2006. As you may recall, those cleanup activities, as well as the preceding soil sampling activities, were performed by GE under its Consent Decree with the U.S. Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MassDEP), and other governmental bodies. The Consent Decree requires that, following cleanup at non-residential properties like the Trust property, which are subject to what the Consent Decree calls a "Conditional Solution," GE must provide the owner with a letter explaining its rights under the Conditional Solution, as well as describing the remaining levels of chemicals in soil at the property.

GE conducted extensive sampling of the soil at the Trust property to determine whether it contained concentrations of polychlorinated biphenyls (PCBs) and other chemicals that would require cleanup under the standards in the Consent Decree. During this process, GE submitted to EPA a number of work plans and reports relating to that sampling and GE's evaluations of the sampling results, and it provided copies to you. All of these submittals were approved by EPA.

In addition, GE sent you a letter dated April 22, 2003, explaining the options that the Consent Decree provides for the owners of non-residential properties like the Trust property. To review briefly, the Consent Decree provides that, for such properties, the owner has two options relating to the cleanup and future use of the property (assuming that the property does not meet the Consent Decree standards for residential properties). One of those options would involve the owner's execution of a legal deed restriction on the property, known as a "Grant of Environmental Restriction and Easement" (or "ERE" for short), which would allow continuation of the current non-residential uses of the property, but would place restrictions on future changes to different types of use (e.g., residential use) and on future excavations. Alternatively, if the owner elects not to execute an ERE for the property, GE would implement what is called a Conditional Solution. Under a Conditional Solution, GE would clean up the

property to standards protective of its current uses and would agree to conduct additional cleanup (if necessary) in the future if the owner meets certain conditions demonstrating a commitment to implement a future use for which additional cleanup is necessary.

Our letter to you of April 22, 2003 explained these options in more detail. Following further communications between your attorney and GE, GE wrote you again on December 15, 2003 reiterating its request for a decision on whether you wanted to execute an ERE on the Trust property. That letter further advised you that if GE did not hear from you by January 13, 2004, GE would assume, and would advise EPA, that a Conditional Solution would be implemented at the Trust property. GE did not receive a decision from you by that date and therefore notified EPA by letter of January 28, 2004 (with a copy to you) that GE would implement a Conditional Solution at the Trust property.

GE then submitted work plans to EPA describing the evaluations and proposed cleanup work at the Trust property. These included a *Conceptual Removal Design/Removal Action Work Plan for Former Oxbow Areas J and K* (Conceptual Work Plan), submitted in March 2005; a *Final Removal Design/Removal Action Work Plan for Former Oxbow Areas J and K* (Final Work Plan), submitted in September 2005; and an Addendum to Final Work Plan (Final Work Plan Addendum), submitted in April 2006. Copies of these documents were sent to you. As indicated in those work plans, the Trust property was divided into three areas for evaluation purposes: (1) the central area of the property, which includes the building and the paved and gravel parking areas and is in commercial use; (2) an undeveloped area on the western side of the property which is considered to be in recreational use and which, for evaluation purposes, was combined with the adjacent recreational portion of adjoining Parcel K10-11-1 (jointly referred to as Recreational Area R2); and (3) an undeveloped area in the southeastern portion of the property, which is also considered to be in recreational use (referred to as Recreational Area R3A). These three areas of the Trust property are shown on the attached Figure 1, along with GE's groundwater monitoring wells that remain on the Trust property. The work plans provided for the implementation of a Conditional Solution at each of these areas, and they were subsequently approved by EPA.

GE's work plans included a detailed evaluation of each of these three areas. The evaluations of the commercial portion and Recreational Area R3A were presented in the Conceptual Work Plan, and a revised evaluation of Recreational Area R2 was presented in the Final Work Plan Addendum. The evaluations showed that the concentrations of PCBs and other chemicals in soil at Recreational Area R3A already met the applicable cleanup standards in the Consent Decree for recreational properties and that thus soil cleanup was not necessary in that area. For the commercial portion of the Trust property and for Recreational Area R2, the evaluations indicated the need for cleanup; and hence GE proposed such cleanup and showed that, after the cleanup, the commercial portion would meet the applicable Consent Decree standards for commercial properties and Recreational Area R2 would meet the applicable standards for recreational properties.

For your convenience, we note that the applicable soil cleanup standards include the following:

- For PCBs at commercial areas, average concentrations of 25 parts per million (ppm) for the top foot (with no individual PCB concentration above 125 ppm in unpaved areas), 25 ppm for the top three feet, 200 ppm for the 1- to 6-foot depth interval, and 100 ppm for the 0- to 15-foot depth interval;
- For PCBs at recreational areas, average PCB concentrations of 10 ppm for the top foot of soil (with no individual PCB concentration above 50 ppm in unpaved areas), 10 ppm for the top three feet of soil, and 100 ppm for the 0- to 15-foot depth interval; and
- For other chemicals in soil at both commercial and recreational areas, certain risk-based criteria set forth in the Consent Decree, as described in GE's Conceptual Work Plan.

GE performed the cleanup actions at the Trust property in 2006. These actions included the removal and replacement of a total of approximately 270 cubic yards of soil from the commercial area of property and approximately 375 cubic yards of soil from Recreational Area R2. At the conclusion of the cleanup, the property was restored in accordance with an agreement between you and GE.

Now that the cleanup at the Trust property has been completed, GE is providing this letter, as required by the Consent Decree, to explain: (1) the terms of the Conditional Solution, including the requirements applicable to GE and the Trust regarding future cleanup activities at the property; and (2) the levels of PCBs and other chemicals remaining at the Trust property.

#### 1. Requirements for Implementing Future Cleanup

As noted above, following completion of the soil cleanup actions, the concentrations of PCBs and other chemicals in the soil at the Trust property satisfy the applicable cleanup standards for such non-residential properties under the Consent Decree. As a result, no further soil-related actions are required at the Trust property at this time. However, the evaluation and cleanup at each of those areas would not satisfy the standards that would apply if the property were ever used for residential purposes (or, for the commercial area, recreational purposes). Accordingly, a Conditional Solution will be implemented for the Trust property, effective immediately, to address future uses and activities at the property. Under the Consent Decree requirements for Conditional Solutions, this means the following:

If, in the future, you should decide to change the current use of the Trust property to residential (or, for the commercial area, recreational) use or to expand the current business or to perform construction or excavation activities, and if that new or changed use is legally permissible, GE will conduct additional cleanup actions at the Trust property, if necessary, to be protective for such future use, provided that certain conditions specified in the Consent Decree are met. Specifically, those conditions require that you satisfy the following criteria:

- First, you must show that you have submitted a plan to the appropriate governmental authorities to authorize the future use (if such a plan or authorization is necessary for the use) and that such plan (if required) has been approved by the governmental authorities. Such governmental approvals may include zoning approval, Conservation Commission approval, building permits, and any other necessary approvals.
- In addition, you must provide to EPA and to GE (directly or through EPA) “other documented evidence of a commitment to such use,” such as, for example, evidence of financing or other financial assurance for the project, other plans for implementing the project (such as architectural plans, contracts for performance of the project, or other similar plans), or an affidavit that you intend to go forward with the project or other change in use if the necessary cleanup actions are taken.

If you provide this required documentation and EPA determines that you have satisfied the above criteria and that cleanup is necessary to allow such use, EPA will notify GE. GE will then be required to submit work plans for any necessary additional sampling and/or cleanup actions to allow such use and, upon EPA approval, to implement those plans. Such cleanup may include soil removal or other remediation as necessary to meet the applicable cleanup standards under the Consent Decree for the new use, or may include, for activities that involve excavation or off-property disposition of soils, actions to ensure the proper excavation, management, and disposition of such soils. While GE is required to conduct such additional cleanup actions in the event that the above conditions are met, GE also retains any rights it may have under the law to seek contribution from others for costs incurred by GE to clean up contaminants not related to GE.

In the event that you sell the Trust property, these same requirements will continue to apply, provided that the successor owner meets the criteria specified above.

In addition, you should be aware that the Consent Decree requires GE to conduct annual inspections of the Trust property to determine whether there have been any changes in activities and uses that would be inconsistent with current uses or would involve certain soil disturbance activities. These inspections may require us to contact you further in the future.

For purposes of providing the documentation described above or if you have any question about this matter, the following are the relevant contact persons:

For GE:           Richard W. Gates  
                      Remediation Manager  
                      General Electric Company  
                      159 Plastics Avenue  
                      Pittsfield, MA 01201  
                      (413) 448-5909

For EPA: Dean Tagliaferro  
GE-Pittsfield Team Leader  
U.S. Environmental Protection Agency  
EPA New England  
One Congress Street, Suite 1100 (Mail Code: HBO)  
Boston, MA 02114  
(617) 918-1282

For MassDEP: Susan Steenstrup  
Project Coordinator, Special Projects  
Bureau of Waste Site Cleanup  
Massachusetts Department of Environmental Protection  
436 Dwight Street  
Springfield, Massachusetts 01103  
(413) 755-2264

## 2. Existing Levels of PCBs and Other Chemicals

GE is also required to notify the owner of the remaining levels of PCBs and other chemicals at a property where a Conditional Solution is implemented. For the Trust property, the results of GE's soil sampling were described in prior reports submitted to EPA, copies of which were sent to you.

Under the Consent Decree, GE was required to evaluate the concentrations of various constituents in soil in certain specified depth intervals at each of the above-described areas. For your convenience, the attached Tables 1 through 3 summarize, for the commercial area of the Trust property and Recreational Areas R2 and R3A, respectively, the average concentrations of PCBs, as well as the other chemicals retained for evaluation after an initial screening step, that GE has calculated to remain in each of the relevant depth intervals. (These tables are based on calculations presented in the Conceptual Work Plan. Note that Table 2 covers the entire Recreational Area R2, not just the portion on the Trust property, because GE's evaluations were conducted for that overall area.)

The attached tables also show that, for PCBs, the current concentrations in each relevant depth interval at each area are less than the applicable non-residential cleanup standards in the Consent Decree for PCBs. They further show that, for another set of constituents, known as polychlorinated dibenzo-*p*-dioxin and polychlorinated dibenzofuran toxicity equivalency quotients (PCDD/PCDF TEQs), the current concentrations are likewise below the Consent Decree applicable cleanup standards for such compounds. Finally, for the remaining chemicals that were retained for evaluation, the tables indicate that the average concentrations of those chemicals are either below the applicable numerical standards used for comparison or have been shown by a risk assessment performed by GE and approved by EPA, based on current use conditions, to pose no risk above the risk benchmarks set forth in the Consent Decree.



Therefore, for all of the substances evaluated, the Trust property currently satisfies the applicable Consent Decree standards for such non-residential properties. You and any successor owners should, however, take into account the existence of these substances on the Trust property in conducting any activities such as excavation or digging in the future. In this connection, EPA has prepared a Fact Sheet relating to future uses and activities at this property. A copy of that Fact Sheet is also attached to this letter.

Finally, you should be aware that GE is also required to notify any entity with an interest in the Trust property, such as the holders of easements or leases, of the Conditional Solution implemented at the property. GE will provide these notification in the near future, with copies to you.

Please call Dick Gates at 413-448-5909 if you have any questions about the information in this letter.

Very truly yours,

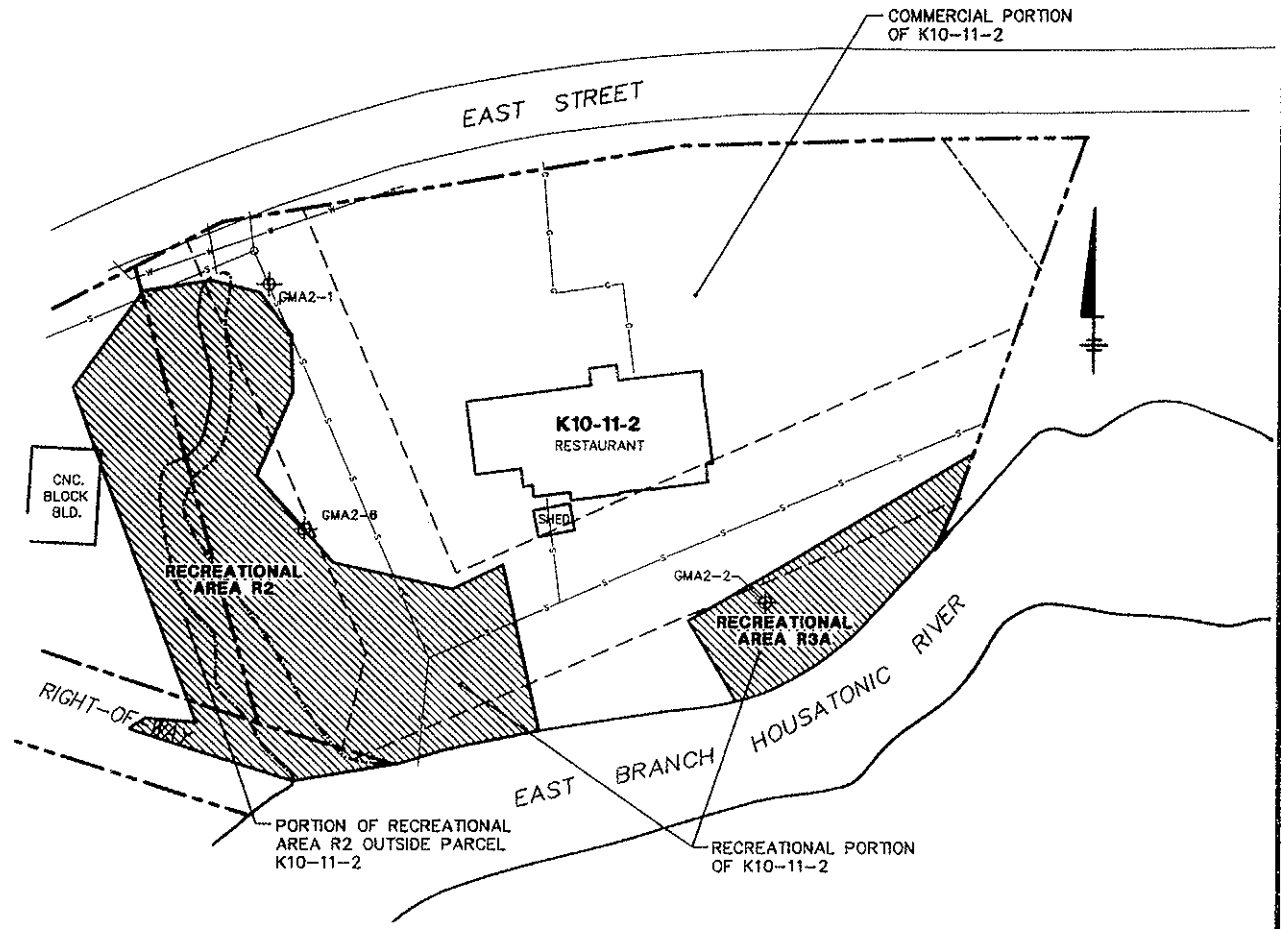


Michael T. Carroll  
Manager, Pittsfield Remediation Programs

Attachments

cc: Dean Tagliaferro, EPA  
Timothy Conway, EPA  
Holly Inglis, EPA  
Anna Symington, MassDEP  
Susan Steenstrup, MassDEP  
Jane Rothchild, MassDEP  
Richard Gates, GE  
Roderic McLaren, GE  
James Bieke, Goodwin Procter

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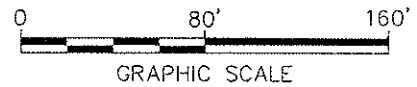


**LEGEND**

- PARCEL BOUNDARY
- K10-10-2 PARCEL ID**
- RECREATIONAL AREA R2** RECREATIONAL AREA ID
- WESTERN MASS. ELECTRIC CO. EASEMENT
- SEWER EASEMENT
- ..... STREAMS WITH INTERMITTENT FLOW
- APPROXIMATE EDGE OF WATER
- APPROXIMATE SEWER LOCATION
- APPROXIMATE WATER MAIN LOCATION
- APPROXIMATE GAS LINE LOCATION
- APPROXIMATE DRAIN LINE LOCATION
- ▨ RECREATIONAL PORTION OF COMMERCIAL PROPERTY
- ⊕ GMA2-2 MONITORING WELL LOCATION

**GENERAL NOTES:**

1. BASE MAP MODIFIED FROM SURVEY DRAWINGS NOS. GE-1080-1 (6/25/04) AND GE-1080-3 (11/18/04) BY HILL ENGINEERS, ARCHITECTS AND PLANNERS, INC. AND FROM PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC. - FLOWN IN APRIL 1990.
2. EASEMENTS AND PROPERTY LINES DIGITIZED FROM COPIES OF CITY OF PITTSFIELD TAX ASSESSORS MAPS AND ARE APPROXIMATE.
3. UTILITY LOCATIONS ARE APPROXIMATE, AND ALL UTILITIES MAY NOT BE SHOWN.



GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS <b>FORMER OXBOW AREA J AND K</b>	
<b>FINAL CONDITIONS AT          PARCEL K10-11-2</b>	
 <small>Infrastructure, environment, facilities</small>	FIGURE <b>1</b>

**TABLE 1: RESIDUAL CONCENTRATIONS IN SOIL AT PARCEL K10-11-2 – COMMERCIAL AREA <sup>1</sup>**

Depth Interval (feet below ground)	Constituent Concentration (in parts per million - ppm) <sup>1</sup>				
	PCBs <sup>2</sup>	PCDD/PCDF TEQs <sup>3</sup>	3-Methyl- cholanthrene <sup>4</sup>	Benzo(a)- anthracene <sup>4</sup>	Benzo(a)pyrene <sup>4</sup>
0- to 1-foot depth	13.1	0.0002	2.6	3.1	3.0
0- to 3-foot depth	15.7	0.0002	2.4	4.5	3.6
1- to 6-foot depth	7.8	N/A	2.0	4.7	3.4
0- to 15-foot depth	7.5	0.00005 (for 1-15 ft depth)	2.2	3.3	2.8

Depth Interval (feet below ground)	Benzo(b)- fluoranthene <sup>4</sup>	Benzo(k)- fluoranthene <sup>4</sup>	Dibenzo(a,h)- anthracene <sup>4</sup>	Indeno(1,2,3- cd)pyrene <sup>4</sup>	Arsenic <sup>4</sup>
0- to 1-foot depth	3.4	2.2	0.9	1.5	4.2
0- to 3-foot depth	3.9	3.0	1.0	1.8	4.2
1- to 6-foot depth	3.0	3.2	0.9	2.1	5.7
0- to 15-foot depth	2.8	2.3	0.8	1.5	4.4

1. This table includes those chemical constituents that were retained for evaluation at this area after an initial conservative screening step. All concentrations listed are averages except for PCDD/PCDF TEQs, for which the maximum concentration is given. The concentrations shown are those calculated to be present after the soil cleanup.
2. For comparison, the cleanup standards in the Consent Decree for PCBs at commercial properties are 25 ppm for the 0-1 foot and 0-3 foot depths, 200 ppm for the 1-6 foot depth, and 100 ppm for the 0-15 foot depth.
3. For comparison, the cleanup standards under the Consent Decree for PCDD/PCDF TEQs at commercial properties are 0.005 ppm for the 0-1 foot and 0-3 foot depths and 0.02 ppm for the 1-15 foot depth (there are no separate standards for the 1-6 foot or 0-15 foot depth intervals).
4. For substances other than PCBs and PCDD/PCDF TEQs, the Consent Decree allows an area-specific risk assessment to be performed. The area-specific risk assessment performed for these constituents in soils at the commercial area of Parcel K10-11-2, as presented in GE's Conceptual Work Plan and approved by EPA, shows that these constituents do not pose risks above the risk benchmarks set forth in the Consent Decree.

**TABLE 2: RESIDUAL CONCENTRATIONS IN SOIL AT RECREATIONAL AREA R2 <sup>1</sup>**

Depth Interval (feet below ground)	Constituent Concentration (in parts per million - ppm) <sup>1</sup>				
	PCBs <sup>2</sup>	PCDD/PCDF TEQs <sup>3</sup>	Benzo(a)anthracene <sup>4</sup>	Benzo(a)pyrene <sup>4</sup>	Benzo(b)fluoranthene <sup>4</sup>
0- to 1-foot depth	3.0	0.0002	1.9	1.0	0.9
0- to 3-foot depth	7.8	0.0004	1.4	0.8	0.8
0- to 15-foot depth	3.2	0.00007 (for 3-15 ft depth)	1.4	0.9	0.9

Depth Interval (feet below ground)	Benzo(k)-fluoranthene <sup>4</sup>	Chrysene <sup>4</sup>	Dibenzo(a,h)-anthracene <sup>4</sup>	Indeno(1,2,3-cd)pyrene <sup>4</sup>	Phenanthrene <sup>4</sup>	Arsenic <sup>4</sup>
0- to 1-foot depth	1.2	2.0	0.3	0.6	3.3	5.1
0- to 3-foot depth	1.0	1.5	0.3	0.5	2.5	5.4
0- to 15-foot depth	1.0	1.5	0.3	0.5	2.2	5.4

1. This table relates to Recreational R2 as depicted on Figure 1. It includes those chemical constituents that were retained for evaluation at this area after an initial conservative screening step. All concentrations listed are averages except for PCDD/PCDF TEQs, for which the maximum concentration is given. For all constituents, the concentrations shown are those calculated to be present after the soil cleanup.
2. For comparison, the cleanup standards in the Consent Decree for PCBs at recreational areas with Conditional Solutions are 10 ppm for the 0-1 foot and 0-3 foot depths and 100 ppm for the 0-15 foot depth.
3. For comparison, the cleanup standards under the Consent Decree for PCDD/PCDF TEQs at recreational areas with Conditional Solutions are 0.001 ppm for the 0-1 foot and 0-3 foot depths and 0.02 ppm for the 3-15 foot depth (there is no separate standard for the 0-15 foot depth interval).
4. For these substances, the cleanup standards used for this area were the "Method 1" soil standards adopted by the MassDEP, including the "S-1" soil standards for the 0-1 and 0-3 foot depths and the "S-2" soil standards for the 0-15 foot depth. These standards are listed at 310 CMR 40.0975 (Tables 2 and 3). The above-listed concentrations are all well below those standards.

**TABLE 3: RESIDUAL CONCENTRATIONS IN SOIL AT PARCEL K10-11-2 – RECREATIONAL AREA R3A <sup>1</sup>**

Depth Interval (feet below ground)	Constituent Concentration (in parts per million - ppm) <sup>1</sup>				
	PCBs <sup>2</sup>	PCDD/PCDF TEQs <sup>3</sup>	Benzo(a)anthracene <sup>4</sup>	Benzo(a)pyrene <sup>4</sup>	Benzo(b)fluoranthene <sup>4</sup>
0- to 1-foot depth	3.3	0.00003	0.9	0.6	0.6
0- to 3-foot depth	4.6	0.00003	1.5	0.8	0.8
0- to 15-foot depth	4.1	0.00002 (for 3-15 ft depth)	1.4	0.8	0.8

Depth Interval (feet below ground)	Dibenzo(a,h)-anthracene <sup>4</sup>	Indeno(1,2,3-cd)pyrene <sup>4</sup>	Arsenic <sup>4</sup>	Sulfide <sup>4</sup>
0- to 1-foot depth	0.1	0.3	4.8	690
0- to 3-foot depth	0.2	0.4	4.8	349
0- to 15-foot depth	0.3	0.5	4.5	204

1. This table includes those chemical constituents that were retained for evaluation at this area after an initial conservative screening step. All concentrations listed are averages except for PCDD/PCDF TEQs, for which the maximum concentration is given. The concentrations shown are existing concentrations calculated based on the sampling data.
2. For comparison, the cleanup standards in the Consent Decree for PCBs at recreational properties are 10 ppm for the 0-1 foot and 0-3 foot depths and 100 ppm for the 0-15 foot depth.
3. For comparison, the cleanup standards under the Consent Decree for PCDD/PCDF TEQs at recreational properties are 0.001 ppm for the 0-1 foot and 0-3 foot depths and 0.02 ppm for the 3-15 foot depth (there is no separate standard for the 0-15 foot depth interval).
4. For substances other than PCBs and PCDD/PCDF TEQs, the Consent Decree allows an area-specific risk assessment to be performed. The area-specific risk assessment performed for these constituents in soils at Recreational Area R3A, as presented in GE's Conceptual Work Plan and approved by EPA, shows that these constituents do not pose risks above the risk benchmarks set forth in the Consent Decree.

## **FACT SHEET RELATING TO FUTURE PROPERTY USES AND ACTIVITIES**

**Prepared by the United States Environmental Protection Agency**

Ms. Rice:

This Fact Sheet is an attachment to a letter that General Electric Company ("GE") is sending you as a follow-up to the soil cleanup activities that GE performed on your property. The federal Environmental Protection Agency ("EPA") has prepared this Fact Sheet to inform you and successor owners of future uses and activities that you should not conduct on your property due to the levels of remaining contamination.

As GE has described in its letter, for all of the substances evaluated, your property currently satisfies the Consent Decree standards for properties in commercial use, and a portion of your property satisfies the Consent Decree standards for properties in recreational use. Because the evaluation and cleanup of your property currently does not allow for unlimited uses, however, you and any successor owners should observe the following regarding your property:

- The commercial portion of your Parcel K10-11-2 should only be used for commercial purposes; it should not be used for recreational or residential uses. The recreational portion of Parcel K10-11-2 should only be used for recreational or commercial purposes; it should not be used for residential purposes. See Figure 1 attached to GE's letter for a map of the properties.

- Except for emergency excavations, you should not excavate or dig below three feet of the surface of the ground. You may perform limited excavation and work in the top three feet of the surface of the ground. Please contact EPA and the Massachusetts Department of Environmental Protection ("MassDEP") before excavating or moving any amount of soil below three feet and/or before excavating or moving more than ten (10) cubic yards of soil in the top three feet of the surface of the ground. Ten (10) cubic yards is approximately one-half of a standard dump truck of soil. Also, please contact EPA and MassDEP after any emergency excavations.

- Groundwater monitoring wells are located on your property. These wells, which are shown on Figure 1 attached to GE's letter, should not be disturbed in any manner, such as through digging or excavation work.

- Please contact GE, EPA, and the MassDEP before disposing of any soil off of the property. Governmental regulations may restrict the off-site disposal of soil from your property.

- Please contact GE before any subsurface utility excavations for any new or existing utilities. Under the Consent Decree, GE is required to ensure that the spatial average PCB concentration of any utility backfill material is at or below 25 parts per million of PCBs.

As required by the Consent Decree, if, in the future, you decide to change the current use of your property to residential use, or for the commercial portion of Parcel K10-11-2, to residential or recreational use, or to expand your business or to perform construction or excavation activities, and if that new or changed use is legally permissible, GE will conduct additional cleanup actions at your property, if necessary, to be protective of such future use, provided that certain conditions specified in the Consent Decree are met. Please refer to the letter from GE for more information.

If you have any questions about this Fact Sheet, please call Dean Tagliaferro, of EPA, at 413-236-0969, or Susan Steenstrup, Special Projects Coordinator, MassDEP, at 413-784-1100.

ARCADIS

Conditional Solution Notice Letter  
to Property Owner M. Callahan,  
Inc. dated June 21, 2007





GE  
159 Plastics Avenue  
Pittsfield, MA 01201  
USA

June 21, 2007

Mr. M.E. Callahan, Jr.  
President  
M. Callahan Inc.  
P.O. Box 526  
Pittsfield, MA 01201

**Re: Your Property on East Street - Tax Parcel Number K10-11-3**

Dear Mr. Callahan:

On behalf of the General Electric Company (GE), I am providing this letter to you as a follow-up to the soil cleanup activities that GE performed on your above-referenced property in 2006. As you know, those cleanup activities, as well as the preceding soil sampling activities, were performed by GE under its Consent Decree with the U.S. Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MassDEP), and other governmental bodies. The Consent Decree requires that, following cleanup at non-residential properties like yours, which are subject to what the Consent Decree calls a "Conditional Solution," GE must provide you with a letter explaining your rights under the Conditional Solution, as well as describing the remaining levels of chemicals in soil at your property.

You will recall that GE conducted extensive sampling of the soil at your property to determine whether it contained concentrations of polychlorinated biphenyls (PCBs) and other chemicals that would require cleanup under the standards in the Consent Decree. During this process, GE submitted to EPA a number of work plans and reports relating to that sampling and GE's evaluations of the sampling results, and it provided copies to you. All of these submittals were approved by EPA.

In addition, GE sent you a letter dated April 22, 2003, explaining the options that the Consent Decree provides for the owners of non-residential properties like yours. To review briefly, the Consent Decree provides that, for such properties, the owner has two options relating to the cleanup and future use of the property (assuming that the property does not meet the Consent Decree standards for residential properties). One of those options would involve the owner's execution of a legal deed restriction on the property, known as a "Grant of Environmental Restriction and Easement" (or "ERE" for short), which would allow continuation of the current non-residential uses of the property, but would place restrictions on future changes to different types of use (e.g., residential use) and on future excavations. Alternatively, if the owner elects not to execute an ERE for the property, GE would implement what is called a Conditional Solution. Under a Conditional Solution, GE would clean up the property to standards

protective of its current uses and would agree to conduct additional cleanup (if necessary) in the future if the owner meets certain conditions demonstrating a commitment to implement a future use for which additional cleanup is necessary.

Our letter to you of April 22, 2003 explained these options in more detail. Following further communications between you and GE, you advised GE in a letter dated August 1, 2003 that you did not wish to execute an ERE on your property. GE subsequently notified EPA and MassDEP of your decision and that GE would thus implement a Conditional Solution at your property.

GE then submitted work plans to EPA describing the evaluations and proposed cleanup work at your property. These included a *Conceptual Removal Design/Removal Action Work Plan for Former Oxbow Areas J and K* (Conceptual Work Plan), submitted in March 2005; a *Final Removal Design/Removal Action Work Plan for Former Oxbow Areas J and K* (Final Work Plan), submitted in September 2005; and an Addendum to Final Work Plan (Final Work Plan Addendum), submitted in April 2006. Copies of these documents were sent to you. As indicated in those work plans, your property was divided into two areas for evaluation purposes: (1) the northern portion of Parcel K10-11-3, which is considered to be in commercial use, and (2) the southern portion of that parcel, which is considered to be in recreational use, referred to as Recreational Area R3B. (Recreational Area R3B initially included a portion of adjacent Parcel K10-11-5, but was reconfigured in the Final Work Plan Addendum to include only the portion of that recreational area within your parcel.) These two areas of your property are shown on the attached Figure 1. GE's work plans provided for the implementation of a Conditional Solution at each of these areas of your property, and they were subsequently approved by EPA.

GE's work plans included a detailed evaluation of each of the two areas of your property. The evaluation of the commercial portion of your property, presented in the Conceptual Work Plan, showed that the concentrations of PCBs in soil at that area already met the applicable cleanup standards in the Consent Decree for PCBs at commercial properties and that thus soil cleanup was not necessary in that area for PCBs. It also showed, however, that some cleanup was required at that area to address certain other chemicals in the soil. Hence, it proposed such cleanup and showed that, after performance of the cleanup, the concentrations of the other chemicals would meet the applicable cleanup standards in the Consent Decree for commercial areas. For the recreational portion of your parcel, GE's final evaluation, presented in the Addendum to Final Work Plan, showed that cleanup was necessary to address PCBs, but not other chemicals. Hence, GE proposed such cleanup and showed that, after performance of the cleanup, the concentrations of PCBs in soil would meet the applicable cleanup standards in the Consent Decree for recreational areas.

For your convenience, we note that the applicable soil cleanup standards include the following:

- For PCBs at commercial areas, average concentrations of 25 parts per million (ppm) for the top foot (with no individual PCB concentration above 125 ppm in unpaved areas), 25 ppm

for the top three feet, 200 ppm for the 1- to 6-foot depth interval, and 100 ppm for the 0- to 15-foot depth interval;

- For PCBs at recreational areas, average PCB concentrations of 10 ppm for the top foot of soil (with no individual PCB concentration above 50 ppm in unpaved areas), 10 ppm for the top three feet of soil, and 100 ppm for the 0- to 15-foot depth interval; and
- For other chemicals in soil at both commercial and recreational areas, certain risk-based criteria set forth in the Consent Decree, as described in GE's Conceptual Work Plan.

As you also know, GE performed the cleanup actions at your property in 2006. These actions included the removal and replacement of a total approximately 175 cubic yards of soil from your property.

Now that the cleanup at your property has been completed, GE is providing this letter, as required by the Consent Decree, to explain: (1) the terms of the Conditional Solution, including the requirements applicable to GE and you regarding future cleanup activities at the property; and (2) the levels of PCBs and other chemicals remaining at your property.

#### 1. Requirements for Implementing Future Cleanup

As noted above, following completion of the soil cleanup actions, the concentrations of PCBs and other chemicals in the soil at each of the areas of your property satisfy the applicable cleanup standards for such non-residential properties. As a result, no further actions are required at your property at this time. However, the evaluation and cleanup at those areas would not satisfy the standards that would apply if those areas were ever used for residential purposes (or, for the commercial area, recreational purposes). Accordingly, a Conditional Solution will be implemented for your property, effective immediately, to address future uses and activities at the property. Under the Consent Decree requirements for Conditional Solutions, this means the following:

If, in the future, you should decide to change the current use of your property to residential (or, for the commercial area, recreational) use or to perform construction or excavation activities, and if that new or changed use is legally permissible, GE will conduct additional cleanup actions at your property, if necessary, to be protective for such future use, provided that certain conditions specified in the Consent Decree are met. Specifically, those conditions require that you satisfy the following criteria:

- First, you must show that you have submitted a plan to the appropriate governmental authorities to authorize the future use (if such a plan or authorization is necessary for the use) and that such plan (if required) has been approved by the governmental authorities. Such governmental approvals may include zoning approval, Conservation Commission approval, building permits, and any other necessary approvals.

- In addition, you must provide to EPA and to GE (directly or through EPA) “other documented evidence of a commitment to such use,” such as, for example, evidence of financing or other financial assurance for the project, other plans for implementing the project (such as architectural plans, contracts for performance of the project, or other similar plans), or an affidavit that you intend to go forward with the project or other change in use if the necessary cleanup actions are taken.

If you provide this required documentation and EPA determines that you have satisfied the above criteria and that cleanup is necessary to allow such use, EPA will notify GE. GE will then be required to submit work plans for any necessary additional sampling and/or cleanup actions to allow such use and, upon EPA approval, to implement those plans. Such cleanup may include soil removal or other remediation as necessary to meet the applicable cleanup standards under the Consent Decree for the new use, or may include, for activities that involve excavation or off-property disposition of soils, actions to ensure the proper excavation, management, and disposition of such soils. While GE is required to conduct such additional cleanup actions in the event that the above conditions are met, GE also retains any rights it may have under the law to seek contribution from others for costs incurred by GE to clean up contaminants not related to GE.

In the event that you sell your property, these same requirements will continue to apply, provided that the successor owner meets the criteria specified above.

In addition, you should be aware that the Consent Decree requires GE to conduct annual inspections of your property to determine whether there have been any changes in activities and uses that would be inconsistent with current uses or would involve certain soil disturbance activities. These inspections may require us to contact you further in the future.

For purposes of providing the documentation described above or if you have any question about this matter, the following are the relevant contact persons:

For GE:           Richard W. Gates  
                      Remediation Manager  
                      General Electric Company  
                      159 Plastics Avenue  
                      Pittsfield, MA 01201  
                      (413) 448-5909

For EPA:           Dean Tagliaferro  
                      GE-Pittsfield Team Leader  
                      U.S. Environmental Protection Agency  
                      EPA New England  
                      One Congress Street, Suite 1100 (Mail Code: HBO)  
                      Boston, MA 02114  
                      (617) 918-1282

For MassDEP: Susan Steenstrup  
Project Coordinator, Special Projects  
Bureau of Waste Site Cleanup  
Massachusetts Department of Environmental Protection  
436 Dwight Street  
Springfield, Massachusetts 01103  
(413) 755-2264

## 2. Existing Levels of PCBs and Other Chemicals

GE is also required to notify the owner of the remaining levels of PCBs and other chemicals at a property where a Conditional Solution is implemented. For your property, the results of GE's soil sampling were described in prior reports submitted to EPA, copies of which were sent to you.

Under the Consent Decree, GE was required to evaluate the concentrations of various constituents in soil in certain specified depth intervals at each of the two areas at your property, both before and after the cleanup. For your convenience, the attached Tables 1 and 2 summarize, for each area of your property, the average concentrations of PCBs, as well as the other chemicals retained for evaluation after an initial screening step, that GE has calculated to remain in each of the relevant depth intervals. (These tables are based on calculations presented in the Conceptual Work Plan.) The attached tables also show that, for PCBs, the current concentrations in each relevant depth interval at each area are less than the applicable non-residential cleanup standards in the Consent Decree for PCBs. They further show that, for another set of constituents, known as polychlorinated dibenzo-*p*-dioxin and polychlorinated dibenzofuran toxicity equivalency quotients (PCDD/PCDF TEQs), the current concentrations are likewise below the Consent Decree applicable cleanup standards for such compounds. Finally, for the remaining chemicals that were retained for evaluation, the tables indicate that risk assessments performed by GE and approved by EPA demonstrated that, under current use conditions, those constituents pose no risk above the risk benchmarks set forth in the Consent Decree.

Therefore, for all of the substances evaluated, both areas of your property currently satisfy the Consent Decree standards for such non-residential properties. You and any successor owners should, however, take into account the existence of these substances on your property in conducting any activities such as excavation or digging in the future. In this connection, EPA has prepared a Fact Sheet relating to future uses and activities at this property. A copy of that Fact Sheet is also attached to this letter.

Finally, you should be aware that GE is also required to notify any entity with an interest in your property, such as the holders of easements, of the Conditional Solution implemented at the property. GE will provide these notification in the near future, with copies to you.

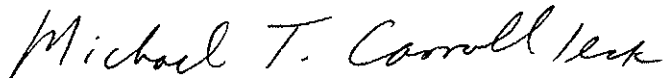
Mr. M.E. Callahan, Jr.

June 21, 2007

Page 6

Please call Dick Gates at 413-448-5909 if you have any questions about the information in this letter.

Very truly yours,

A handwritten signature in black ink that reads "Michael T. Carroll". The signature is written in a cursive style with a prominent "M" and "C".

Michael T. Carroll  
Manager, Pittsfield Remediation Programs

Attachments

cc: Dean Tagliaferro, EPA  
Timothy Conway, EPA  
Holly Inglis, EPA  
Anna Symington, MassDEP  
Susan Steenstrup, MassDEP  
Jane Rothchild, MassDEP  
Richard Gates, GE  
Roderic McLaren, GE  
James Bieke, Goodwin Procter

# EAST STREET



COMMERCIAL PORTION  
OF K10-11-3


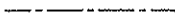
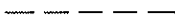

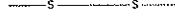

**K10-11-3**

**RECREATIONAL  
AREA R3B**

RECREATIONAL PORTION  
OF K10-11-3

East Branch Housatonic River

### LEGEND

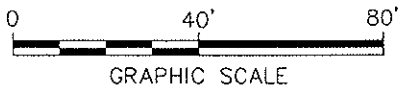
-  PARCEL BOUNDARY
- K10-11-3** PARCEL ID
- RECREATIONAL AREA R3B** RECREATIONAL AREA ID
-  WESTERN MASS. ELECTRIC CO. EASEMENT
-  SEWER EASEMENT
-  APPROXIMATE EDGE OF WATER
-  APPROXIMATE SEWER LOCATION
-  RECREATIONAL PORTION OF COMMERCIAL PROPERTY

### GENERAL NOTES:

1. BASE MAP MODIFIED FROM SURVEY DRAWINGS NOS. GE-1080-1 (6/25/04) AND GE-1080-3 (11/18/04) BY HILL ENGINEERS, ARCHITECTS AND PLANNERS, INC. AND FROM PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC. - FLOWN IN APRIL 1990.
2. EASEMENTS AND PROPERTY LINES DIGITIZED FROM COPIES OF CITY OF PITTSFIELD TAX ASSESSORS MAPS AND ARE APPROXIMATE.
3. UTILITY LOCATIONS ARE APPROXIMATE, AND ALL UTILITIES MAY NOT BE SHOWN.

GENERAL ELECTRIC COMPANY  
PITTSFIELD, MASSACHUSETTS  
**FORMER OXBOW AREA J AND K**

**FINAL CONDITIONS AT  
PARCEL K10-11-3**



 **ARCADIS BBL**  
*infrastructure, environment, facilities*

FIGURE  
**1**

[S:\R-85-DMW] S:\R-85-DMW R0A.DWG LAYER: ON=\*, OFF=\*REF\*  
 G:\CAD\GE-CAD\GE\_ACTIVE\C\20639008\ERE\20639004.DWG SAVED: 2/12/2007 3:49 PM LAYOUT: 1 PAGES: 1 PAGESETUP: PENTABLE: PLTFULL.CTB PRINTED: 2/12/2007 5:03 PM BY: DWODARCZYK  
 PROJECTNAME: 20639X01 IMAGES:

**TABLE 1: RESIDUAL CONCENTRATIONS IN SOIL AT PARCEL K10-11-3 – COMMERCIAL AREA<sup>1</sup>**

Depth Interval (feet below ground)	Constituent Concentration (in parts per million - ppm) <sup>1</sup>				
	PCBs <sup>2</sup>	PCDD/PCDF TEQs <sup>3</sup>	Benzo(a)anthracene <sup>4</sup>	Benzo(a)pyrene <sup>4</sup>	Benzo(b)fluoranthene <sup>4</sup>
0- to 1-foot depth	14.3	0.00009	3.9	4.7	4.4
0- to 3-foot depth	5.4	0.00009	4.4	4.7	4.1
1- to 6-foot depth	0.4	N/A	5.1	4.0	2.9
0- to 15-foot depth	1.1	0.00001 (for 1-15 ft depth)	3.1	3.0	2.5

Depth Interval (feet below ground)	Benzo(k)fluoranthene <sup>4</sup>	Dibenzo(a,h)anthracene <sup>4</sup>	Indeno(1,2,3-cd)pyrene <sup>4</sup>	Arsenic <sup>4</sup>
0- to 1-foot depth	4.8	0.5	2.0	5.0
0- to 3-foot depth	4.6	0.7	2.3	5.0
1- to 6-foot depth	3.5	0.7	2.4	4.9
0- to 15-foot depth	2.9	0.5	1.6	3.9

1. This table includes those chemical constituents that were retained for evaluation at this area after an initial conservative screening step. All concentrations listed are averages except for PCDD/PCDF TEQs, for which the maximum concentration is given. For PCBs, the concentrations shown are pre-cleanup concentrations, since cleanup was not required to address PCBs. For the other constituents, the concentrations shown are those calculated to be present after the soil cleanup.
2. For comparison, the cleanup standards in the Consent Decree for PCBs at commercial properties are 25 ppm for the 0-1 foot and 0-3 foot depths, 200 ppm for the 1-6 foot depth, and 100 ppm for the 0-15 foot depth.
3. For comparison, the cleanup standards under the Consent Decree for PCDD/PCDF TEQs at commercial properties are 0.005 ppm for the 0-1 foot and 0-3 foot depths and 0.02 ppm for the 1-15 foot depth (there are no separate standards for the 1-6 foot or 0-15 foot depth intervals).
4. For substances other than PCBs and PCDD/PCDF TEQs, the Consent Decree allows an area-specific risk assessment to be performed. The area-specific risk assessment performed for these constituents in soils at the commercial area of Parcel K10-11-3, as presented in GE's Conceptual Work Plan and approved by EPA, shows that these constituents do not pose risks above the risk benchmarks set forth in the Consent Decree.



**TABLE 2:  
RESIDUAL CONCENTRATIONS IN SOIL AT PARCEL K10-11-3 – RECREATIONAL AREA R3B<sup>1</sup>**

Depth Interval (feet below ground)	Constituent Concentration (in parts per million - ppm) <sup>1</sup>							
	PCBs <sup>2</sup>	PCDD/PCDF TEQs <sup>3</sup>	Benzo(a)-anthracene <sup>4</sup>	Benzo(a)-pyrene <sup>4</sup>	Benzo(b)-fluoranthene <sup>4</sup>	Dibenzo(a,h)-anthracene <sup>4</sup>	Indeno(1,2,3-cd)pyrene <sup>4</sup>	Arsenic <sup>4</sup>
0- to 1-foot depth	8.7	0.00003	2.6	2.9	3.0	0.3	1.2	4.5
0- to 3-foot depth	6.2	0.00003	1.4	1.6	1.6	0.3	0.7	4.9
0- to 15-foot depth	1.6	0.000005 (for 3-15 ft depth)	0.8	0.9	0.9	0.2	0.4	4.2

Notes:

1. This table relates to Recreational R3B as depicted on Figure 1 (i.e., the recreational area within Parcel K10-11-3). It includes those chemical constituents that were retained for evaluation at this area after an initial conservative screening step. All concentrations listed are averages except for PCDD/PCDF TEQs, for which the maximum concentration is given. For PCBs, the concentrations shown are those calculated to be present after the soil cleanup. For the other constituents, the concentrations shown are pre-cleanup concentrations, since cleanup was not required to address those constituents (although the soil cleanup for PCBs did in fact remove other concentrations present in the same areas as the PCBs being removed).
2. For comparison, the cleanup standards in the Consent Decree for PCBs at recreational properties are 10 ppm for the 0-1 foot and 0-3 foot depths and 100 ppm for the 0-15 foot depth.
3. For comparison, the cleanup standards under the Consent Decree for PCDD/PCDF TEQs at recreational properties are 0.001 ppm for the 0-1 foot and 0-3 foot depths and 0.02 ppm for the 3-15 foot depth (there is no separate standard for the 0-15 foot depth interval).
4. For substances other than PCBs and PCDD/PCDF TEQs, the Consent Decree allows an area-specific risk assessment to be performed. The area-specific risk assessment performed for these constituents in soils at Recreational Area R3B, as presented in GE's Addendum to Final Work Plan and approved by EPA, shows that these constituents do not pose risks above the risk benchmarks set forth in the Consent Decree.

## **FACT SHEET RELATING TO FUTURE PROPERTY USES AND ACTIVITIES**

**Prepared by the United States Environmental Protection Agency**

Mr. Callahan:

This Fact Sheet is an attachment to a letter that General Electric Company ("GE") is sending you as a follow-up to the soil cleanup activities that GE performed on your property. The federal Environmental Protection Agency ("EPA") has prepared this Fact Sheet to inform you and successor owners of future uses and activities that you should not conduct on your property due to the levels of remaining contamination.

As GE has described in its letter, for all of the substances evaluated, your property currently satisfies the Consent Decree standards for properties in commercial use, and a portion of your property satisfies the Consent Decree standard for properties in recreational use. Because the evaluation and cleanup of your property currently does not allow for unlimited uses, however, you and any successor owners should observe the following regarding your property:

-The commercial portion of your Parcel K10-11-3 should only be used for commercial purposes; it should not be used for recreational or residential purposes. The recreational portion of Parcel K10-11-3 should only be used for recreational or commercial purposes; it should not be used for residential purposes. See Figure 1 attached to GE's letter for a map of the property.

-Except for emergency excavations, you should not excavate or dig below three feet of the surface of the ground. You may perform limited excavation and work in the top three feet of the surface of the ground. Please contact EPA and the Massachusetts Department of Environmental Protection ("MassDEP") before excavating or moving any amount of soil below three feet and/or before excavating or moving more than ten (10) cubic yards of soil in the top three feet of the surface of the ground. Ten (10) cubic yards is approximately one-half of a standard dump truck of soil. Also, please contact EPA and MassDEP after any emergency excavations.

-Please contact GE, EPA, and the MassDEP before disposing of any soil off of the property. Governmental regulations may restrict the off-site disposal of soil from your property.

-Please contact GE before any subsurface utility excavations for any new or existing utilities. Under the Consent Decree, GE is required to ensure that the spatial average PCB concentration of any utility backfill material is at or below 25 parts per million of PCBs.

As required by the Consent Decree, if, in the future, you decide to change the current use of your property to residential use, or for the commercial portion of Parcel K10-11-3, to residential or recreational use, or to expand your business or to perform construction or excavation activities, and if that new or changed use is legally permissible, GE will conduct additional cleanup actions

at your property, if necessary, to be protective of such future use, provided that certain conditions specified in the Consent Decree are met. Please refer to the letter from GE for more information.

If you have any questions about this Fact Sheet, please call Dean Tagliaferro, of EPA, at 413-236-0969, or Susan Steenstrup, Special Projects Coordinator, MassDEP, at 413-784-1100.

ARCADIS

Conditional Solution Notice Letter  
to Trustee Bernard J. Potts of the  
Potts Family Nominee Trust dated  
June 21, 2007



GE  
159 Plastics Avenue  
Pittsfield, MA 01201  
USA

June 21, 2007

Potts Family Nominee Trust  
210 Main Street  
Lenox, MA 01240

Attention: Bernard J. Potts, Trustee

**Re: Your Property on East Street, Pittsfield, MA - Tax Parcel Number K10-13-1**

Dear Mr. Potts:

On behalf of the General Electric Company (GE), I am providing this letter to you as a follow-up to the soil cleanup activities that GE performed on your above-referenced property in Pittsfield in 2006. For purposes of this letter, your property includes Tax-Parcel K10-13-1 and the adjacent portion of the Zeno Street right-of-way, as shown on the attached figure, and is considered to be a commercial property. It does not include the adjacent undeveloped portion of Longview Terrace, which was laid out by the City of Pittsfield many years ago as a public way (although it was never constructed as a street) and has been evaluated separately.

As you may recall, the cleanup activities that GE performed at your property, as well as the preceding soil sampling activities, were performed by GE under its Consent Decree with the U.S. Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MassDEP), and other governmental bodies. The Consent Decree requires that, following cleanup at non-residential properties like yours, which are subject to what the Consent Decree calls a "Conditional Solution," GE must provide you with a letter explaining your rights under the Conditional Solution, as well as describing the remaining levels of chemicals in soil at your property.

GE conducted extensive sampling of the soil at your property to determine whether it contained concentrations of polychlorinated biphenyls (PCBs) and other chemicals that would require cleanup under the standards in the Consent Decree for commercial properties. During this process, GE submitted to EPA a number of work plans and reports relating to that sampling and GE's evaluations of the sampling results, and it provided copies to you. All of these submittals were approved by EPA.

In addition, GE sent you a letter dated July 17, 2003, explaining the options that the Consent Decree provides for the owners of non-residential properties like yours. To review briefly, the Consent Decree provides that, for such properties, the owner has two options relating to the cleanup and future use of the property (assuming that the property does not meet the Consent

Decree standards for residential properties). One of those options would involve the owner's execution of a legal deed restriction on the property, known as a "Grant of Environmental Restriction and Easement" (or "ERE" for short), which would allow continuation of the current non-residential uses of the property, but would place restrictions on future changes to different types of use (e.g., residential use) and on future excavations. Alternatively, if the owner elects not to execute an ERE for the property, GE would implement what is called a Conditional Solution. Under a Conditional Solution, GE would clean up the property to standards protective of its current uses and would agree to conduct additional cleanup (if necessary) in the future if the owner meets certain conditions demonstrating a commitment to implement a future use for which additional cleanup is necessary.

Our letter to you of July 17, 2003 explained these options in more detail. Subsequently, in a conversation with Dick Gates of GE on September 5, 2003, you advised GE that you had elected the Conditional Solution approach for your property. GE therefore advised EPA that GE would implement a Conditional Solution at your property.

GE then submitted work plans to EPA describing the evaluations and proposed cleanup work at your property. These reports included a *Conceptual Removal Design/Removal Action Work Plan for Former Oxbow Areas J and K* (Conceptual Work Plan), submitted in March 2005; a *Final Removal Design/Removal Action Work Plan for Former Oxbow Areas J and K* (Final Work Plan), submitted in September 2005; and (after additional sampling at your property) an Addendum to Final Work Plan (Final Work Plan Addendum), submitted in April 2006. Copies of these documents were sent to you, and the work plans were subsequently approved by EPA.

Following the additional sampling that GE conducted at your property in early 2006, the Addendum to Final Work Plan included a detailed evaluation of your property. That evaluation showed that the concentrations of PCBs in soil at your property already met the applicable cleanup standards in the Consent Decree for PCBs at commercial properties, and that thus soil cleanup was not necessary for PCBs. Those standards consist of average PCB concentrations of 25 parts per million (ppm) for the top foot (with no individual PCB concentration above 125 ppm in unpaved areas), 25 ppm for the top three feet, 200 ppm for the 1- to 6-foot depth interval, and 100 ppm for the 0- to 15-foot depth interval. However, for certain other chemicals (i.e., lead and antimony), GE proposed to conduct cleanup to meet applicable standards; and it showed that, after performance of that cleanup, the concentrations of the other chemicals would meet the applicable cleanup standards in the Consent Decree for commercial areas.

GE performed the cleanup actions at your property in 2006. These actions included the removal and replacement of a total of approximately 70 cubic yards of soil.

Now that the cleanup at your property has been completed, GE is providing this letter, as required by the Consent Decree, to explain: (1) the terms of the Conditional Solution, including the requirements applicable to GE and you regarding future cleanup activities at the property; and (2) the levels of PCBs and other chemicals remaining at your property.

1. Requirements for Implementing Future Cleanup

As noted above, following completion of the soil cleanup actions, the concentrations of PCBs and other chemicals in the soil at your property satisfy the applicable cleanup standards for commercial properties. As a result, no further soil-related actions are required at your property at this time. However, the evaluation and cleanup of your property would not satisfy the standards that would apply if the property were ever used for residential purposes. Accordingly, a Conditional Solution will be implemented for your property, effective immediately, to address future uses and activities at the property. Under the Consent Decree requirements for Conditional Solutions, this means the following:

If, in the future, you should decide to change the current use of your property to residential or similar use or to perform construction or excavation activities, and if that new or changed use is legally permissible, GE will conduct additional cleanup actions at your property, if necessary, to be protective for such future use, provided that certain conditions specified in the Consent Decree are met. Specifically, those conditions require that you satisfy the following criteria:

- First, you must show that you have submitted a plan to the appropriate governmental authorities to authorize the future use (if such a plan or authorization is necessary for the use) and that such plan (if required) has been approved by the governmental authorities. Such governmental approvals may include zoning approval, Conservation Commission approval, building permits, and any other necessary approvals.
- In addition, you must provide to EPA and to GE (directly or through EPA) "other documented evidence of a commitment to such use," such as, for example, evidence of financing or other financial assurance for the project, other plans for implementing the project (such as architectural plans, contracts for performance of the project, or other similar plans), or an affidavit that you intend to go forward with the project or other change in use if the necessary cleanup actions are taken.

If you provide this required documentation and EPA determines that you have satisfied the above criteria and that cleanup is necessary to allow such use, EPA will notify GE. GE will then be required to submit work plans for any necessary additional sampling and/or cleanup actions to allow such use and, upon EPA approval, to implement those plans. Such cleanup may include soil removal or other remediation as necessary to meet the applicable cleanup standards under the Consent Decree for the new use, or may include, for activities that involve excavation or off-property disposition of soils, actions to ensure the proper excavation, management, and disposition of such soils. While GE is required to conduct such additional cleanup actions in the event that the above conditions are met, GE also retains any rights it may have under the law to seek contribution from others for costs incurred by GE to clean up contaminants not related to GE.

In the event that you sell your property, these same requirements will continue to apply, provided that the successor owner meets the criteria specified above.

In addition, you should be aware that the Consent Decree requires GE to conduct annual inspections of your property to determine whether there have been any changes in activities and uses that would be inconsistent with current uses or would involve certain soil disturbance activities. These inspections may require us to contact you further in the future.

For purposes of providing the documentation described above or if you have any question about this matter, the following are the relevant contact persons:

- For GE:           Richard W. Gates  
                      Remediation Manager  
                      General Electric Company  
                      159 Plastics Avenue  
                      Pittsfield, MA 01201  
                      (413) 448-5909
- For EPA:           Dean Tagliaferro  
                      GE-Pittsfield Team Leader  
                      U.S. Environmental Protection Agency  
                      EPA New England  
                      One Congress Street, Suite 1100 (Mail Code: HBO)  
                      Boston, MA 02114  
                      (617) 918-1282
- For MassDEP:    Susan Steenstrup  
                      Project Coordinator, Special Projects  
                      Bureau of Waste Site Cleanup  
                      Massachusetts Department of Environmental Protection  
                      436 Dwight Street  
                      Springfield, Massachusetts 01103  
                      (413) 755-2264

## 2. Existing Levels of PCBs and Other Chemicals

GE is also required to notify the owner of the remaining levels of PCBs and other chemicals at a property where a Conditional Solution is implemented. For your property, the results of GE's soil sampling were described in prior reports submitted to EPA, copies of which were sent to you.

Under the Consent Decree, GE was required to evaluate the concentrations of various constituents in soil in certain specified depth intervals at your property. For your convenience, the attached Table 1 summarizes, for each of those depth intervals, the average concentrations of PCBs, as well as the other chemicals retained for evaluation after an initial screening step, that GE has calculated to remain at the property. (This table is based on calculations presented in the Conceptual Work Plan.) The attached table also shows that, for PCBs, the current



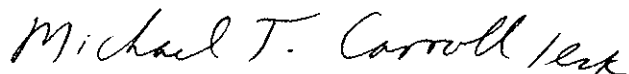
concentration in each relevant depth interval is less than the applicable cleanup standards in the Consent Decree for PCBs at commercial properties. The table further shows that, for another set of constituents, known as polychlorinated dibenzo-*p*-dioxin and polychlorinated dibenzofuran toxicity equivalency quotients (PCDD/PCDF TEQs), the current concentrations are likewise below the Consent Decree applicable cleanup standards for such compounds. Finally, for the remaining chemicals that were retained for evaluation, the table indicates that a risk assessment performed by GE and approved by EPA demonstrated that, under current use conditions, those constituents pose no risk above the risk benchmarks set forth in the Consent Decree.

Therefore, for all of the substances evaluated, your property currently satisfies the Consent Decree standards for commercial properties. You and any successor owners should, however, take into account the existence of these substances on your property in conducting any activities such as excavation or digging in the future. In this connection, EPA has prepared a Fact Sheet relating to future uses and activities at this property. A copy of that Fact Sheet is also attached to this letter.

Finally, you should be aware that GE is also required to notify any entity with an interest in your property, such as the holders of easements, of the Conditional Solution implemented at the property. GE will provide these notification in the near future, with copies to you.

Please call Dick Gates at 413-448-5909 if you have any questions about the information in this letter.

Very truly yours,

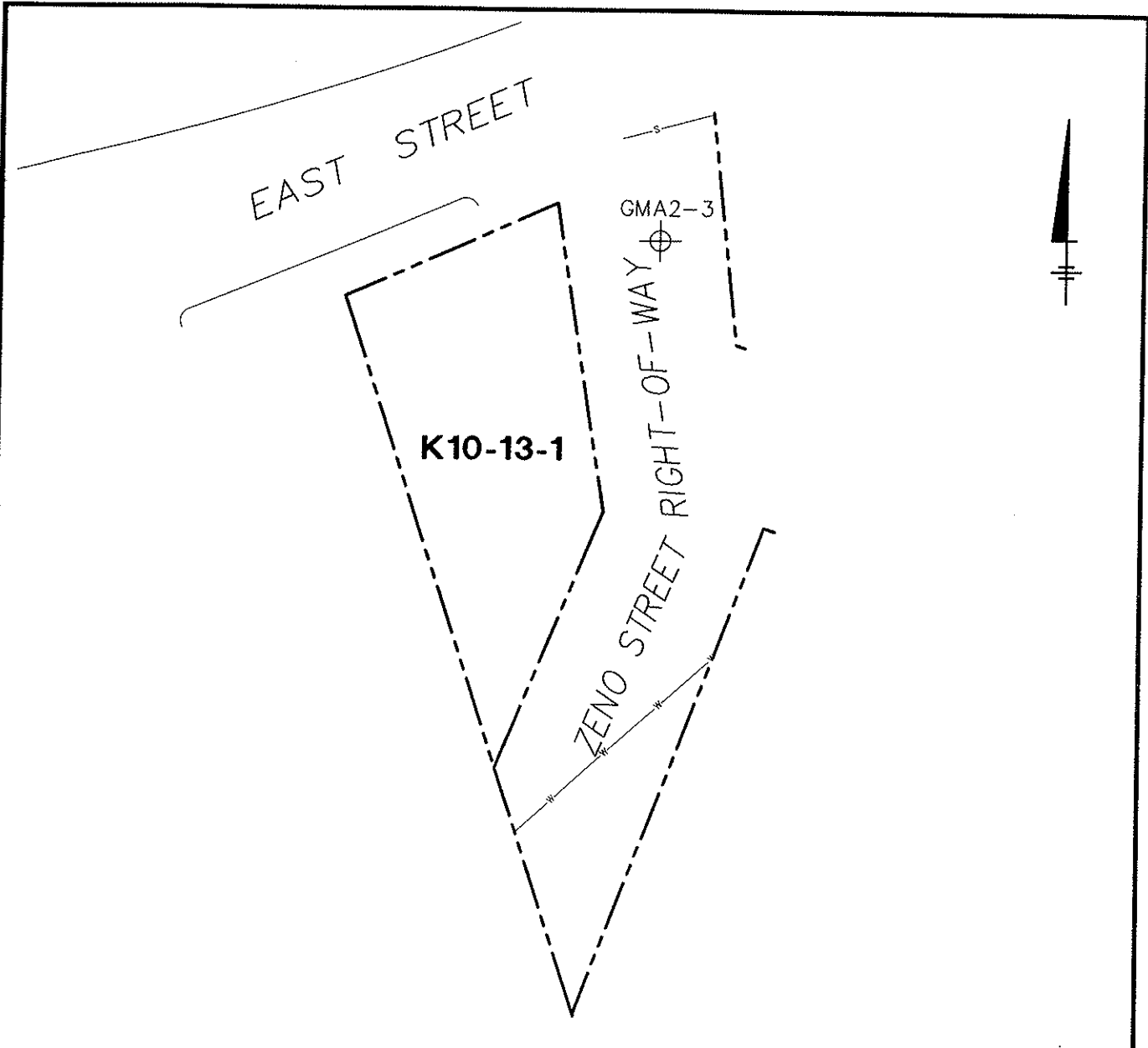


Michael T. Carroll  
Manager, Pittsfield Remediation Programs

Attachments

cc: Dean Tagliaferro, EPA  
Timothy Conway, EPA  
Holly Inglis, EPA  
Anna Symington, MassDEP  
Susan Steenstrup, MassDEP  
Jane Rothchild, MassDEP  
Richard Gates, GE  
Roderic McLaren, GE  
James Bieke, Goodwin Procter

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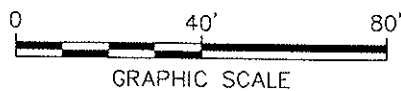


**LEGEND**

- PARCEL BOUNDARY
- K10-13-1** PARCEL ID
- APPROXIMATE SEWER LOCATION
- APPROXIMATE WATER MAIN LOCATION
- GMA2-3 MONITORING WELL LOCATION

**GENERAL NOTES:**

1. BASE MAP MODIFIED FROM SURVEY DRAWINGS NOS. GE-1080-1 (6/25/04) AND GE-1080-3 (11/18/04) BY HILL ENGINEERS, ARCHITECTS AND PLANNERS, INC. AND FROM PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC. - FLOWN IN APRIL 1990.
2. EASEMENTS AND PROPERTY LINES DIGITIZED FROM COPIES OF CITY OF PITTSFIELD TAX ASSESSORS MAPS AND ARE APPROXIMATE.
3. UTILITY LOCATIONS ARE APPROXIMATE, AND ALL UTILITIES MAY NOT BE SHOWN.



GENERAL ELECTRIC COMPANY PITTSFIELD, MASSACHUSETTS <b>FORMER OXBOW AREA J AND K</b>	
<b>FINAL CONDITIONS AT          PARCEL K10-13-1</b>	
 <small>infrastructure, environment, facilities</small>	<b>FIGURE          1</b>

**TABLE 1: RESIDUAL CONCENTRATIONS IN SOIL AT PARCEL K10-13-1 <sup>1</sup>**

Depth Interval (feet below ground)	Constituent Concentration (in parts per million - ppm) <sup>1</sup>				
	PCBs <sup>2</sup>	PCDD/PCDF TEQs <sup>3</sup>	Benzo(a)anthracene <sup>4</sup>	Benzo(a)pyrene <sup>4</sup>	Benzo(b)-fluoranthene <sup>4</sup>
0- to 1-foot depth	0.4	0.00001	0.5	0.4	0.5
0- to 3-foot depth	7.6	0.00008	0.7	0.7	0.7
1- to 6-foot depth	8.1	N/A	2.7	2.2	2.0
0- to 15-foot depth	2.8	0.00008 (for 1-15 ft depth)	1.4	1.1	1.1

Depth Interval (feet below ground)	Dibenzo(a,h)-anthracene <sup>4</sup>	Antimony <sup>4</sup>	Arsenic <sup>4</sup>	Cyanide <sup>4</sup>	Lead <sup>4</sup>
0- to 1-foot depth	0.3	6	9.7	30.2	189
0- to 3-foot depth	0.3	48	10.2	20.3	667
1- to 6-foot depth	0.4	83	9.5	0.3	1865
0- to 15-foot depth	0.3	34	8.5	13.6	772

1. This table includes those chemical constituents that were retained for evaluation at Parcel K10-13-1 (excluding adjacent portion of undeveloped Longview Terrace) after an initial conservative screening step. All concentrations listed are averages except for PCDD/PCDF TEQs, for which the maximum concentration is given. For PCBs, the concentrations shown are pre-cleanup concentrations, since cleanup was not required to address PCBs. For the other constituents, the concentrations shown are those calculated to be present after the soil cleanup.
2. For comparison, the cleanup standards in the Consent Decree for PCBs at commercial properties are 25 ppm for the 0-1 foot and 0-3 foot depths, 200 ppm for the 1-6 foot depth, and 100 ppm for the 0-15 foot depth.
3. For comparison, the cleanup standards under the Consent Decree for PCDD/PCDF TEQs at commercial properties are 0.005 ppm for the 0-1 foot and 0-3 foot depths and 0.02 ppm for the 1-15 foot depth (there are no separate standards for the 1-6 foot or 0-15 foot depth intervals).
4. For substances other than PCBs and PCDD/PCDF TEQs, the Consent Decree allows an area-specific risk assessment to be performed. The area-specific risk assessment performed for these constituents in soils at Parcel K10-13-1, as presented in GE's Conceptual Work Plan and Addendum to Final Work Plan and approved by EPA, shows that these constituents do not pose risks above the risk benchmarks set forth in the Consent Decree.

## FACT SHEET RELATING TO FUTURE PROPERTY USES AND ACTIVITIES

Prepared by the United States Environmental Protection Agency

Mr. Potts:

This Fact Sheet is an attachment to a letter that General Electric Company ("GE") is sending you as a follow-up to the soil cleanup activities that GE performed on your property. The federal Environmental Protection Agency ("EPA") has prepared this Fact Sheet to inform you and successor owners of future uses and activities that you should not conduct on your property due to the levels of remaining contamination.

As GE has described in its letter, for all of the substances evaluated, your property currently satisfies the Consent Decree standards for properties in commercial or recreational use. Because the evaluation and cleanup of your property currently does not allow for unlimited uses, however, you and any successor owners should observe the following regarding your property:

- The property should not be used for residential uses.

- Except for emergency excavations, you should not excavate or dig below three feet of the surface of the ground. You may perform limited excavation and work in the top three feet of the surface of the ground. Please contact EPA and the Massachusetts Department of Environmental Protection ("MassDEP") before excavating or moving any amount of soil below three feet and/or before excavating or moving more than ten (10) cubic yards of soil in the top three feet of the surface of the ground. Ten (10) cubic yards is approximately one-half of a standard dump truck of soil. Also, please contact EPA and MassDEP after any emergency excavations.

- A groundwater monitoring well is located on your property. This well, which is shown on Figure 1 attached to GE's letter, should not be disturbed in any manner, such as through digging or excavation work.

- Please contact GE, EPA, and the MassDEP before disposing of any soil off of the property. Governmental regulations may restrict the off-site disposal of soil from your property.

- Please contact GE before any subsurface utility excavations for any new or existing utilities. Under the Consent Decree, GE is required to ensure that the spatial average PCB concentration of any utility backfill material is at or below 25 parts per million of PCBs.

As required by the Consent Decree, if, in the future, you decide to change the current use of your property to residential use or to expand your business or to perform construction or excavation activities, and if that new or changed use is legally permissible, GE will conduct additional cleanup actions at your property, if necessary, to be protective of such future use, provided that

certain conditions specified in the Consent Decree are met. Please refer to the letter from GE for more information.

If you have any questions about this Fact Sheet, please call Dean Tagliaferro, of EPA, at 413-236-0969, or Susan Steenstrup, Special Projects Coordinator, MassDEP, at 413-784-1100.

ARCADIS

Conditional Solution Notice Letter  
to Encumbrance Holder Mayor  
James Ruberto dated July 17,  
2007



GE  
159 Plastics Avenue  
Pittsfield, MA 01201  
USA

July 17, 2007

The Honorable James Ruberto  
Mayor  
City Hall  
70 Allen Street  
Pittsfield, MA 01201

**Re: Properties at Certain Former Oxbow Areas with Conditional Solutions**

Dear Mayor Ruberto:

This letter relates to a number of properties located at certain Former Oxbow Areas (as defined in the Consent Decree for the GE-Pittsfield/Housatonic River Site) near the GE Facility in Pittsfield. These properties consist of several non-residential properties at which "Conditional Solutions" have been implemented under the Consent Decree and on which it appears, based on our review of the title records, that the City of Pittsfield holds or may hold easements or other property interests. The specific properties to which this letter relates and the type(s) of interests that our review of the title records indicates that the City holds or may hold in them are as follows:

At Lyman Street Area

- Tax Parcels I9-4-14 and I9-4-19 (commonly owned properties on Cove Street and East Street) – City easement for river improvements
- Tax Parcel I9-4-201 (10 Lyman Street) – City flood protection easement, lease to City acting through its School Department, mortgage held by City through its Department of Community Development
- Tax Parcels I9-4-25, I9-4-202, and I9-4-203 (commonly owned properties on East and Lyman Streets) – City drain pipe and water pipe easements, as well as flood protection easement and easement for river improvements

At Newell Street Area II

- Tax Parcels J9-23-6 and J8-23-8 (commonly owned utility properties on Newell and Sackett Streets) – City sewer easements

At Former Oxbow Areas A and C

- Tax Parcels I8-23-6, I9-5-1, and I9-5-2 (commonly owned properties on Elm, Mystic, and Day Streets) – several City sewer easements and City drain pipe easements, as well as flood protection easement

- Tax Parcel I8-23-10 (119 Elm Street) – City easement (type unspecified)

At Former Oxbow Area J

- Tax Parcel K10-11-1 (1330 East Street) – City easement for river relocation and disposal of excavated materials
- Tax Parcel K10-11-2 (1350 East Street) – City sewer easements
- Tax Parcel K10-11-3 (on East Street) – City sewer easement
- Tax Parcel K10-13-1 (on East Street) – City easement for river relocation and disposal of excavated materials

Pursuant to the Consent Decree, GE conducted sampling of the soils at these properties for polychlorinated biphenyls (PCBs) and other chemicals to determine whether soil cleanup actions would be necessary to meet the cleanup standards established in the Consent Decree. Based on an evaluation of the sampling results, GE conducted soil cleanup actions at all of these properties except Parcel I8-23-10, consisting of the removal and replacement of certain soil (and, at Parcels J9-23-6 and J8-23-8, the installation of engineered barriers) to achieve the standards set forth in the Consent Decree for the pertinent types of non-residential properties. For Parcel I8-23-10, cleanup was not necessary to meet those standards. However, for all of these properties (except for a portion of Parcel I9-4-201), the evaluation and/or cleanup of the properties would not satisfy the standards that would apply if the properties were ever converted to certain less restrictive (e.g., residential) uses. In this situation, since these property owners did not elect to execute deed restrictions known as Grants of Environmental Restrictions and Easements (EREs), the Consent Decree requires implementation of a Conditional Solution to address future uses and activities at the properties.

Under the Consent Decree, GE is required to provide notice to the City, as the holder of an interest in these properties, that a Conditional Solution has been implemented at these properties. The Conditional Solutions for these properties are described in letters, dated June 21, 2007, from GE to each of these properties owners (with a follow-up letter, dated July 13, 2006, to the owner of Parcels J9-23-6 and J8-23-8). Copies of these letters are enclosed. As discussed in those letters, while each of these properties currently meets the standards that have been determined to be protective for its current uses, GE is required to conduct additional cleanup actions at such a property in the future if certain conditions, as described in those letters, are met. In this regard, GE retains any rights it may have under the law to seek contribution from others for costs incurred by GE to clean up contaminants not related to GE.

The enclosed letters also describe the levels of PCBs and other chemicals that remain in the soils at the properties. The City and its contractors should be aware that these substances remain in the soils at the properties and should take such substances into account when conducting activities, such as excavation and/or digging, on its easements (or other interests) on the properties. A Fact Sheet prepared by EPA relating to future uses and activities is attached to each of the letters to the property owners. Before taking any action on any of these properties, the Fact Sheet for that property should be reviewed carefully as these Fact Sheets contain certain restrictions regarding the use of the properties.

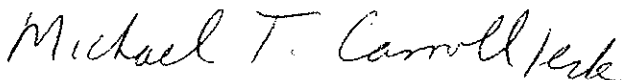


July 17, 2007

Page 3

Please call me or Dick Gates of my staff if you have any questions about the information in this letter or the enclosed letters.

Very truly yours,



Michael T. Carroll  
Manager, Pittsfield Remediation Programs

Enclosures

cc: Jeffrey Bernstein, BCK Law  
Teresa Bowers, Gradient  
Bruce Collingwood, Commissioner of Public Works, City of Pittsfield  
City of Pittsfield School Department (with letter for Parcel I9-4-201 only)  
City of Pittsfield Department of Community Development (with letter for Parcel I9-4-201 only)  
Owners of Above-Listed Properties\*  
Dean Tagliaferro, EPA\*  
Timothy Conway, EPA\*  
Holly Inglis, EPA\*  
Anna Symington, MassDEP\*  
Susan Steenstrup, MassDEP\*  
Jane Rothchild, MassDEP\*  
Richard Gates, GE\*  
Roderic McLaren, GE\*  
James Bieke, Goodwin Procter LLP\*  
Anthony Massimiano, George, DiGregorio, Massimiano & McCarthy\*

\* Without enclosures

ARCADIS

Conditional Solution Notice Letter  
to Encumbrance Holder Bobby  
Hudpuckers, LLC dated July 17,  
2007



GE  
159 Plastics Avenue  
Pittsfield, MA 01201  
USA

July 17, 2007

Bobby Hudpuckers, LLC  
1350 East Street  
Pittsfield, MA 01201

**Re: Tax Parcel No. K10-11-2 (1350 East Street), Pittsfield, MA**

Dear Sir or Madam:

Our review of the title records for the above-referenced property, which is owned by the Charles C. Rice, Sr., Revocable Trust of 1992 (the Rice Trust) and referred to herein as the "Property," indicates that you hold a lease on the Property. Under a Consent Decree that the General Electric Company (GE) has entered into with the U.S. Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MassDEP), and other governmental bodies covering the environmental investigation and cleanup of various properties in and around Pittsfield, including the above-referenced Property, GE is required to provide a notice to the holders of interests in this Property.

Pursuant to the above-mentioned Consent Decree, GE conducted sampling of the soils at the Property for polychlorinated biphenyls (PCBs) and other chemicals to determine whether soil cleanup actions would be necessary to meet the cleanup standards established in the Consent Decree. Based on an evaluation of the sampling results, GE subsequently performed cleanup actions at the Property consisting of the removal and replacement of certain soils. GE performed these activities under the oversight of EPA. The cleanup performed at the Property achieved the applicable standards set forth in the Consent Decree for its current non-residential uses, which include commercial use for a portion of the property and potential recreational use for certain other portions. However, since the evaluation and cleanup of the Property would not meet the standards that would apply if the Property were ever used for residential purposes (for, for the commercial portion, recreational purposes), the Consent Decree requires implementation of an approach known as a Conditional Solution to address future uses and activities at the Property.

The purpose of this letter is to provide notice that a Conditional Solution has been implemented at the Property and to describe what that approach means. These matters are discussed in more detail in a June 21, 2007 letter from GE to the Rice Trust, a copy of which is attached. As discussed in that letter, while the Property meets the standards that have been determined to be protective for its current non-residential uses, GE is required to conduct additional cleanup actions at the Property in the future if certain conditions, as described in the June 21, 2007

July 17, 2007

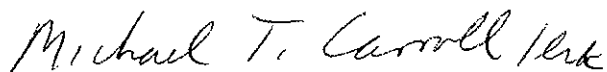
Page 2

letter, are met. In this regard, GE retains any rights it may have under the law to seek contribution from others for costs incurred by GE to clean up contaminants not related to GE.

The attached letter also describes the levels of PCBs and other chemicals that remain in the soils at the Property. You should be aware that these substances remain on the Property and should be taken into account in the event that actions such as excavation or digging are performed on the Property. A Fact Sheet prepared by EPA relating to future uses and activities at the Property is attached to the letter to the Rice Trust. Please review this Fact Sheet carefully as it contains certain restrictions regarding the use of the Property.

Please call Richard Gates of my staff at 413-448-5909 if you have any questions about the information in this letter or the attached letter.

Very truly yours,



Michael T. Carroll  
Manager, Pittsfield Remediation Programs

Attachment

cc: Charles C. Rice, Sr., Revocable Trust of 1992, Pamela Rice, Trustee\*  
Dean Tagliaferro, EPA\*  
Timothy Conway, EPA\*  
Holly Inglis, EPA\*  
Anna Symington, MassDEP\*  
Susan Steenstrup, MassDEP\*  
Jane Rothchild, MassDEP\*  
Richard Gates, GE\*  
Roderic McLaren, GE\*  
James Bieke, Goodwin Procter LLP\*  
Anthony Massimiano, George, DiGregorio, Massimiano & McCarthy\*

\* Without attachment

ARCADIS

Conditional Solution Notice Letter  
to Encumbrance Holder Western  
Massachusetts Electric Company  
dated July 17, 2007



GE  
159 Plastics Avenue  
Pittsfield, MA 01201  
USA

July 17, 2007

Western Massachusetts Electric Company  
Building 111-4  
1 Federal Street  
Springfield, MA 01105

**Re: Tax Parcel No. K10-11-2 (1350 East Street), Pittsfield, MA**

Dear Sir or Madam:

Our review of the title records for the above-referenced property in Pittsfield, which is a non-residential parcel owned by the Charles C. Rice, Sr., Revocable Trust of 1992 (the Rice Trust) and referred to herein as the "Property," indicates that Western Massachusetts Electric Company (WMECo) holds or may hold an easement on the Property for electric transmission lines. Under a Consent Decree that the General Electric Company (GE) has entered into with the U.S. Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MassDEP), and other governmental bodies covering the environmental investigation and cleanup of various properties in and around Pittsfield, including the above-referenced Property, GE is required to provide a notice to the holders of interests in this Property.

Pursuant to the above-mentioned Consent Decree, GE conducted sampling of the soils at the Property for polychlorinated biphenyls (PCBs) and other chemicals to determine whether soil cleanup actions would be necessary to meet the cleanup standards established in the Consent Decree. Based on an evaluation of the sampling results, GE subsequently performed cleanup actions at the Property consisting of the removal and replacement of certain soils. GE performed these activities under the oversight of EPA. The cleanup performed at the Property achieved the applicable standards set forth in the Consent Decree for its current non-residential uses, which include commercial use for a portion of the property and potential recreational use for certain other portions. However, since the evaluation and cleanup of the Property would not meet the standards that would apply if the Property were ever used for residential purposes (for, for the commercial portion, recreational purposes), the Consent Decree requires implementation of an approach known as a Conditional Solution to address future uses and activities at the Property.

The purpose of this letter is to provide notice that a Conditional Solution has been implemented at the Property and to describe what that approach means. These matters are discussed in more detail in a June 21, 2007 letter from GE to the Rice Trust, a copy of which is attached. That

July 17, 2007

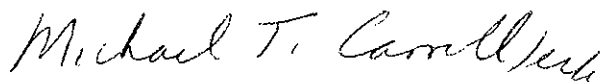
Page 2

letter identifies and depicts the Property. It also explains that, while the Property meets the standards that have been determined to be protective for its current non-residential uses, GE is required to conduct additional cleanup actions at the Property in the future if certain conditions, as described in that letter, are met. In this regard, GE also retains any rights it may have under the law to seek contribution from others for costs incurred by GE to clean up contaminants not related to GE.

The attached letter also describes the levels of PCBs and other chemicals that remain in the soils at the Property. WMECo should be aware that these substances remain on the Property and should take such substances into account in the event that it should ever take actions, such as excavation or digging, on its easement on the Property. A Fact Sheet prepared by EPA relating to future uses and activities at the Property is attached to the letter to the Rice Trust. Please review this Fact Sheet carefully as it contains certain restrictions regarding the use of the Property.

Please call Richard Gates of my staff at 413-448-5909 if you have any questions about the information in this letter or the attached letter.

Very truly yours,



Michael T. Carroll  
Manager, Pittsfield Remediation Programs

Attachment

cc: Charles C. Rice, Sr., Revocable Trust of 1992, Pamela Rice, Trustee\*  
Robert Dvorchik, WMECo  
John Tulloch, WMECo  
Salvatore Giuliano, WMECo\*  
Charles J. Nicol, Northeast Utilities\*  
Dean Tagliaferro, EPA\*  
Timothy Conway, EPA\*  
Holly Inglis, EPA\*  
Anna Symington, MassDEP\*  
Susan Steenstrup, MassDEP\*  
Jane Rothchild, MassDEP\*  
Richard Gates, GE\*  
Roderic McLaren, GE\*  
James Bieke, Goodwin Procter LLP\*  
Anthony Massimiano, George, DiGregorio, Massimiano & McCarthy\*

\* Without attachment

ARCADIS

Conditional Solution Notice Letter  
to Encumbrance Holder Western  
Massachusetts Electric Company  
dated July 17, 2007





GE  
159 Plastics Avenue  
Pittsfield, MA 01201  
USA

July 17, 2007

Western Massachusetts Electric Company  
Building 111-4  
1 Federal Street  
Springfield, MA 01105

**Re: Tax Parcel No. K10-11-3 (East Street), Pittsfield, MA**

Dear Sir or Madam:

Our review of the title records for the above-referenced property in Pittsfield, which is a non-residential parcel owned by M. Callahan, Inc. (Callahan) and referred to herein as the "Property," indicates that Western Massachusetts Electric Company (WMECo) holds or may hold an easement on the Property for electric transmission lines. Under a Consent Decree that the General Electric Company (GE) has entered into with the U.S. Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MassDEP), and other governmental bodies covering the environmental investigation and cleanup of various properties in and around Pittsfield, including the above-referenced Property, GE is required to provide a notice to the holders of interests in this Property.

Pursuant to the above-mentioned Consent Decree, GE conducted sampling of the soils at the Property for polychlorinated biphenyls (PCBs) and other chemicals to determine whether soil cleanup actions would be necessary to meet the cleanup standards established in the Consent Decree. Based on an evaluation of the sampling results, GE subsequently performed cleanup actions at the Property consisting of the removal and replacement of certain soils. GE performed these activities under the oversight of EPA. The cleanup performed at the Property achieved the applicable standards set forth in the Consent Decree for its current non-residential uses, which include commercial use for a portion of the property and potential recreational use for another portion. However, since the evaluation and cleanup of the Property would not meet the standards that would apply if the Property were ever used for residential purposes (for, for the commercial portion, recreational purposes), the Consent Decree requires implementation of an approach known as a Conditional Solution to address future uses and activities at the Property.

The purpose of this letter is to provide notice that a Conditional Solution has been implemented at the Property and to describe what that approach means. These matters are discussed in more detail in a June 21, 2007 letter from GE to Callahan, a copy of which is attached. That letter identifies and depicts the Property. It also explains that, while the Property meets the standards

July 17, 2007

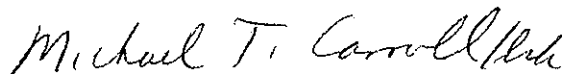
Page 2

that have been determined to be protective for its current non-residential uses, GE is required to conduct additional cleanup actions at the Property in the future if certain conditions, as described in that letter, are met. In this regard, GE retains any rights it may have under the law to seek contribution from others for costs incurred by GE to clean up contaminants not related to GE.

The attached letter also describes the levels of PCBs and other chemicals that remain in the soils at the Property. WMECo should be aware that these substances remain on the Property and should take such substances into account in the event that it should ever take actions, such as excavation or digging, on its easement on the Property. A Fact Sheet prepared by EPA relating to future uses and activities at the Property is attached to the letter to Callahan. Please review this Fact Sheet carefully as it contains certain restrictions regarding the use of the Property.

Please call Richard Gates of my staff at 413-448-5909 if you have any questions about the information in this letter or the attached letter.

Very truly yours,



Michael T. Carroll  
Manager, Pittsfield Remediation Programs

Attachment

cc: M.E. Callahan, President, M. Callahan, Inc.\*  
Robert Dvorchik, WMECo  
John Tulloch, WMECo  
Salvatore Giuliano, WMECo\*  
Charles J. Nicol, Northeast Utilities\*  
Dean Tagliaferro, EPA\*  
Timothy Conway, EPA\*  
Holly Inglis, EPA\*  
Anna Symington, MassDEP\*  
Susan Steenstrup, MassDEP\*  
Jane Rothchild, MassDEP\*  
Richard Gates, GE\*  
Roderic McLaren, GE\*  
James Bieke, Goodwin Procter LLP\*  
Anthony Massimiano, George, DiGregorio, Massimiano & McCarthy\*

\* Without attachment

ARCADIS

Conditional Solution Notice Letter  
to Encumbrance Holder Verizon  
New England, Inc. dated July 17,  
2007



GE  
159 Plastics Avenue  
Pittsfield, MA 01201  
USA

July 17, 2007

Verizon New England, Inc.  
185 Franklin Street  
Boston, MA 02110

**Re: Tax Parcel No. K10-13-1 (1306 East Street), Pittsfield, MA**

Dear Sir or Madam:

Our review of the title records for the above-referenced property in Pittsfield, Massachusetts, which is a vacant parcel owned by the Potts Family Nominee Trust (the Potts Trust) and referred to herein as the "Property," indicates that Verizon New England, Inc. (Verizon) holds an easement on the Property. Under a Consent Decree that the General Electric Company (GE) has entered into with the U.S. Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MassDEP), and other governmental bodies covering the environmental investigation and cleanup of various properties in and around Pittsfield, including the above-referenced Property, GE is required to provide a notice to the holders of interests in this Property.

Pursuant to the above-mentioned Consent Decree, GE conducted sampling of the soils at the Property for polychlorinated biphenyls (PCBs) and other chemicals to determine whether soil cleanup actions would be necessary to meet the cleanup standards established in the Consent Decree. Based on an evaluation of the sampling results, GE subsequently performed cleanup actions at the Property consisting of the removal and replacement of certain soils. GE performed these activities under the oversight of EPA. The cleanup performed at the Property achieved the applicable standards set forth in the Consent Decree for its current non-residential use. However, since the evaluation and cleanup of the Property would not meet the standards that would apply if the Property were ever used for residential purposes, the Consent Decree requires implementation of an approach known as a Conditional Solution to address future uses and activities at the Property.

The purpose of this letter is to provide notice that a Conditional Solution has been implemented at the Property and to describe what that approach means. These matters are discussed in more detail in a June 21, 2007 letter from GE to the Potts Trust, a copy of which is attached. That letter identifies and depicts the Property. It also explains that, while the Property meets the standards that have been determined to be protective for its current non-residential use, GE is required to conduct additional cleanup actions at the Property in the future if certain conditions, as described in that letter, are met. In this regard, GE retains any rights it may have under the

July 17, 2007

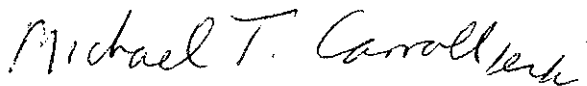
Page 2

law to seek contribution from others for costs incurred by GE to clean up contaminants not related to GE.

The attached letter also describes the levels of PCBs and other chemicals that remain in the soils at the Property. Verizon should be aware that these substances remain on the Property and should take such substances into account in the event that it should ever take actions, such as excavation or digging, on its easement on the Property. A Fact Sheet prepared by EPA relating to future uses and activities at the Property is attached to the letter to the Potts Trust. Please review this Fact Sheet carefully as it contains certain restrictions regarding the use of the Property.

Please call Richard Gates of my staff at 413-448-5909 if you have any questions about the information in this letter or the attached letter.

Very truly yours,



Michael T. Carroll  
Manager, Pittsfield Remediation Programs

Attachment

cc: Potts Family Nominee Trust, Bernard J. Potts, Trustee\*  
David M. Feldman, Esq., Verizon  
William J. Balcerski, Esq., Verizon  
Dean Tagliaferro, EPA\*  
Timothy Conway, EPA\*  
Holly Inglis, EPA\*  
Anna Symington, MassDEP\*  
Susan Steenstrup, MassDEP\*  
Jane Rothchild, MassDEP\*  
Richard Gates, GE\*  
Roderic McLaren, GE\*  
James Bieke, Goodwin Procter LLP\*  
Anthony Massimiano, George, DiGregorio, Massimiano & McCarthy\*

\* Without attachment

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**Appendix I**

Inspection Summary and  
Checklist

**INSPECTION SUMMARY AND CHECKLIST**

**FORMER OXBOW AREAS J AND K**

PARCEL \_\_\_\_\_

**I. GENERAL INFORMATION**

Inspection Date: \_\_\_\_\_  
Conducted By/Phone Number: \_\_\_\_\_  
Weather Conditions: \_\_\_\_\_  
Date of Last Inspection: \_\_\_\_\_

**II. INSPECTION SUMMARY**

1. Confirm that Figures 3 and 4 from the Final Completion Report and the as-built survey drawing included in Appendix C of the Final Completion Report (and any alternative plan proposed by GE) have been reviewed.  
\_\_\_\_\_  
\_\_\_\_\_
2. **Soil Backfill Areas** (Note any physical changes since last inspection; note evidence of any of the following: excessive settlement, soil erosion, surface water ponding, burrows, vehicle ruts, unauthorized excavations, unauthorized uses of areas, erosion around drainage outlets, drainage swales, or edges of paved areas, etc.)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. **Vegetation Area** (Note any physical changes since last inspection; note general condition of vegetative cover [e.g., evidence of stressed/sparse cover], other landscaping items [trees, shrubs, etc.] planted during restoration activities, tree guards, tree cages, and tree stakes; review the restoration planting plan [Figure 4 of the Final Completion Report] and determine the percent survivorship of planted trees and shrubs; and measure and record the size of all trees and shrubs subject to inspection.)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
4. **Areas Potentially Susceptible to Erosion** (Inspect any other areas that are potentially subject to erosion as a result of the remediation, including drainage outlets, drainage swales, and edges of pavement located within the limits of the soil removal areas, and note evidence of any erosion. Include, where relevant, an inspection of the riverbank areas lined with riprap following remediation activities on Parcels K10-11-3 and K10-11-5; verify the integrity of these structures.)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
5. **Paved Area Subject to Inspection** (Inspect the paved area on Parcel K10-11-5 that is identified on Figure 3 of the Final Completion Report, and note evidence of any locations where the pavement is broken up and/or missing and soil is clearly visible.)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
6. **Other Observations** (Confirm that repair/maintenance measures identified during prior inspection have been performed; note any other general observations, including parcel-specific restoration activities.)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**III. FOLLOW-UP MAINTENANCE AND REPAIR ACTIVITIES**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ATTACH ADDITIONAL INFORMATION AS APPROPRIATE**

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**Appendix J**

Conditional Solution Annual  
Inspection Checklist



**CONDITIONAL SOLUTION ANNUAL INSPECTION CHECKLIST FOR FORMER OXBOW AREAS J AND K**

**PARCEL NUMBER** \_\_\_\_\_

**DOCUMENT REVIEW**

Conducted By: \_\_\_\_\_  
Representing: \_\_\_\_\_

Phone Number: \_\_\_\_\_  
Review Start Date: \_\_\_\_\_

1.  Check here to confirm that the description of the Conditional Solution for this property in the Final Completion Report, the as-built survey drawings included in Appendix C of the Final Completion Report (and any alternative plan proposed by GE for the comparison described in Item 5 on next page), and any subsequent work plan(s) approved and implemented pursuant to Paragraph 35 of the Consent Decree have been reviewed.
  
2.  Check here to confirm that the most recent property records from the Pittsfield Tax Assessor's Office and the property deed at the Berkshire Middle District Registry of Deeds for this property have been reviewed.
  
3. Has there been a change in ownership of this property?  
 No  
 Yes - If yes, list the new owner's name and mailing address below and indicate whether a notice of the Conditional Solution has been or will be sent to the new owner.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
  
4. Review Completed Date: \_\_\_\_\_

**VISUAL SITE INSPECTION**

Conducted By: \_\_\_\_\_  
Representing: \_\_\_\_\_

Phone Number: \_\_\_\_\_  
Inspection Start Date: \_\_\_\_\_

1. List other individuals and their company/agency that were present during the visual site inspection.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
  
2. Is there any visual evidence of changes in activities and uses of the property since the last inspection that are potentially inconsistent with the land use for which the Conditional Solution was implemented?  
 No  
 Yes - If yes, describe below.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
  
3. Is there any visual evidence of installation of a new utility or repair or replacement of an existing utility that involved disturbance of soil within the property since the last inspection?  
 No  
 Yes - If yes, describe below and show the location(s) of such activity on a plan.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CONDITIONAL SOLUTION ANNUAL INSPECTION CHECKLIST FOR FORMER OXBOW AREAS J AND K**

4. Is there any visual evidence of excavations, construction, or other activities or conditions that resulted in the disturbance of 10 cubic yards of soil or greater, regardless of depth, within the property?

No  
 Yes

- If yes, describe below and show the location(s) of such activity on a plan.

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5. If any of the conditions listed in the responses to Questions 3 and 4 appears to have altered the surface grade of the property compared to the surface grade shown on the as-built survey drawings included in Appendix C of the Final Completion Report (or an alternative, more recent plan proposed by GE), identify the approximate area/location(s) of such grade change on a plan and compare the new surface grade in such area(s) to the surface grade in the above-listed drawings and/or plan. (If GE proposes use of an alternative plan for this comparison, include a copy of that plan and describe the rationale for its proposed use.)

6. Inspection Completed Date: \_\_\_\_\_