01-0505

Corporate Environmental Programs
General Electric Company
100 Woodlawn Avenue, Pittsfield, MA 01201

Transmitted Via Overnight Courier

July 30, 2002

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

Re: **GE-Pittsfield/Housatonic River Site**
Groundwater Management Area 2 (GECD320)
Baseline Groundwater Quality Interim Report for Spring 2002

Dear Mr. Olson:

In accordance with GE's Addendum to the Baseline Monitoring Program Proposal for Groundwater Management Area 2, enclosed is the *Groundwater Management Area 2 Baseline Groundwater Quality Interim Report for Spring 2002.* This report summarizes baseline monitoring program activities and presents the results of the groundwater sampling and analysis performed to date at Groundwater Management Area 2.

Please call Andrew Silfer or me if you have any questions regarding this report.

Sincerely,

BLASLAND, BOUCK & LEE, INC.

Richard W. Gates / DAJ

Richard W. Gates
Remediation Project Manager

DAJ/nls
Enclosure

cc: Michael Nalipinski, EPA
Tim Conway, EPA (cover letter only)
Holly Inglis, EPA
K.C. Mitkevicius, USACE
Dawn Jamros, Weston
Alan Weinberg, MDEP (cover letter only)
Robert Bell, MDEP (cover letter only)
Susan Steenstrup, MDEP (2 copies)
Susan Keydel, MDEP
Thomas Angus, MDEP (cover letter only)
Mayor Sara Hathaway, City of Pittsfield
Pittsfield Commissioner of Public Health
Thomas Hickey, Director, PEDA
Jeffery Bernstein, Bernstein,
Cushner & Kimmel
Theresa Bowers, Gradient
Nancy E. Harper, MA AG
Dale Young, MA EOEA
Michael Carroll, GE (cover letter only)
Andrew Silfer, GE
Rod McLaren, GE (cover letter only)
James Nuss, BBL
James Bieke, Shea & Gardner
John Ciampa, SPECTRA
Property Owner - Parcel K10-10-3
Property Owner - Parcel K10-10-4
Property Owner - Parcel K10-10-5/-6
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 Repositories

REPORT

Groundwater Management Area 2 Baseline Groundwater Quality Interim Report for Spring 2002

General Electric Company
Pittsfield, Massachusetts

July 2002

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

Table of Contents

Tables

Figures

Appendices

1. Introduction

1.1 General

On October 27, 2000, a Consent Decree (CD) executed in 1999 by the General Electric Company (GE), the United States Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MDEP), and several other government agencies was entered by the United States District Court for the District of Massachusetts. The CD governs (among other things) the performance of response actions to address polychlorinated biphenyls (PCBs) and other hazardous constituents in soil, sediment, and groundwater in several Removal Action Areas (RAAs) located in or near Pittsfield, Massachusetts that collectively comprise the GE-Pittsfield/Housatonic River Site (the Site). For groundwater and non-aqueous-phase liquid (NAPL), several RAAs at and near the GE Pittsfield facility have been divided into five separate Groundwater Management Areas (GMAs). These GMAs are described, together with the Performance Standards established for the response actions at and related to them, in Section 2.7 of the *Statement of Work for Removal Actions Outside the River* (SOW) (Appendix E to the CD), with further details presented in Attachment H to the SOW (Groundwater/NAPL Monitoring, Assessment, and Response Programs). The present report relates to the Former Oxbows J and K Groundwater Management Area, also known as GMA 2.

In February 2001, GE submitted a *Baseline Monitoring Program Proposal for Former Oxbow Areas J and K Groundwater Management Area* (GMA 2 Baseline Monitoring Proposal). That Proposal summarized the then-available hydrogeologic information for GMA 2, identified several initial field activities, and proposed future groundwater monitoring activities for the baseline monitoring period at this GMA. EPA provided conditional approval of the GMA 2 Baseline Monitoring Proposal by letter of September 6, 2001, and GE subsequently submitted an Addendum to that proposal by letter of September 21, 2001, incorporating the conditions in EPA's letter. Thereafter, during well installation activities, the locations of a couple of the proposed wells were modified due to field conditions, with approval of EPA's contractor, Weston Solutions, Inc.

As part of the baseline monitoring program, GE is required to submit reports on a semi-annual basis to summarize groundwater monitoring results and related activities and, as appropriate, propose modifications to the monitoring program. This *Groundwater Management Area 2 Baseline Groundwater Quality Interim Report for Spring 2002* (Spring 2002 GMA 2 Groundwater Quality Report) presents the results of groundwater measurements collected at GMA 2 in January 2002 and April 2002, groundwater sampling and analysis performed at this GMA in April 2002, and certain other groundwater characterization activities performed as part of this program.

1.2 Background Information

As discussed above, the CD and the SOW provide for the performance of groundwater-related Removal Actions at the GMAs. GMA 2 includes Former Oxbow Areas J and K, which are located adjacent to the Housatonic River approximately 2,500 feet upstream of the Newell Street Bridge (Figures 1 and 2). Consistent with a February 2002 modification to the CD, Former Oxbow Area J encompasses an area of approximately 6 acres generally located north of the Housatonic River, south of East Street, and between Fasce Street and Commercial Street. Former Oxbow Area K encompasses an area of approximately 2.5 acres south of the Housatonic River, across from the eastern portion of Former Oxbow Area J and generally to the northeast of Ventura Avenue.

Certain portions of this GMA originally consisted of land associated with oxbows or low-lying areas of the Housatonic River. Rechannelization and straightening of the Housatonic River in the early 1940s by the City of Pittsfield and United States Army Corps of Engineers 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.

As set forth in the GMA 2 Baseline Monitoring Proposal Addendum, the baseline groundwater monitoring program at this GMA was required to involve a total of 12 monitoring wells (including two existing wells and 10 new wells) and a river staff gauge. All of these wells are to be monitored for groundwater elevations and 11 of them are to be sampled for certain groundwater quality parameters. As discussed further in Section 2, the 10 new monitoring wells and the river staff gauge were installed as part of initial GMA 2 baseline activities, although the locations of two new wells were modified in the field, with Weston approval, due to topographical conditions. Following installation, well development was conducted at the new wells. All 12 monitoring wells in the program, plus one other existing well, were monitored in spring 2002 to determine groundwater elevation and flow direction, and the water elevation of the Housatonic River at the west side of GMA 2 (at an existing footbridge) was measured at the staff gauge. In addition, the 11 wells subject to groundwater sampling were sampled for analysis of PCBs and certain groups of non-PCB constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethylvinyl ether, and 1,2-diphenyhydrazine (Appendix IX+3). Finally, hydraulic conductivity testing was performed at the 10 new wells in the program. NAPL has not been found within GMA 2; however, monitoring for any presence of NAPL in groundwater is performed as part of the baseline monitoring program.

1.3 Format of Document

The remainder of this report is presented in five sections. Section 2 describes the groundwater-related activities performed at GMA 2 in spring 2002. Section 3 presents the analytical results obtained during the spring 2002 sampling event performed in April 2002. Section 4 provides a summary of the groundwater quality Performance Standards identified in the CD and SOW and provides an assessment of the results of the spring 2002 activities, including a general comparison to those Performance Standards. Section 5 proposes certain modifications to the current baseline groundwater monitoring program. Finally, Section 6 presents the schedule for future field and reporting activities related to GMA 2.

2. Field and Analytical Procedures

2.1 General

The activities conducted as part of the baseline groundwater monitoring program and summarized herein primarily involved well installations, groundwater level measurements, and groundwater sampling and analysis at several locations within GMA 2. Field procedures used to collect and analyze groundwater samples, and to measure site groundwater levels on two occasions, are discussed in this section. In addition, information regarding well installation, development, and hydraulic conductivity (slug) testing at certain of the wells at GMA 2 are provided in this section. All activities were performed in accordance with GE's approved *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP).

2.2 Well Installation and Hydrogeologic Activities

Initial activities at GMA 2 included the installation and development of 10 new monitoring wells and the installation of a staff gauge in the river between the dates of October 9, 2001 and January 30, 2002. These new wells are identified as GMA2-1 through GMA2-9 and J-1R. During the installation of these wells, the locations of two of the wells -- GMA2-6 and GMA2-7 -- had to be modified somewhat from the locations proposed in the GMA 2 Baseline Monitoring Proposal Addendum because topographical conditions precluded well installations at the proposed locations. These modifications were approved by Weston on EPA's behalf. The locations of the 10 new wells and staff gauge are shown on Figure 2, along with the locations of the three existing wells at this GMA (MW-1 and MW-2 which are included in the baseline program, and MW-3 which is not included in the baseline program but was monitored for water elevations and flow in spring 2002 for informational purposes). Table 1 shows the survey data and well construction details for the 10 new wells, together with the survey data and available well construction details for the three existing wells and survey data for the staff gauge. Well logs for the new wells are presented in Appendix A.

Groundwater elevation monitoring activities were performed in January and April 2002. These activities included collecting groundwater level data at the 10 new wells and three existing wells and measuring the river elevation at the staff gauge. These data are presented in Table 2. The January and April 2002 groundwater elevation data were used to prepare groundwater elevation contour maps (Figures 3 and 4, respectively). As shown on these figures, the interpreted groundwater flow direction is generally toward the Housatonic River on the north and south sides of the river. As depicted on Figures 3 and 4, the hydraulic gradient within GMA 2 is

fairly consistent across Former Oxbow Areas J and K, with the horizontal component decreasing towards the Housatonic River.

The first semi-annual groundwater sampling event for GMA 2 was performed on April 15-17, 2002 at the 11 wells subject to such sampling (the 10 new wells plus one existing well, MW-2). Field sampling data associated with these activities are presented in Appendix B, while the results are described in several tables and within the remainder of this document.

Hydraulic conductivity testing was performed on July 16 and 17, 2002 at the 10 new wells at GMA 2. The observed hydraulic conductivities ranged from 2.816E-03 centimeters per second (cm/sec) at well GMA2-9 to 4.922E-02 cm/sec at well GMA2-6. The results of this testing are summarized in Table 3 and plots of the data for each well tested are provided in Appendix C.

2.3 Turbidity Assessment

Prior to the spring 2002 sampling event at GMA 2, GE conducted an assessment of various sampling equipment to identify possible techniques to reduce the turbidity of the collected groundwater samples. This assessment was performed for several wells located within the Plant Site 1 GMA (GMA 1) as part of the fall 2001 sampling event at that GMA. These approaches included the following:

- Field testing of potential modifications to GE's standard low-flow sampling equipment;
- Alternate methods to collect low turbidity samples from small diameter wells and slow recharging wells;
- Procedures to verify that accurate turbidity data are obtained; and
- Additional development or purging of high turbidity wells.

Based on the results of this assessment, it was determined that collection of all samples using a bladder pump provides the lowest turbidity at small diameter (2-inch) wells such as those at GMA 2. However, peristaltic and submersible pumps also produced acceptable results. In addition, the results indicated that use of a hand-held nephelometer following discharge through the flow-through cell provided the most reliable measurement of turbidity levels. Accordingly, the hand-held nephelometer will be incorporated into subsequent sampling rounds. Additionally, the bladder pumps will be increasingly phased into future sampling but submersible and peristaltic pumps will also continue to be utilized, particularly if acceptable turbidity results are obtained.

2.4 Groundwater Sampling and Analysis

Groundwater samples were collected from 11 groundwater monitoring wells in April 2002. Low-flow sampling techniques using either a bladder, submersible, or peristaltic pump (with a bailer for volatile organic compound [VOC] samples) were utilized for the purging of the wells and collection of groundwater samples during this sampling event. Each monitoring well was purged utilizing low-flow sampling techniques until field parameters (including temperature, pH, specific conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) stabilized or the well was pumped dry prior to sample collection. Field parameters were measured in combination with the sampling activities at each monitoring well. A summary of the field parameter data is presented in Table 4 and the field sampling data are presented in Appendix A. A general summary of the field measurement results during the spring 2002 monitoring event is provided below:

PARAMETER	UNITS	RANGE
Turbidity	Nephelometric turbidity units (NTUs)	1.0 – 80.0
Temperature	Degrees Celsius	7.6 – 17.20
pH	Standard pH units	6.45 - 7.32
Specific Conductivity	Millisiemens per centimeter	0.256 – 3.780
Oxidation-Reduction Potential	Millivolts	-128.0 - 93.0
Dissolved Oxygen	Milligrams per liter	0.00 - 7.10

For this sampling event, samples from only two of the 11 monitoring wells had turbidity levels greater than 50 NTU (GMA2-3 at 52 NTU and GMA2-7 at 80 NTU). These results indicate that the sampling and measurement procedures utilized during this sampling event (developed from the turbidity assessment conducted at GMA-1) were generally effective in obtaining low turbidity groundwater samples.

Groundwater samples were submitted to CT&E Environmental Services, Inc. of Charleston, West Virginia, for laboratory analysis. Since all of these 11 wells, except well GMA2-3, are identified as GW-3 wells (as discussed below in Section 4), the samples from those 10 wells were submitted for analysis of the following constituents using the associated EPA methods:

PARAMETER	USEPA METHOD
VOCs	8260B
SVOCs	8270C
Filtered and Unfiltered PCBs	8082
Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans (PCDDs/PCDFs)	8290
Pesticides and Herbicides	8080 and 8151
Filtered and Unfiltered Metals	6010B, 7000A, and 7470A
Cyanide	9014
Sulfide	9034

Since well GMA2-3 is identified only as a GW-2 sentinel/compliance well (as discussed in Section 4), the groundwater sample collected from that well was submitted for analysis of the VOCs listed in GE's FSP/QAPP, as well as five compounds listed as SVOCs in the FSP/QAPP (1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene). The VOCs and five SVOCs were analyzed using EPA Method 8260B in accordance with a letter from GE to EPA dated September 28, 2001.

The results of all these analyses are discussed in Section 3 below.

3. Groundwater Analytical Results

3.1 General

A description of the spring 2002 groundwater analytical results is presented in this section. These data were validated in accordance with the FSP/QAPP. The full, validated data set for spring 2002 is provided in Table 5, while the data validation report for these results is presented in Appendix C.

Prior to validation, the preliminary analytical data from the laboratory were presented in the monthly reports on overall activities at the GE-Pittsfield/Housatonic River Site. In addition, the results were compared to the Method 1 GW-2 and GW-3 standards set forth in the Massachusetts Contingency Plan (MCP) and to the MCP Upper Concentration Limits (UCLs) for groundwater. Tables 6 and 7 provide a comparison of the concentrations of all detected constituents with the groundwater quality Performance Standards established in the CD and SOW, while Table 8 presents a comparison of the concentrations of detected constituents with the UCLs. A general discussion of the recent GMA 2 results relative to the groundwater quality Performance Standards and the UCLs is provided in Section 4.

3.1.1 VOC Results

Groundwater samples from the 11 groundwater quality monitoring wells were analyzed for VOCs during the spring 2002 sampling event. The validated VOC analytical results are summarized in Table 5. VOCs were not detected in eight of the groundwater samples. Low levels of the VOCs trichloroethene (TCE) and tetrachloroethene (PCE) were detected in one or more of the three remaining samples. TCE was detected in samples J-1R and OJ-MW-2, while PCE was detected in sample GMA2-2. Total VOC concentrations ranged from non-detect (in eight samples) to 0.0032 parts per million (ppm).

3.1.2 SVOC Results

Groundwater samples from the 10 GW-3 monitoring wells were analyzed for SVOCs during the spring 2002 sampling event, as described in Section 2.4. In addition, the sample from GW-2 well GMA2-3 was analyzed for select SVOCs, as discussed in Section 2.4. No SVOCs were detected in any of the samples.

3.1.3 PCB Results

Groundwater samples from 10 monitoring wells were analyzed for unfiltered and filtered PCBs as part of the spring 2002 sampling event. The PCB analytical results are summarized in Table 5. For the unfiltered analysis, PCBs were not detected in six groundwater samples, while the maximum PCB concentration among the remaining four samples was 0.00019 ppm. For the filtered samples, PCBs were not detected in nine of the 10 samples. For the remaining well (GMA2-1), a PCB concentration of 0.000072 ppm was detected.

3.1.4 Pesticide/Herbicide Results

Groundwater samples from 10 monitoring wells were analyzed for pesticides and herbicides during the spring 2002 sampling event. The pesticide and herbicide analytical results are summarized in Table 5. No pesticides or herbicides were detected in any of the 10 groundwater samples.

3.1.5 PCDD/PCDF Results

Groundwater samples from ten monitoring wells were analyzed for PCDDs/PCDFs during the spring 2002 sampling event. The PCDD/PCDF analytical results are summarized in Table 5. One or more PCDD/PCDF compounds were observed in nine of the ten groundwater samples. In addition, total Toxicity Equivalency Quotients (TEQs) were calculated for the PCDD/PCDF compounds using the Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO). In calculating those TEQs, the concentrations of individual PCDD/PCDF compounds that were not detected were represented as one-half the analytical detection limit for those compounds. Total TEQs ranged from 1.7×10^{-9} to 2.2×10^{-8} ppm.

3.1.6 Inorganics Results

Groundwater samples from 10 monitoring wells were analyzed for unfiltered and filtered inorganics during the spring 2002 sampling event. The inorganic analytical results for these samples are summarized in Table 5. One or more inorganic constituents were detected in nine of the unfiltered samples. The most commonly observed inorganic constituents in the unfiltered samples were cyanide, detected in seven of these samples (filtered samples were not collected for this analysis), and zinc, also detected in seven unfiltered samples. Zinc was also found to be present in five of the filtered samples.

4. Assessment of Results

4.1 General

Since the spring 2002 monitoring event constitutes the initial sampling event in the GMA 2 baseline monitoring program, the data available at this time do not support any meaningful spatial or temporal assessment of trends in constituent concentrations. Results from subsequent semi-annual baseline sampling events will be used to identify if trends exist or if program modifications are warranted.

4.2 Groundwater Quality Performance Standards

This section describes the Performance Standards applicable to response actions for groundwater at GMA 2. Those Performance Standards are set forth in Section 2.7 and Attachment H (Section 4.1) of the SOW. In general, the Performance Standards for groundwater quality are based on the groundwater classification categories designated in the MCP. The MCP identifies three potential groundwater categories that may be applicable to a given site. One of these, GW-1 groundwater, applies to groundwater that is a current or potential source of potable drinking water. None of the groundwater at any of the GMAs at the Site is classified as GW-1. However, the remaining MCP groundwater categories are applicable to GMA 2 and are described below:

- GW-2 groundwater is defined as groundwater that is a potential source of vapors to the indoor air of buildings. Groundwater is classified as GW-2 if it is located within 30 feet of an existing occupied building and has an average annual depth to groundwater of 15 feet or less. Under the MCP, volatile constituents present within GW-2 groundwater represent a potential source of organic vapors to the indoor air of the overlying occupied structures.

- GW-3 groundwater is defined as groundwater that discharges to surface water. By MCP definition, all groundwater at a site is classified as GW-3 since it is considered to ultimately discharge to surface water. In accordance with the CD and SOW, all groundwater at GMA 2 is considered as GW-3.

The CD and the SOW allow for the establishment of standards for GW-2 and GW-3 groundwater at the GMAs through use of one of three methods, as generally described in the MCP. The first, known as Method 1, consists of the application of pre-established numerical "Method 1" standards set forth in the MCP for both GW-2 and

GW-3 groundwater (310 CMR 40.0974). These "default" standards have been developed to be conservative and will serve as the initial basis for evaluating groundwater at GMA 2. The current MCP Method 1 GW-2 and GW-3 standards for the constituents detected in the spring 2002 sampling event are listed in Tables 6 and 7, respectively. (In the event of any discrepancy between the standards listed in these tables and those published in the MCP, the latter will be controlling.) For constituents for which Method 1 standards do not exist, the MCP provides procedures, known as Method 2, for developing such standards (Method 2 standards) for both GW-2 and GW-3 groundwater. For such constituents that are detected in groundwater during the baseline monitoring program, Attachment H to the SOW states that in the Baseline Monitoring Program Final Report, GE must propose to develop Method 2 standards using the MCP procedures or alternate procedures approved by EPA, or provide a rationale for why such standards need not be developed. For constituents whose concentrations exceed the applicable Method 1 (or Method 2) standards, GE may develop and propose to EPA alternative GW-2 and/or GW-3 standards based on a site-specific risk assessment. This procedure is known as Method 3 in the MCP. Upon EPA approval, these alternative risk-based GW-2 and/or GW-3 standards may be used in lieu of the Method 1 (or Method 2) standards. Of course, whichever method is used to establish such groundwater standards, GW-2 standards will be applied to GW-2 groundwater and GW-3 standards will be applied to GW-3 groundwater.

Based on consideration of the above points, the specific groundwater quality Performance Standards for GMA 2 consist of the following:

1. At monitoring wells designated as compliance points to assess GW-2 groundwater (i.e., groundwater located at an average depth of 15 feet or less from the ground surface and within 30 feet of an existing occupied building), groundwater quality shall achieve any of the following:

   (a) The Method 1 GW-2 groundwater standards set forth in the MCP (or, for constituents for which no such standards exist, Method 2 GW-2 standards once developed, unless GE provides and EPA approves a rationale for not developing such Method 2 standards);

   (b) Alternative risk-based GW-2 standards developed by GE and approved by EPA as protective against unacceptable risks due to volatilization and transport of volatile chemicals from groundwater to the indoor air of nearby occupied buildings; or

(c) A condition, based on a demonstration approved by EPA, in which constituents in the groundwater do not pose an unacceptable risk to occupants of nearby occupied buildings via volatilization and transport to the indoor air of such buildings.

2. Groundwater quality shall ultimately achieve the following standards at the perimeter monitoring wells designated as compliance points for GW-3 standards:

(a) The Method 1 GW-3 groundwater standards set forth in the MCP (or, for constituents for which no such standards exist, Method 2 GW-3 standards once developed, unless GE provides and EPA approves a rationale for not developing such Method 2 standards); or

(b) Alternative risk-based GW-3 standards proposed by GE and approved by EPA as protective against unacceptable risks in surface water due to potential migration of constituents in groundwater.

These Performance Standards are to be applied to the results of the individual monitoring wells included in the monitoring program. Certain of the monitoring wells have been selected as the potential compliance points for attainment of the Performance Standards identified above. These wells were identified in the GMA 2 Baseline Monitoring Proposal Addendum and are described further in Sections 4.3.1 (for GW-2 wells) and 4.3.2 (for GW-3 wells).

4.3 Groundwater Quality

For the purpose of generally assessing current groundwater conditions, the analytical results from the spring 2002 groundwater sampling event were compared to the groundwater Performance Standards for GMA 2. These Performance Standards are described in Section 4.2 above, and are currently based (on a well-specific basis) on the MCP Method 1 GW-2 and/or GW-3 standards. The following subsections discuss the spring 2002 groundwater analytical results in relation to these Performance Standards, as well as in relation to the MCP UCLs for groundwater.

4.3.1 Groundwater Results Relative to GW-2 Performance Standards

Four monitoring wells (GMA2-2, GMA2-3, GMA2-5, and MW-2) at this GMA have been initially designated as GW-2 wells and will be compliance points for the GW-2 standards. The detected results for these wells from

the spring 2002 sampling event and a comparison of those results with the applicable MCP Method 1 GW-2 standards are presented in Table 6. As shown in Table 6, none of the spring 2002 sample concentrations from the GW-2 monitoring wells were above the GW-2 Performance Standards. In addition, none of the GW-2 wells exhibited total VOC concentrations above 5 ppm (the level specified in the SOW as a notification level for GW-2 wells and as a trigger level for the proposal of interim response actions).

4.3.2 Groundwater Results Relative to GW-3 Performance Standards

Ten monitoring wells at this GMA (i.e., all wells sampled except GMA2-3) have been designated as GW-3 wells. The spring 2002 groundwater analytical results for all detected constituents from these 10 wells and a comparison of those results with MCP Method 1 GW-3 standards are presented in Table 7. Although that table provides a comparison of the spring 2002 analytical results from all 10 of these monitoring wells with the GW-3 standards, only eight of those wells (i.e., the downgradient GW-3 perimeter wells) have been designated as compliance points for the GW-3 standards. These wells are GMA2-2, GMA2-4, GMA2-6, GMA2-7, GMA2-8, GMA2-9, J-1R, and MW-2.

In comparing the baseline monitoring results to the Method 1 GW-3 standards for PCBs and all inorganics (except cyanide), GE has used the results from the filtered samples. EPA has previously agreed to this approach in a letter to GE dated January 2, 2002 (relating to groundwater monitoring for GE's On-Plant Consolidation Areas). Accordingly, the unfiltered sample results were only utilized for comparison to the MCP UCLs.

The comparisons set forth in Table 7 show that for the spring 2002 sampling round at GMA 2, the only constituent detected at levels above the MCP Method 1 GW-3 standard was cyanide. Cyanide was detected in two unfiltered groundwater samples (from upgradient well GMA2-1 at 0.018 ppm and from downgradient well GMA2-9 at 0.017 ppm) at levels above its GW-3 standard (0.01 ppm).

The SOW requires that interim response actions must be proposed for baseline sampling results which exceed the Method 1 GW-3 standards at downgradient perimeter monitoring wells when (a) such an exceedence had not previously been detected, or (b) there was a previous exceedance of the Method 1 GW-3 standard and the groundwater concentration is greater than or equal to 100 times the GW-3 standard (if the exceedance was not previously addressed). These interim response actions may include: (1) further assessment activities, such as resampling, increasing the sampling frequency to quarterly, additional well installation, and/or continuing the

baseline monitoring program; (2) active response actions; and/or (3) the conduct of a site-specific risk evaluation and proposal of alternative risk-based GW-3 Performance Standards.

There was one downgradient perimeter well (GMA2-9) where the spring 2002 sampling results for cyanide exceeded its Method 1 GW-3 standard. In this situation, together with the facts that (1) this was only the first round of sampling, (2) the detected level of cyanide at this well was only marginally above its GW-3 standard, (3) the result is from an unfiltered sample, (4) a similar exceedence was also found at one upgradient well, and (5) the exceedences are not widespread across the GMA, GE's proposed response to this exceedence is to continue with the baseline monitoring program. In doing so, however, as further discussed in Section 5.3, GE is proposing to collect and analyze filtered (as well as unfiltered) samples for cyanide analysis to assess the presence of soluble cyanide in groundwater at GMA 2.

4.3.3 Comparison to Upper Concentration Limits

The spring 2002 groundwater analytical results have also been compared with the groundwater UCLs specified in the MCP. These comparisons are presented in Table 8. As shown in that table, none of the detected constituents exceeded their respective UCL.

5. Proposed Program Modifications

5.1 General

This section contains GE's proposed modifications to future baseline monitoring activities. These activities are based on following a review of data collected during the initial round of the baseline program.

5.2 Low-Flow Sampling Procedures

Groundwater sample turbidities measured during the spring 2002 sampling event were well below acceptable level specified in the FSP/QAPP (50 NTU) in all but two monitoring wells sampled. These results, for the most part, show that the use of submersible, bladder, and/or peristaltic pumps can effectively achieve low-turbidity groundwater samples. Therefore, GE will continue to use these types of pumps as its preferred method to collect water samples for laboratory analysis during future sampling events. At wells with relatively higher turbidities (GMA2-3 and GMA2-7), bladder pumps will be the preferred pumps for sampling. Bailers may still be utilized at certain wells if the quantity of water available is insufficient to utilize a low-flow pumping system. However, bailers will no longer be used to collect VOC samples from wells purged with a peristaltic pump. Rather, all samples will be collected via the same pump used during purging.

At wells where low flow rates (i.e., near 0.1 liter per minute) are necessary to collect samples due to turbidity or low recharge issues, GE will utilize bladder pumps for groundwater sampling to the extent practical. During the turbidity assessment performed in spring 2002 at GMA 1, bladder pumps were found to be the most effective equipment to maintain a consistent flow at the lowest pump rates. Although the other pump types (i.e., submersible and peristaltic) did not perform as well as bladder pumps under all conditions, they were found to be fully capable of collecting low turbidity groundwater samples and will continue to be utilized in future sampling rounds.

5.3 Cyanide Analyses

As discussed in Section 4.3.2, analytical results above the MCP Method 1 GW-3 standard for cyanide were detected in the unfiltered samples collected from wells GMA2-1 and GMA2-9. Since this is the initial semi-annual groundwater sampling event for GMA 2, GE's proposed response at this time is to continue the baseline

monitoring program according to its approved schedule. However, in addition to performing analysis of unfiltered samples for cyanide, GE will collect and analyze filtered samples for cyanide as part of future baseline activities in order to assess the presence of soluble cyanide in the groundwater. Collection of unfiltered and filtered samples for cyanide is consistent with the approach used for the other inorganic and PCB analyses.

6. Schedule of Future Activities

6.1 General

This section addresses the schedule for future baseline groundwater monitoring activities and reporting for GMA 2, focusing in particular on the fall 2002 monitoring event.

6.2 Field Activities Schedule

GE will continue its routine quarterly water level monitoring program to assess groundwater flow at GMA 2. The summer 2002 round of groundwater-level measurement will be conducted in July 2002. For that and future groundwater elevation monitoring, well MW-3 will no longer be monitored because that well is not part of the baseline program. The results of the summer 2002 round of measurements will be reported in the upcoming Fall 2002 GMA 2 Groundwater Quality Interim Report.

In accordance with the approved semi-annual monitoring schedule, GE anticipates that the fall 2002 sampling event will take place in October 2002. Other than the collection and analysis of filtered samples for cyanide, no changes in the analytical program are proposed at this time. Prior to performance of these activities, GE will provide EPA with 7 days advance notice to allow the assignment of field oversight personnel.

6.3 Reporting Schedule

GE will submit the Fall 2002 Baseline Groundwater Quality Interim Report for GMA 2 by January 31, 2003, in accordance with the previously approved reporting schedule. GE will also continue to provide the results of the quarterly water level measurements and NAPL monitoring efforts in the appropriate monthly reports on overall activities at the GE-Pittsfield/Housatonic River Site.

Tables

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

TABLE 1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOW AREAS J & K GROUNDWATER MANAGEMENT AREA
MONITORING WELL CONSTRUCTION SUMMARY

Well Number	Survey Coordinates		Well Diameter (inches)	Ground Surface Elevation (feet AMSL)	Measuring Point Elevation (feet AMSL)	Depth to Top of Screen (feet BGS)	Screen Length (feet)	Top of Screen Elevation (feet AMSL)	Base of Screen Elevation (feet AMSL)
	Northing	Easting							
GMA2-1	534402.60	135510.20	2.00	988.30	991.36	13.80	10.00	974.50	964.50
GMA2-2	534264.30	135725.00	2.00	988.10	991.19	12.94	10.00	975.16	965.16
GMA2-3	534303.30	135295.50	2.00	991.59	991.48	8.59	10.00	983.00	973.00
GMA2-4	534167.60	135730.00	2.00	980.30	983.41	5.20	10.00	975.10	965.10
GMA2-5	533956.60	135712.80	2.00	986.11	985.85	5.98	10.00	980.13	970.13
GMA2-6	534296.40	135526.00	2.00	986.30	989.73	10.13	10.00	976.17	966.17
GMA2-7	534452.30	136034.50	2.00	989.84	989.64	8.49	10.00	981.35	971.35
GMA2-8	534235.50	135923.10	2.00	978.70	982.30	4.00	10.00	974.70	964.70
GMA2-9	534006.00	135431.40	2.00	978.10	981.29	4.00	10.00	974.10	964.10
J-1R	534035.60	135266.60	2.00	988.61	988.25	11.55	10.00	977.06	967.06
MW-1	534463.40	136305.70	2.00	990.24	990.03	NA	NA	NA	NA
MW-2	534318.38	136180.30	2.00	991.90	991.63	NA	NA	NA	NA
MW-3	534451.50	136059.70	2.00	994.68	994.47	NA	NA	NA	NA
Staff Gauge	533977.10	135299.50	--	--	971.76	--	--	--	--

NOTES:

1. The listed wells were utilized during fall 2001 for baseline groundwater quality sampling or hydraulic conductivity testing.
2. feet AMSL: feet above mean sea level
3. feet BGS: feet below ground surface
4. -- indicates that a value does not apply.
5. The 0.00-foot mark on the staff gauge corresponds to an elevation of 971.76 feet AMSL.
6. NA indicates that information is not available.

TABLE 2

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOW AREAS J & K GROUNDWATER MANAGEMENT AREA
GROUNDWATER ELEVATION DATA - WINTER AND SPRING 2002

Well Number	Measuring Point Elevation (feet AMSL)	Date Measured	Depth to Water (feet BMP)	Groundwater Elevation (feet AMSL)
GMA2-1	991.36	1/14/2002	15.61	975.75
		4/12/2002	15.32	976.04
GMA2-2	991.19	1/14/2002	17.80	973.39
		4/12/2002	17.07	974.12
GMA2-3	991.48	1/14/2002	15.88	975.60
		4/12/2002	14.89	976.59
GMA2-4	983.41	1/14/2002	9.38	974.03
		4/12/2002	8.59	974.82
GMA2-5	985.85	1/14/2002	10.46	975.39
		4/12/2002	9.49	976.36
GMA2-6	989.73	1/14/2002	15.69	974.04
		4/12/2002	14.09	975.64
GMA2-7	989.64	1/14/2002	15.45	974.19
		4/12/2002	14.49	975.15
GMA2-8	982.30	1/14/2002	8.71	973.59
		4/12/2002	8.05	974.25
GMA2-9	981.29	1/14/2002	8.10	973.19
		4/12/2002	7.38	973.91
J-1R	988.25	1/14/2002	15.21	973.04
		4/12/2002	14.52	973.73
MW-1	990.03	1/14/2002	12.75	977.28
		4/12/2002	11.82	978.21
MW-2	991.63	1/14/2002	14.48	977.15
		4/12/2002	13.90	977.73
MW-3	994.47	1/14/2002	15.92	978.55
		4/12/2002	14.97	979.50
Staff Gauge	971.76	1/14/2002	1.22	970.54
		4/12/2002	1.82	969.94

Notes:

1. feet AMSL - Feet Above Mean Sea Level
2. feet BMP - Feet Below Measuring Point
3. A Staff Gauge reading of 0.00 feet corresponds to an elevation of 971.76 feet AMSL. The Depth to Water value shown above for this gauge refers to feet above/below (+/-) the datum rather than feet BMP.

TABLE 3

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOW AREAS J & K GROUNDWATER MANAGEMENT AREA
HYDRAULIC CONDUCTIVITY RESULTS

Well Number	Date Measured	Hydraulic Conductivity		
		(cm/sec)	(ft/min)	(ft/day)
GMA2-1	7/16/2002	3.683E-03	7.250E-03	10.44
GMA2-2	7/16/2002	4.257E-02	8.380E-02	120.67
GMA2-3	7/16/2002	4.328E-03	8.520E-03	12.27
GMA2-4	7/17/2002	1.411E-02	2.778E-02	40.00
GMA2-5	7/17/2002	4.885E-02	9.616E-02	138.47
GMA2-6	7/16/2002	4.922E-02	9.689E-02	139.52
GMA2-7	7/16/2002	3.215E-02	6.329E-02	91.13
GMA2-8	7/17/2002	2.863E-02	5.636E-02	81.16
GMA2-9	7/17/2002	2.816E-03	5.543E-03	7.98
J-1R	7/17/2002	NC	NC	NC

Notes

1. Hydraulic conductivities were determined by applying the Bouwer-Rice solution for unconfined aquifers using AQTESOLV software.
2. NC - Not calculated, well J-1R recharged in approximately 5.5 seconds; therefore; an accurate hydraulic conductivity value could not be determined.

TABLE 4

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOW AREAS J & K GROUNDWATER MANAGEMENT AREA
FIELD PARAMETER MEASUREMENTS - SPRING 2002

Well Number	Turbidity (NTU)	Temperature (degrees Celsius)	pH (Standard Units)	Specific Conductivity (mS/cm)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)
GMA 2-1	32.0	7.60	7.32	0.755	-57	0.92
GMA 2-2	4.0	13.02	7.08	0.742	60	5.78
GMA 2-3	52.0	16.15	6.87	3.780	24	3.49
GMA 2-4	2.0*	8.84	6.91	0.467	-128	0.00
GMA 2-5	2.0	11.32	7.32	0.592	48	7.10
GMA 2-6	17.0	7.95	6.70	2.020	-38	0.00
GMA 2-7	80.0	12.23	6.83	2.390	93	4.30
GMA 2-8	7.0	17.20	7.11	0.397	-124	0.08
GMA 2-9	1.0	10.10	6.45	0.256	69	3.45
J-1R	50.0	11.70	6.71	1.510	63	0.00
MW-1	NM	NM	NM	NM	NM	NM
MW-2	2.0	16.76	6.85	1.020	-102	5.15
MW-3	NM	NM	NM	NM	NM	NM

Notes:

1. Measurements collected during spring 2002 groundwater sampling event performed between April 15 and 17, 2002.
2. Well parameters were monitored continuously during purging by low-flow techniques. Final parameter readings are presented.
3. NTU - Nephelometric Turbidity Units
4. mS/cm - Millisiemens per centimeter
5. mV - Millivolts
6. mg/L - Milligrams per liter (ppm)
7. * - Turbidity meter appears to have malfunctioned.
8. NM - Not Measured

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA2-1 04/15/02	GMA2-2 04/15/02	GMA2-3 04/15/02	GMA2-4 04/17/02	GMA2-5 04/17/02
Volatile Organics					
1,1,1,2-Tetrachloroethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,1-Trichloroethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2,2-Tetrachloroethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2-Trichloroethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethene	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromo-3-chloropropane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromoethane	ND(0.0010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dichloropropane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,4-Dioxane	ND(0.20)	ND(0.20) [ND(0.20)]	ND(0.20)	ND(0.20) J	ND(0.20) J
2-Butanone	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.010)
2-Chloro-1,3-butadiene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Chloroethylvinylether	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050) J	ND(0.0050) J
2-Hexanone	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.010)
3-Chloropropene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methyl-2-pentanone	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.010)
Acetone	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	ND(0.010) J
Acetonitrile	ND(0.10)	ND(0.10) [ND(0.10)]	ND(0.10)	ND(0.10) J	ND(0.10) J
Acrolein	ND(0.10)	ND(0.10) [ND(0.10)]	ND(0.10)	ND(0.10) J	ND(0.10) J
Acrylonitrile	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050) J	ND(0.0050) J
Benzene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromoform	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromomethane	ND(0.0020)	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020)	ND(0.0020)
Carbon Disulfide	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbon Tetrachloride	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroform	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloromethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
cis-1,3-Dichloropropene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromochloromethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromomethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dichlorodifluoromethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethyl Methacrylate	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Iodomethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Isobutanol	ND(0.10)	ND(0.10) [ND(0.10)]	ND(0.10)	ND(0.10) J	ND(0.10) J
Methacrylonitrile	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methyl Methacrylate	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene Chloride	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Propionitrile	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	ND(0.010) J
Styrene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0020)	0.0018 J [0.0020]	ND(0.0020)	ND(0.0020)	ND(0.0020)
Toluene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,2-Dichloroethene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,3-Dichloropropene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,4-Dichloro-2-butene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichlorofluoromethane	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Acetate	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	ND(0.0020)	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020)	ND(0.0020)
Xylenes (total)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	ND(0.20)	0.0018 J [0.0020]	ND(0.20)	ND(0.20)	ND(0.20)

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA2-1 04/15/02	GMA2-2 04/15/02	GMA2-3 04/15/02	GMA2-4 04/17/02	GMA2-5 04/17/02
PCBs-Unfiltered					
Aroclor-1016	ND(0.000065)	ND(0.000065) [ND(0.00025)]	NS	ND(0.000065)	ND(0.000065)
Aroclor-1221	ND(0.000065)	ND(0.000065) [ND(0.00025)]	NS	ND(0.000065)	ND(0.000065)
Aroclor-1232	ND(0.000065)	ND(0.000065) [ND(0.00025)]	NS	ND(0.000065)	ND(0.000065)
Aroclor-1242	ND(0.000065)	ND(0.000065) [ND(0.00025)]	NS	ND(0.000065)	ND(0.000065)
Aroclor-1248	ND(0.000065)	ND(0.000065) [ND(0.00025)]	NS	ND(0.000065)	ND(0.000065)
Aroclor-1254	0.00019	0.000038 J [0.000048 J]	NS	ND(0.000065)	0.000035 J
Aroclor-1260	ND(0.000065)	ND(0.000065) [0.000026 J]	NS	ND(0.000065)	ND(0.000065)
Total PCBs	0.00019	0.000038 J [0.000074 J]	NS	ND(0.000065)	0.000035 J
PCBs-Filtered					
Aroclor-1016	ND(0.000065)	ND(0.000065) [ND(0.000065)]	NS	ND(0.000065)	ND(0.000065)
Aroclor-1221	ND(0.000065)	ND(0.000065) [ND(0.000065)]	NS	ND(0.000065)	ND(0.000065)
Aroclor-1232	ND(0.000065)	ND(0.000065) [ND(0.000065)]	NS	ND(0.000065)	ND(0.000065)
Aroclor-1242	ND(0.000065)	ND(0.000065) [ND(0.000065)]	NS	ND(0.000065)	ND(0.000065)
Aroclor-1248	ND(0.000065)	ND(0.000065) [ND(0.000065)]	NS	ND(0.000065)	ND(0.000065)
Aroclor-1254	0.000072	ND(0.000065) [ND(0.000065)]	NS	ND(0.000065)	ND(0.000065)
Aroclor-1260	ND(0.000065)	ND(0.000065) [ND(0.000065)]	NS	ND(0.000065)	ND(0.000065)
Total PCBs	0.000072	ND(0.000065) [ND(0.000065)]	NS	ND(0.000065)	ND(0.000065)
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
1,2,4-Trichlorobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.0050)	ND(0.010)	ND(0.010)
1,2-Dichlorobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.0050)	ND(0.010)	ND(0.010)
1,2-Diphenylhydrazine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
1,3,5-Trinitrobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
1,3-Dichlorobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.0050)	ND(0.010)	ND(0.010)
1,3-Dinitrobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
1,4-Dichlorobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.0050)	ND(0.010)	ND(0.010)
1,4-Naphthoquinone	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
1-Naphthylamine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
2,3,4,6-Tetrachlorophenol	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010) J	ND(0.010) J
2,4,5-Trichlorophenol	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
2,4,6-Trichlorophenol	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
2,4-Dichlorophenol	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
2,4-Dimethylphenol	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
2,4-Dinitrophenol	ND(0.050)	ND(0.050) [ND(0.050)]	NS	ND(0.050)	ND(0.050)
2,4-Dinitrotoluene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
2,6-Dichlorophenol	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
2,6-Dinitrotoluene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
2-Acetylaminofluorene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
2-Chloronaphthalene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
2-Chlorophenol	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
2-Methylnaphthalene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
2-Methylphenol	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
2-Naphthylamine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
2-Nitroaniline	ND(0.050)	ND(0.050) [ND(0.050)]	NS	ND(0.050)	ND(0.050)
2-Nitrophenol	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
2-Picoline	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
3&4-Methylphenol	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
3,3'-Dichlorobenzidine	ND(0.020)	ND(0.020) [ND(0.020)]	NS	ND(0.020)	ND(0.020)
3,3'-Dimethylbenzidine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
3-Methylcholanthrene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
3-Nitroaniline	ND(0.050)	ND(0.050) [ND(0.050)]	NS	ND(0.050)	ND(0.050)
4,6-Dinitro-2-methylphenol	ND(0.050)	ND(0.050) [ND(0.050)]	NS	ND(0.050)	ND(0.050)
4-Aminobiphenyl	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
4-Bromophenyl-phenylether	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
4-Chloro-3-Methylphenol	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
4-Chloroaniline	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
4-Chlorobenzilate	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010) J	ND(0.010) J
4-Chlorophenyl-phenylether	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
4-Nitroaniline	ND(0.050)	ND(0.050) [ND(0.050)]	NS	ND(0.050)	ND(0.050)
4-Nitrophenol	ND(0.050)	ND(0.050) [ND(0.050)]	NS	ND(0.050)	ND(0.050)
4-Nitroquinoline-1-oxide	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010) J	ND(0.010) J

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA2-1 04/15/02	GMA2-2 04/15/02	GMA2-3 04/15/02	GMA2-4 04/17/02	GMA2-5 04/17/02
Semivolatile Organics (continued)					
4-Phenylenediamine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010) J	ND(0.010) J
5-Nitro-o-toluidine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
7,12-Dimethylbenz(a)anthracene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
a,a'-Dimethylphenethylamine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Acenaphthene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Acenaphthylene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Acetophenone	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Aniline	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Anthracene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Aramite	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010) J	ND(0.010) J
Benzidine	ND(0.020)	ND(0.020) [ND(0.020)]	NS	ND(0.020)	ND(0.020)
Benzo(a)anthracene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Benzo(a)pyrene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Benzo(b)fluoranthene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Benzo(g,h,i)perylene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Benzo(k)fluoranthene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Benzyl Alcohol	ND(0.020)	ND(0.020) [ND(0.020)]	NS	ND(0.020)	ND(0.020)
bis(2-Chloroethoxy)methane	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
bis(2-Chloroethyl)ether	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
bis(2-Chloroisopropyl)ether	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
bis(2-Ethylhexyl)phthalate	ND(0.0060)	ND(0.0060) [ND(0.0060)]	NS	ND(0.0060)	ND(0.0060)
Butylbenzylphthalate	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Chrysene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Diallate	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Dibenzo(a,h)anthracene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Dibenzofuran	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Diethylphthalate	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Dimethoate	ND(0.050)	ND(0.050) [ND(0.050)]	NS	ND(0.050)	ND(0.050)
Dimethylphthalate	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Di-n-Butylphthalate	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Di-n-Octylphthalate	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Diphenylamine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Disulfoton	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Ethyl Methanesulfonate	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Ethyl Parathion	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Famphur	ND(0.050)	ND(0.050) [ND(0.050)]	NS	ND(0.050)	ND(0.050)
Fluoranthene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Fluorene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Hexachlorobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Hexachlorobutadiene	ND(0.0010)	ND(0.0010) [ND(0.0010)]	NS	ND(0.0010)	ND(0.0010)
Hexachlorocyclopentadiene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Hexachloroethane	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Hexachlorophene	ND(0.020)	ND(0.020) [ND(0.020)]	NS	ND(0.020)	ND(0.020)
Hexachloropropene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010) J	ND(0.010) J
Indeno(1,2,3-cd)pyrene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Isodrin	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Isophorone	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Isosafrole	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Kepone	ND(0.050)	ND(0.050) [ND(0.050)]	NS	ND(0.050)	ND(0.050)
Methapyrilene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Methyl Methanesulfonate	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Methyl Parathion	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Naphthalene	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.0050)	ND(0.010)	ND(0.010)
Nitrobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
N-Nitrosodiethylamine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
N-Nitrosodimethylamine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
N-Nitroso-di-n-butylamine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
N-Nitroso-di-n-propylamine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
N-Nitrosodiphenylamine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
N-Nitrosomethylethylamine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
N-Nitrosomorpholine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
N-Nitrosopiperidine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
N-Nitrosopyrrolidine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA2-1 04/15/02	GMA2-2 04/15/02	GMA2-3 04/15/02	GMA2-4 04/17/02	GMA2-5 04/17/02
Semivolatile Organics (continued)					
o,o,o-Triethylphosphorothioate	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
o-Toluidine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
p-Dimethylaminoazobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Pentachlorobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Pentachloroethane	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Pentachloronitrobenzene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Pentachlorophenol	ND(0.050)	ND(0.050) [ND(0.050)]	NS	ND(0.010) J	ND(0.010) J
Phenacetin	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.050)	ND(0.050)
Phenanthrene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Phenol	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Phorate	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Pronamide	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Pyrene	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Pyridine	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Safrole	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Sulfotep	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Thionazin	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Organochlorine Pesticides					
4,4'-DDD	ND(0.00010)	ND(0.00010) [ND(0.00010)]	NS	ND(0.00010)	ND(0.00010)
4,4'-DDE	ND(0.00010)	ND(0.00010) [ND(0.00010)]	NS	ND(0.00010)	ND(0.00010)
4,4'-DDT	ND(0.00010)	ND(0.00010) [ND(0.00010)]	NS	ND(0.00010)	ND(0.00010)
Aldrin	ND(0.000050)	ND(0.000050) [ND(0.000050)]	NS	ND(0.000050)	ND(0.000050)
Alpha-BHC	ND(0.000050)	ND(0.000050) [ND(0.000050)]	NS	ND(0.000050)	ND(0.000050)
Alpha-Chlordane	ND(0.000050)	ND(0.000050) [ND(0.000050)]	NS	ND(0.000050)	ND(0.000050)
Beta-BHC	ND(0.000050)	ND(0.000050) [ND(0.000050)]	NS	ND(0.000050)	ND(0.000050)
Delta-BHC	ND(0.000050)	ND(0.000050) [ND(0.000050)]	NS	ND(0.000050)	ND(0.000050)
Dieldrin	ND(0.00010)	ND(0.00010) [ND(0.00010)]	NS	ND(0.00010)	ND(0.00010)
Endosulfan I	ND(0.00010)	ND(0.00010) [ND(0.00010)]	NS	ND(0.00010)	ND(0.00010)
Endosulfan II	ND(0.00010)	ND(0.00010) [ND(0.00010)]	NS	ND(0.00010)	ND(0.00010)
Endosulfan Sulfate	ND(0.00010)	ND(0.00010) [ND(0.00010)]	NS	ND(0.00010)	ND(0.00010)
Endrin	ND(0.00010)	ND(0.00010) [ND(0.00010)]	NS	ND(0.00010)	ND(0.00010)
Endrin Aldehyde	ND(0.00010)	ND(0.00010) [ND(0.00010)]	NS	ND(0.00010)	ND(0.00010)
Endrin Ketone	ND(0.00010)	ND(0.00010) [ND(0.00010)]	NS	ND(0.00010)	ND(0.00010)
Gamma-BHC (Lindane)	ND(0.000050)	ND(0.000050) [ND(0.000050)]	NS	ND(0.000050)	ND(0.000050)
Gamma-Chlordane	ND(0.000050)	ND(0.000050) [ND(0.000050)]	NS	ND(0.000050)	ND(0.000050)
Heptachlor	ND(0.000050)	ND(0.000050) [ND(0.000050)]	NS	ND(0.000050)	ND(0.000050)
Heptachlor Epoxide	ND(0.000050)	ND(0.000050) [ND(0.000050)]	NS	ND(0.000050)	ND(0.000050)
Methoxychlor	ND(0.00050)	ND(0.00050) [ND(0.00050)]	NS	ND(0.00050)	ND(0.00050)
Technical Chlordane	ND(0.00050)	ND(0.00050) [ND(0.00050)]	NS	ND(0.00050)	ND(0.00050)
Toxaphene	ND(0.0010)	ND(0.0010) [ND(0.0010)]	NS	ND(0.0010)	ND(0.0010)
Herbicides					
2,4,5-T	ND(0.0020)	ND(0.0020) [ND(0.0020)]	NS	ND(0.0020)	ND(0.0020)
2,4,5-TP	ND(0.0020)	ND(0.0020) [ND(0.0020)]	NS	ND(0.0020)	ND(0.0020)
2,4-D	ND(0.010)	ND(0.010) [ND(0.010)]	NS	ND(0.010)	ND(0.010)
Dinoseb	ND(0.0010)	ND(0.0010) [ND(0.0010)]	NS	ND(0.0010)	ND(0.0010)
Furans					
2,3,7,8-TCDF	0.0000000055 J	ND(0.0000000012) [0.0000000014 J]	NS	ND(0.0000000017) X	ND(0.00000000060)
TCDFs (total)	ND(0.000000012) X	ND(0.0000000012) [0.0000000014]	NS	ND(0.0000000017) X	ND(0.00000000060)
1,2,3,7,8-PeCDF	ND(0.0000000037) X	ND(0.0000000013) [0.0000000050 JB]	NS	ND(0.0000000060) X	ND(0.00000000070)
2,3,4,7,8-PeCDF	0.0000000063 J	ND(0.0000000012) [ND(0.0000000049) X]	NS	ND(0.0000000069) X	ND(0.0000000016) X
PeCDFs (total)	ND(0.000000020) X	ND(0.0000000013) [0.0000000050]	NS	ND(0.000000013) X	ND(0.0000000016) X
1,2,3,4,7,8-HxCDF	0.0000000055 JB	ND(0.0000000011) [0.0000000034 JB]	NS	0.0000000075 JB	0.0000000021 JB
1,2,3,6,7,8-HxCDF	0.0000000033 J	ND(0.0000000011) [0.0000000031 J]	NS	0.0000000047 J	ND(0.00000000060)
1,2,3,7,8,9-HxCDF	0.0000000039 JB	ND(0.0000000013) [0.0000000038 JB]	NS	0.000000012 J	ND(0.00000000070)
2,3,4,6,7,8-HxCDF	ND(0.0000000012)	ND(0.0000000011) [0.0000000026 J]	NS	0.0000000073 J	ND(0.00000000060)
HxCDFs (total)	0.000000035	ND(0.0000000012) [0.000000013]	NS	0.000000032	0.0000000021
1,2,3,4,6,7,8-HpCDF	ND(0.0000000065) X	ND(0.0000000014) [0.0000000034 J]	NS	ND(0.0000000045) X	ND(0.00000000070)
1,2,3,4,7,8,9-HpCDF	0.0000000028 J	ND(0.0000000017) [0.0000000021 J]	NS	0.0000000092 J	ND(0.00000000090)
HpCDFs (total)	0.0000000090	ND(0.0000000015) [0.0000000055]	NS	0.0000000092	ND(0.00000000080)
OCDF	ND(0.0000000094) X	ND(0.0000000027) [0.0000000029 J]	NS	ND(0.000000015) X	ND(0.0000000018)

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA2-1 04/15/02	GMA2-2 04/15/02	GMA2-3 04/15/02	GMA2-4 04/17/02	GMA2-5 04/17/02
Dioxins					
2,3,7,8-TCDD	ND(0.0000000015)	ND(0.0000000015) [ND(0.0000000013) X]	NS	ND(0.0000000019) X	ND(0.000000000080)
TCDDs (total)	ND(0.0000000015)	ND(0.0000000015) [ND(0.0000000013) X]	NS	ND(0.0000000019) X	ND(0.000000000080)
1,2,3,7,8-PeCDD	ND(0.0000000030) X	ND(0.0000000014) [0.0000000032 J]	NS	0.0000000076 J	ND(0.000000000080)
PeCDDs (total)	ND(0.0000000030) X	ND(0.0000000014) [0.0000000032]	NS	0.0000000076	ND(0.000000000080)
1,2,3,4,7,8-HxCDD	ND(0.0000000018)	ND(0.0000000015) [0.0000000029 J]	NS	0.0000000057 J	ND(0.000000000090)
1,2,3,6,7,8-HxCDD	ND(0.0000000018)	ND(0.0000000016) [0.0000000035 J]	NS	0.0000000068 J	ND(0.000000000090)
1,2,3,7,8,9-HxCDD	ND(0.0000000018)	ND(0.0000000015) [0.0000000036 J]	NS	0.000000012 J	ND(0.000000000090)
HxCDDs (total)	ND(0.0000000018)	ND(0.0000000015) [0.0000000010]	NS	0.000000025	ND(0.000000000090)
1,2,3,4,6,7,8-HpCDD	ND(0.0000000037) X	ND(0.0000000025) [0.0000000020 J]	NS	ND(0.0000000079) X	ND(0.000000000012)
HpCDDs (total)	ND(0.0000000037) X	ND(0.0000000025) [0.0000000020]	NS	ND(0.0000000079) X	ND(0.000000000012)
OCDD	0.000000017 J	0.0000000053 J [ND(0.0000000054) X]	NS	ND(0.000000020)	ND(0.0000000044) X
Total TEQ (WHO TEFs)	0.0000000077	0.0000000023 [0.0000000078]	NS	0.000000016	0.0000000017
Inorganics-Unfiltered					
Antimony	ND(0.0600)	ND(0.0600) [ND(0.0600)]	NS	ND(0.0600)	ND(0.0600)
Arsenic	ND(0.0100)	ND(0.0100) [ND(0.0100)]	NS	ND(0.0100)	ND(0.0100)
Barium	ND(0.200)	ND(0.200) [ND(0.200)]	NS	ND(0.200)	ND(0.200)
Beryllium	ND(0.00100)	ND(0.00100) [ND(0.00100)]	NS	ND(0.00100)	ND(0.00100)
Cadmium	ND(0.00500)	ND(0.00500) [ND(0.00500)]	NS	ND(0.00500)	ND(0.00500)
Chromium	ND(0.0100)	ND(0.0100) [ND(0.0100)]	NS	ND(0.0100)	ND(0.0100)
Cobalt	ND(0.0500)	ND(0.0500) [ND(0.0500)]	NS	ND(0.0500)	ND(0.0500)
Copper	ND(0.0250)	ND(0.0250) [ND(0.0250)]	NS	ND(0.0250)	ND(0.0250)
Cyanide	0.0180	ND(0.0100) [ND(0.0100)]	NS	ND(0.0100)	ND(0.0100)
Lead	ND(0.00300)	ND(0.00300) [ND(0.00300)]	NS	ND(0.00300)	ND(0.00300)
Mercury	ND(0.000200)	ND(0.000200) [ND(0.000200)]	NS	ND(0.000200)	ND(0.000200)
Nickel	ND(0.0400)	ND(0.0400) [ND(0.0400)]	NS	ND(0.0400)	ND(0.0400)
Selenium	ND(0.00500)	ND(0.00500) [ND(0.00500)]	NS	ND(0.00500)	ND(0.00500)
Silver	ND(0.00500)	ND(0.00500) [ND(0.00500)]	NS	ND(0.00500)	ND(0.00500)
Sulfide	ND(5.00)	ND(5.00) [ND(5.00)]	NS	ND(5.00)	ND(5.00)
Thallium	ND(0.0100)	ND(0.0100) [ND(0.0100)]	NS	ND(0.0100) J	ND(0.0100) J
Tin	ND(0.0300)	ND(0.0300) [ND(0.0300)]	NS	ND(0.0300)	ND(0.0300)
Vanadium	ND(0.0500)	ND(0.0500) [ND(0.0500)]	NS	ND(0.0500)	ND(0.0500)
Zinc	0.0120 B	0.00640 B [0.0130 B]	NS	ND(0.0200)	0.00800 B
Inorganics-Filtered					
Antimony	ND(0.0600)	ND(0.0600) [ND(0.0600)]	NS	ND(0.0600)	ND(0.0600)
Arsenic	ND(0.100)	ND(0.100) [ND(0.100)]	NS	ND(0.100)	ND(0.100)
Barium	ND(0.200)	ND(0.200) [ND(0.200)]	NS	ND(0.200)	ND(0.200)
Beryllium	ND(0.00100)	ND(0.00100) [ND(0.00100)]	NS	ND(0.00100)	ND(0.00100)
Cadmium	ND(0.0100)	ND(0.0100) [ND(0.0100)]	NS	ND(0.0100)	ND(0.0100)
Chromium	ND(0.0250)	ND(0.0250) [ND(0.0250)]	NS	ND(0.0250)	ND(0.0250)
Cobalt	ND(0.0500)	ND(0.0500) [ND(0.0500)]	NS	ND(0.0500)	ND(0.0500)
Copper	0.00450 B	ND(0.100) [ND(0.100)]	NS	ND(0.100)	ND(0.100)
Lead	ND(0.00300)	ND(0.00300) [ND(0.00300)]	NS	ND(0.00300)	ND(0.00300)
Mercury	ND(0.000200)	ND(0.000200) [ND(0.000200)]	NS	ND(0.000200)	ND(0.000200)
Nickel	ND(0.0400)	ND(0.0400) [ND(0.0400)]	NS	ND(0.0400)	ND(0.0400)
Selenium	ND(0.00500)	ND(0.00500) [ND(0.00500)]	NS	ND(0.00500)	ND(0.00500)
Silver	ND(0.00500)	ND(0.00500) [ND(0.00500)]	NS	ND(0.00500)	ND(0.00500)
Thallium	ND(0.0100)	ND(0.0100) [ND(0.0100)]	NS	ND(0.0100) J	ND(0.0100) J
Tin	ND(0.0300)	ND(0.0300) [ND(0.0300)]	NS	ND(0.0300)	ND(0.0300)
Vanadium	ND(0.0500)	0.00380 B [0.00370 B]	NS	ND(0.0500)	ND(0.0500)
Zinc	0.0120 B	ND(0.0200) [ND(0.0200)]	NS	ND(0.0200)	ND(0.0200)

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA2-6 04/15/02	GMA2-7 04/15/02	GMA2-8 04/16/02	GMA2-9 04/17/02	J-1R 04/15/02	OJ-MW-2 04/15/02
Volatile Organics						
1,1,1,2-Tetrachloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,1-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2,2-Tetrachloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromo-3-chloropropane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromoethane	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dichloropropane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,4-Dioxane	ND(0.20)	ND(0.20)	ND(0.20) J	ND(0.20) J	ND(0.20)	ND(0.20)
2-Butanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Chloro-1,3-butadiene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Chloroethylvinylether	ND(0.0050)	ND(0.0050)	ND(0.0050) J	ND(0.0050) J	ND(0.0050)	ND(0.0050)
2-Hexanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
3-Chloropropene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methyl-2-pentanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acetone	ND(0.010)	ND(0.010)	ND(0.010) J	ND(0.010) J	ND(0.010)	ND(0.010)
Acetonitrile	ND(0.10)	ND(0.10)	ND(0.10) J	ND(0.10) J	ND(0.10)	ND(0.10)
Acrolein	ND(0.10)	ND(0.10)	ND(0.10) J	ND(0.10) J	ND(0.10)	ND(0.10)
Acrylonitrile	ND(0.0050)	ND(0.0050)	ND(0.0050) J	ND(0.0050) J	ND(0.0050)	ND(0.0050)
Benzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromoform	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromomethane	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Carbon Disulfide	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbon Tetrachloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroform	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
cis-1,3-Dichloropropene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromochloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromomethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dichlorodifluoromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethyl Methacrylate	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Iodomethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Isobutanol	ND(0.10)	ND(0.10)	ND(0.10) J	ND(0.10) J	ND(0.10)	ND(0.10)
Methacrylonitrile	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methyl Methacrylate	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene Chloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Propionitrile	ND(0.010)	ND(0.010)	ND(0.010) J	ND(0.010) J	ND(0.010)	ND(0.010)
Styrene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Toluene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,2-Dichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,3-Dichloropropene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,4-Dichloro-2-butene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichlorofluoromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0032 J	0.0029 J
Vinyl Acetate	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Xylenes (total)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	0.0032 J	0.0029 J

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA2-6 04/15/02	GMA2-7 04/15/02	GMA2-8 04/16/02	GMA2-9 04/17/02	J-1R 04/15/02	OJ-MW-2 04/15/02
PCBs-Unfiltered						
Aroclor-1016	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1221	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1232	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1242	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1248	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1254	ND(0.000065)	ND(0.000065)	ND(0.000065)	0.000054 J	ND(0.000065)	ND(0.000065)
Aroclor-1260	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	0.000031 J
Total PCBs	ND(0.000065)	ND(0.000065)	ND(0.000065)	0.000054 J	ND(0.000065)	0.000031 J
PCBs-Filtered						
Aroclor-1016	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1221	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1232	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1242	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1248	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1254	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1260	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Total PCBs	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2,4-Trichlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Dichlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Diphenylhydrazine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,3,5-Trinitrobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,3-Dichlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,3-Dinitrobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,4-Dichlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,4-Naphthoquinone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1-Naphthylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,3,4,6-Tetrachlorophenol	ND(0.010)	ND(0.010)	ND(0.010) J	ND(0.010) J	ND(0.010)	ND(0.010)
2,4,5-Trichlorophenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4,6-Trichlorophenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dichlorophenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dimethylphenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dinitrophenol	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4-Dinitrotoluene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,6-Dichlorophenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,6-Dinitrotoluene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Acetylaminofluorene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Chloronaphthalene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Chlorophenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Methylnaphthalene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Methylphenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Naphthylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Nitroaniline	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2-Nitrophenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Picoline	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
3&4-Methylphenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
3,3'-Dichlorobenzidine	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
3,3'-Dimethylbenzidine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
3-Methylcholanthrene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
3-Nitroaniline	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4,6-Dinitro-2-methylphenol	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Aminobiphenyl	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Bromophenyl-phenylether	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Chloro-3-Methylphenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Chloroaniline	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Chlorobenzilate	ND(0.010)	ND(0.010)	ND(0.010) J	ND(0.010) J	ND(0.010)	ND(0.010)
4-Chlorophenyl-phenylether	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Nitroaniline	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Nitrophenol	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Nitroquinoline-1-oxide	ND(0.010)	ND(0.010)	ND(0.010) J	ND(0.010) J	ND(0.010)	ND(0.010)

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA2-6 04/15/02	GMA2-7 04/15/02	GMA2-8 04/16/02	GMA2-9 04/17/02	J-1R 04/15/02	OJ-MW-2 04/15/02
Semivolatile Organics (continued)						
4-Phenylenediamine	ND(0.010)	ND(0.010)	ND(0.010) J	ND(0.010) J	ND(0.010)	ND(0.010)
5-Nitro-o-toluidine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
7,12-Dimethylbenz(a)anthracene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
a,a'-Dimethylphenethylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acenaphthene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acenaphthylene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acetophenone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Aniline	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Anthracene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Aramite	ND(0.010)	ND(0.010)	ND(0.010) J	ND(0.010) J	ND(0.010)	ND(0.010)
Benzidine	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Benzo(a)anthracene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(a)pyrene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(b)fluoranthene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(g,h,i)perylene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(k)fluoranthene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzyl Alcohol	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
bis(2-Chloroethoxy)methane	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
bis(2-Chloroethyl)ether	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
bis(2-Chloroisopropyl)ether	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
bis(2-Ethylhexyl)phthalate	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0060)	ND(0.0060)
Butylbenzylphthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Diallate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dibenzo(a,h)anthracene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dibenzofuran	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Diethylphthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dimethoate	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Dimethylphthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Di-n-Butylphthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Di-n-Octylphthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Diphenylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Disulfoton	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Ethyl Methanesulfonate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Ethyl Parathion	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Famphur	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Fluoranthene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Fluorene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorobutadiene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Hexachlorocyclopentadiene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachloroethane	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorophene	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Hexachloropropene	ND(0.010)	ND(0.010)	ND(0.010) J	ND(0.010) J	ND(0.010)	ND(0.010)
Indeno(1,2,3-cd)pyrene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Isodrin	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Isophorone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Isosafrole	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Kepone	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Methapyrilene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Methyl Methanesulfonate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Methyl Parathion	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Naphthalene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Nitrobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosodiethylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosodimethylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitroso-di-n-butylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitroso-di-n-propylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosodiphenylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosomethylethylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosomorpholine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosopiperidine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosopyrrolidine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA2-6 04/15/02	GMA2-7 04/15/02	GMA2-8 04/16/02	GMA2-9 04/17/02	J-1R 04/15/02	OJ-MW-2 04/15/02
Semivolatile Organics (continued)						
o,o,o-Triethylphosphorothioate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
o-Toluidine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
p-Dimethylaminoazobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Pentachlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Pentachloroethane	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Pentachloronitrobenzene	ND(0.010)	ND(0.010)	ND(0.010) J	ND(0.010) J	ND(0.010)	ND(0.010)
Pentachlorophenol	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Phenacetin	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Phenanthrene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Phenol	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Phorate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Pronamide	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Pyrene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Pyridine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Safrole	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Sulfotep	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Thionazin	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Organochlorine Pesticides						
4,4'-DDD	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
4,4'-DDE	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
4,4'-DDT	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
Aldrin	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
Alpha-BHC	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
Alpha-Chlordane	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
Beta-BHC	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
Delta-BHC	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
Dieldrin	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
Endosulfan I	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
Endosulfan II	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
Endosulfan Sulfate	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
Endrin	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
Endrin Aldehyde	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
Endrin Ketone	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)	ND(0.00010)
Gamma-BHC (Lindane)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
Gamma-Chlordane	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
Heptachlor	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
Heptachlor Epoxide	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
Methoxychlor	ND(0.00050)	ND(0.00050)	ND(0.00050)	ND(0.00050)	ND(0.00050)	ND(0.00050)
Technical Chlordane	ND(0.00050)	ND(0.00050)	ND(0.00050)	ND(0.00050)	ND(0.00050)	ND(0.00050)
Toxaphene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Herbicides						
2,4,5-T	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
2,4,5-TP	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
2,4-D	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dinoseb	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Furans						
2,3,7,8-TCDF	ND(0.0000000016) X	ND(0.0000000011)	ND(0.000000000090)	ND(0.0000000011)	ND(0.0000000013)	0.0000000051 J
TCDFs (total)	ND(0.0000000016) X	ND(0.0000000011)	ND(0.000000015) X	ND(0.0000000011)	ND(0.0000000013)	0.0000000051
1,2,3,7,8-PeCDF	0.0000000046 JB	ND(0.0000000025) X	ND(0.0000000011)	ND(0.0000000010)	ND(0.0000000010) X	0.000000014 JB
2,3,4,7,8-PeCDF	ND(0.0000000039) X	ND(0.0000000025) X	ND(0.0000000024) X	ND(0.0000000010)	ND(0.0000000021) X	ND(0.0000000095) X
PeCDFs (total)	0.0000000046	ND(0.0000000051) X	ND(0.0000000024) X	ND(0.0000000010)	ND(0.0000000031) X	0.000000014
1,2,3,4,7,8-HxCDF	0.0000000047 JB	ND(0.0000000026) X	ND(0.0000000031) X	ND(0.000000000090)	0.0000000035 JB	0.000000012 JB
1,2,3,6,7,8-HxCDF	0.0000000034 J	0.0000000030 J	ND(0.0000000022) X	ND(0.000000000090)	0.0000000034 J	0.0000000098 J
1,2,3,7,8,9-HxCDF	0.0000000037 JB	0.0000000042 JB	0.0000000050 J	ND(0.0000000011)	0.0000000038 JB	ND(0.0000000078) X
2,3,4,6,7,8-HxCDF	0.0000000032 J	0.0000000029 J	0.0000000030 J	ND(0.0000000010)	0.0000000022 J	0.0000000077 J
HxCDFs (total)	0.000000015	0.000000010	0.0000000080	ND(0.0000000010)	0.000000013	0.000000029
1,2,3,4,6,7,8-HpCDF	0.0000000032 J	0.0000000024 J	ND(0.0000000015) X	ND(0.0000000011)	ND(0.0000000023) X	ND(0.0000000090) X
1,2,3,4,7,8,9-HpCDF	ND(0.0000000027)	ND(0.0000000025) X	ND(0.0000000017)	ND(0.0000000014)	0.0000000030 J	0.000000010 J
HpCDFs (total)	0.0000000032	0.0000000024	ND(0.0000000015) X	ND(0.0000000012)	0.0000000030	0.000000014
OCDF	ND(0.0000000054)	ND(0.0000000042) X	ND(0.0000000035)	ND(0.0000000020)	0.0000000063 J	0.000000027 J

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA2-6 04/15/02	GMA2-7 04/15/02	GMA2-8 04/16/02	GMA2-9 04/17/02	J-1R 04/15/02	OJ-MW-2 04/15/02
Dioxins						
2,3,7,8-TCDD	ND(0.0000000022)	ND(0.0000000016)	0.0000000025 J	ND(0.0000000014)	ND(0.0000000017)	0.0000000040 J
TCDDs (total)	ND(0.0000000022)	ND(0.0000000016)	0.0000000025	ND(0.0000000014)	ND(0.0000000017)	0.0000000040
1,2,3,7,8-PeCDD	ND(0.0000000040) X	0.0000000030 J	ND(0.0000000052) X	ND(0.0000000011)	0.0000000029 J	0.0000000010 J
PeCDDs (total)	ND(0.0000000040) X	0.0000000030	ND(0.0000000052) X	ND(0.0000000016) X	0.0000000029	0.0000000010
1,2,3,4,7,8-HxCDD	0.0000000029 J	0.0000000017 J	ND(0.0000000015)	ND(0.0000000011)	0.0000000037 J	ND(0.0000000068) X
1,2,3,6,7,8-HxCDD	ND(0.0000000026)	ND(0.0000000015)	ND(0.0000000015)	ND(0.0000000011)	0.0000000028 J	ND(0.0000000089) X
1,2,3,7,8,9-HxCDD	0.0000000033 J	ND(0.0000000025) X	ND(0.0000000016) X	ND(0.0000000011)	ND(0.0000000026) X	ND(0.0000000037) X
HxCDDs (total)	0.0000000063	0.0000000017	ND(0.0000000016) X	ND(0.0000000011)	0.0000000065	ND(0.0000000019) X
1,2,3,4,6,7,8-HpCDD	ND(0.0000000042)	0.0000000030 J	ND(0.0000000021)	ND(0.0000000018)	ND(0.0000000019) X	0.0000000012 J
HpCDDs (total)	ND(0.0000000042)	0.0000000030	ND(0.0000000021)	ND(0.0000000018)	ND(0.0000000019) X	0.0000000012
OCDD	0.0000000079 J	0.0000000076 J	ND(0.0000000015)	ND(0.0000000059) X	ND(0.0000000078) X	0.0000000039 J
Total TEQ (WHO TEFs)	0.0000000067	0.0000000061	0.0000000071	0.0000000020	0.0000000065	0.0000000022
Inorganics-Unfiltered						
Antimony	ND(0.0600)	ND(0.0600)	ND(0.0600)	ND(0.0600)	ND(0.0600)	ND(0.0600)
Arsenic	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)
Barium	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Beryllium	ND(0.00100)	ND(0.00100)	ND(0.00100)	ND(0.00100)	ND(0.00100)	ND(0.00100)
Cadmium	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)
Chromium	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)
Cobalt	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Copper	ND(0.0250)	ND(0.0250)	ND(0.0250)	ND(0.0250)	ND(0.0250)	ND(0.0250)
Cyanide	0.00490 B	0.00240 B	0.00530 B	0.0170	0.00320 B	0.00320 B
Lead	ND(0.00300)	ND(0.00300)	ND(0.00300)	ND(0.00300)	ND(0.00300)	ND(0.00300)
Mercury	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)
Nickel	ND(0.0400)	ND(0.0400)	ND(0.0400)	ND(0.0400)	ND(0.0400)	ND(0.0400)
Selenium	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)
Silver	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)
Sulfide	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)
Thallium	ND(0.0100)	ND(0.0100)	ND(0.0100) J	ND(0.0100) J	ND(0.0100)	ND(0.0100)
Tin	ND(0.0300)	ND(0.0300)	ND(0.0300)	ND(0.0300)	ND(0.0300)	ND(0.0300)
Vanadium	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	0.0200 B	0.0240	ND(0.0200)	ND(0.0200)	0.0110 B	0.0360
Inorganics-Filtered						
Antimony	ND(0.0600)	ND(0.0600)	ND(0.0600)	ND(0.0600)	ND(0.0600)	ND(0.0600)
Arsenic	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)
Barium	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Beryllium	ND(0.00100)	ND(0.00100)	ND(0.00100)	ND(0.00100)	ND(0.00100)	ND(0.00100)
Cadmium	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)
Chromium	ND(0.0250)	ND(0.0250)	ND(0.0250)	ND(0.0250)	ND(0.0250)	ND(0.0250)
Cobalt	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Copper	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)
Lead	ND(0.00300)	ND(0.00300)	ND(0.00300)	ND(0.00300)	ND(0.00300)	ND(0.00300)
Mercury	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)
Nickel	ND(0.0400)	ND(0.0400)	ND(0.0400)	ND(0.0400)	ND(0.0400)	ND(0.0400)
Selenium	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)
Silver	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)
Thallium	ND(0.0100)	ND(0.0100)	ND(0.0100) J	ND(0.0100) J	ND(0.0100)	ND(0.0100)
Tin	ND(0.0300)	ND(0.0300)	ND(0.0300)	ND(0.0300)	ND(0.0300)	ND(0.0300)
Vanadium	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	ND(0.0200)	ND(0.0200)	0.0120 B	0.00540 B	0.00680 B	0.0110 B

(See Notes on Page 11)

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of PCBs and Appendix IX + 3 constituents.
2. Data validation has been performed on data set as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved October 17, 2000).
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. NS - Not Sampled - Parameter was not requested on sample chain of custody 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. Duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, PCBs, semi-volatiles, pesticides, herbicides, dioxin/furans)

B - Analyte was also detected in the associated method blank.

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

X - Estimated maximum possible concentration.

Inorganics

B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).

TABLE 6

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-2 STANDARDS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-2 Standards	GMA2-2 04/15/02	GMA2-3 04/15/02	GMA2-5 04/17/02	OJ-MW-2 04/15/02
Volatile Organics					
Tetrachloroethene	3	0.0018 J [0.0020]	ND(0.0020)	ND(0.0020)	ND(0.0020)
Trichloroethene	0.3	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	0.0029 J
Total VOCs	5	0.0018 J [0.0020]	ND(0.20)	ND(0.20)	0.0029 J
PCBs-Unfiltered					
Aroclor-1254	Not Listed	0.000038 J [0.000048 J]	NS	0.000035 J	ND(0.000065)
Aroclor-1260	Not Listed	ND(0.000065) [0.000026 J]	NS	ND(0.000065)	0.000031 J
Total PCBs	Not Listed	0.000038 J [0.000074 J]	NS	0.000035 J	0.000031 J
PCBs-Filtered					
Aroclor-1254	Not Listed	[ND(0.000065)]	NS	NS	NS
Aroclor-1260	Not Listed	[ND(0.000065)]	NS	NS	NS
Total PCBs	Not Listed	[ND(0.000065)]	NS	NS	NS
Semivolatile Organics					
None Detected	--	--	NS	--	--
Organochlorine Pesticides					
None Detected	--	--	NS	--	--
Herbicides					
None Detected	--	--	NS	--	--
Furans					
2,3,7,8-TCDF	Not Listed	ND(0.0000000012) [0.0000000014 J]	NS	ND(0.00000000060)	0.0000000051 J
TCDFs (total)	Not Listed	ND(0.0000000012) [0.0000000014]	NS	ND(0.00000000060)	0.0000000051
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000013) [0.0000000050 JB]	NS	ND(0.00000000070)	0.000000014 JB
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000012) [ND(0.0000000049) X]	NS	ND(0.0000000016) X	ND(0.0000000095) X
PeCDFs (total)	Not Listed	ND(0.0000000013) [0.0000000050]	NS	ND(0.0000000016) X	0.000000014
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000011) [0.0000000034 JB]	NS	0.0000000021 JB	0.000000012 JB
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000011) [0.0000000031 J]	NS	ND(0.00000000060)	0.0000000098 J
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000013) [0.0000000038 JB]	NS	ND(0.00000000070)	ND(0.0000000078) X
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000011) [0.0000000026 J]	NS	ND(0.00000000060)	0.0000000077 J
HxCDFs (total)	Not Listed	ND(0.0000000012) [0.000000013]	NS	0.0000000021	0.000000029
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000014) [0.0000000034 J]	NS	ND(0.00000000070)	ND(0.0000000090) X
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000017) [0.0000000021 J]	NS	ND(0.00000000090)	0.000000010 J
HpCDFs (total)	Not Listed	ND(0.0000000015) [0.0000000055]	NS	ND(0.00000000080)	0.000000014
OCDF	Not Listed	ND(0.0000000027) [0.0000000029 J]	NS	ND(0.0000000018)	0.000000027 J
Dioxins					
2,3,7,8-TCDD	0.0000001	ND(0.0000000015) [ND(0.0000000013) X]	NS	ND(0.00000000080)	0.0000000040 J
TCDDs (total)	Not Listed	ND(0.0000000015) [ND(0.0000000013) X]	NS	ND(0.00000000080)	0.0000000040
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000014) [0.0000000032 J]	NS	ND(0.00000000080)	0.000000010 J
PeCDDs (total)	Not Listed	ND(0.0000000014) [0.0000000032]	NS	ND(0.00000000080)	0.000000010
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000015) [0.0000000029 J]	NS	ND(0.00000000090)	ND(0.0000000068) X
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000016) [0.0000000035 J]	NS	ND(0.00000000090)	ND(0.0000000089) X
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000015) [0.0000000036 J]	NS	ND(0.00000000090)	ND(0.0000000037) X
HxCDDs (total)	Not Listed	ND(0.0000000015) [0.000000010]	NS	ND(0.00000000090)	ND(0.000000019) X
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000025) [0.0000000020 J]	NS	ND(0.0000000012)	0.000000012 J
HpCDDs (total)	Not Listed	ND(0.0000000025) [0.0000000020]	NS	ND(0.0000000012)	0.000000012
OCDD	Not Listed	0.0000000053 J [ND(0.0000000054) X]	NS	ND(0.0000000044) X	0.000000039 J
Total Dioxins	Not Listed	0.0000000053 [0.000000015]	NS	ND(0.0000000044)	0.000000065
Total TEQ (WHO TEFs)	Not Listed	0.0000000023 [0.0000000078]	NS	0.0000000017	0.000000022
Inorganics-Unfiltered					
Cyanide	Not Listed	ND(0.0100) [ND(0.0100)]	NS	ND(0.0100)	0.00320 B
Vanadium	Not Listed	ND(0.0500) [ND(0.0500)]	NS	ND(0.0500)	ND(0.0500)
Zinc	Not Listed	0.00640 B [0.0130 B]	NS	0.00800 B	0.0360
Inorganics-Filtered					
Vanadium	Not Listed	[0.00370 B]	NS	NS	NS
Zinc	Not Listed	[ND(0.0200)]	NS	NS	NS

(See Notes on Page 2)

TABLE 6

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-2 STANDARDS

(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of PCBs and Appendix IX + 3 constituents.
2. Data validation has been performed on data set as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved October 17, 2000).
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. NS - Not Sampled - Parameter was not requested on sample chain of custody form.
5. With the exception of dioxin/furans, only those constituents detected in at least one sample are summarized.
6. 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.
7. Duplicate sample results are presented in brackets.
8. -- Indicates that all constituents for the parameter group were not detected.

Data Qualifiers:

Organics (volatiles, PCBs, semi-volatiles, pesticides, herbicides, dioxin/furans)

B - Analyte was also detected in the associated method blank.

J - The compound or analyte was positively identified, but the associated numerical value is an estimated concentration.

X - Estimated maximum possible concentration.

Inorganics

B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).

TABLE 7

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	GMA2-1 04/15/02	GMA2-2 04/15/02	GMA2-4 04/17/02
Volatile Organics				
Tetrachloroethene	5	ND(0.0020)	0.0018 J [0.0020]	ND(0.0020)
Trichloroethene	20	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Total VOCs	Not Listed	ND(0.20)	0.0018 J [0.0020]	ND(0.20)
PCBs-Unfiltered				
Aroclor-1254	Not Applicable	0.00019	0.000038 J [0.000048 J]	ND(0.000065)
Aroclor-1260	Not Applicable	ND(0.000065)	ND(0.000065) [0.000026 J]	ND(0.000065)
Total PCBs	Not Applicable	0.00019	0.000038 J [0.000074 J]	ND(0.000065)
PCBs-Filtered				
Aroclor-1254	Not Listed	0.000072	ND(0.000065) [ND(0.000065)]	ND(0.000065)
Aroclor-1260	Not Listed	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)
Total PCBs	0.0003	0.000072	ND(0.000065) [ND(0.000065)]	ND(0.000065)
Semivolatile Organics				
None Detected	--	--	--	--
Organochlorine Pesticides				
None Detected	--	--	--	--
Herbicides				
None Detected	--	--	--	--
Furans				
2,3,7,8-TCDF	Not Listed	0.0000000055 J	ND(0.0000000012) [0.0000000014 J]	ND(0.0000000017) X
TCDFs (total)	Not Listed	ND(0.000000012) X	ND(0.0000000012) [0.0000000014]	ND(0.0000000017) X
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000037) X	ND(0.0000000013) [0.0000000050 JB]	ND(0.0000000060) X
2,3,4,7,8-PeCDF	Not Listed	0.0000000063 J	ND(0.0000000012) [ND(0.0000000049) X]	ND(0.0000000069) X
PeCDFs (total)	Not Listed	ND(0.000000020) X	ND(0.0000000013) [0.0000000050]	ND(0.000000013) X
1,2,3,4,7,8-HxCDF	Not Listed	0.0000000055 JB	ND(0.0000000011) [0.0000000034 JB]	0.0000000075 JB
1,2,3,6,7,8-HxCDF	Not Listed	0.0000000033 J	ND(0.0000000011) [0.0000000031 J]	0.0000000047 J
1,2,3,7,8,9-HxCDF	Not Listed	0.0000000039 JB	ND(0.0000000013) [0.0000000038 JB]	0.000000012 J
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000012)	ND(0.0000000011) [0.0000000026 J]	0.0000000073 J
HxCDFs (total)	Not Listed	0.000000035	ND(0.0000000012) [0.000000013]	0.000000032
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000065) X	ND(0.0000000014) [0.0000000034 J]	ND(0.0000000045) X
1,2,3,4,7,8,9-HpCDF	Not Listed	0.0000000028 J	ND(0.0000000017) [0.0000000021 J]	0.0000000092 J
HpCDFs (total)	Not Listed	0.0000000090	ND(0.0000000015) [0.0000000055]	0.0000000092
OCDF	Not Listed	ND(0.0000000094) X	ND(0.0000000027) [0.0000000029 J]	ND(0.000000015) X
Dioxins				
2,3,7,8-TCDD	0.00000003	ND(0.0000000015)	ND(0.0000000015) [ND(0.0000000013) X]	ND(0.0000000019) X
TCDDs (total)	Not Listed	ND(0.0000000015)	ND(0.0000000015) [ND(0.0000000013) X]	ND(0.0000000019) X
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000030) X	ND(0.0000000014) [0.0000000032 J]	0.0000000076 J
PeCDDs (total)	Not Listed	ND(0.0000000030) X	ND(0.0000000014) [0.0000000032]	0.0000000076
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000018)	ND(0.0000000015) [0.0000000029 J]	0.0000000057 J
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000018)	ND(0.0000000016) [0.0000000035 J]	0.0000000068 J
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000018)	ND(0.0000000015) [0.0000000036 J]	0.000000012 J
HxCDDs (total)	Not Listed	ND(0.0000000018)	ND(0.0000000015) [0.000000010]	0.000000025
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000037) X	ND(0.0000000025) [0.0000000020 J]	ND(0.0000000079) X
HpCDDs (total)	Not Listed	ND(0.0000000037) X	ND(0.0000000025) [0.0000000020]	ND(0.0000000079) X
OCDD	Not Listed	0.000000017 J	0.0000000053 J [ND(0.0000000054) X]	ND(0.000000020)
Total TEQ (WHO TEFs)	0.0000001	0.0000000077	0.0000000023 [0.0000000078]	0.000000016
Inorganics-Unfiltered				
Copper	Not Applicable	ND(0.0250)	ND(0.0250) [ND(0.0250)]	ND(0.0250)
Cyanide	0.01	0.0180	ND(0.0100) [ND(0.0100)]	ND(0.0100)
Vanadium	Not Applicable	ND(0.0500)	ND(0.0500) [ND(0.0500)]	ND(0.0500)
Zinc	Not Applicable	0.0120 B	0.00640 B [0.0130 B]	ND(0.0200)
Inorganics-Filtered				
Copper	Not Listed	0.00450 B	ND(0.100) [ND(0.100)]	ND(0.100)
Vanadium	2	ND(0.0500)	0.00380 B [0.00370 B]	ND(0.0500)
Zinc	0.9	0.0120 B	ND(0.0200) [ND(0.0200)]	ND(0.0200)

(See Notes on Page 4)

TABLE 7

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	GMA2-5 04/17/02	GMA2-6 04/15/02	GMA2-7 04/15/02	GMA2-8 04/16/02
Volatile Organics					
Tetrachloroethene	5	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Trichloroethene	20	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total VOCs	Not Listed	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)
PCBs-Unfiltered					
Aroclor-1254	Not Applicable	0.000035 J	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1260	Not Applicable	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Total PCBs	Not Applicable	0.000035 J	ND(0.000065)	ND(0.000065)	ND(0.000065)
PCBs-Filtered					
Aroclor-1254	Not Listed	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1260	Not Listed	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Total PCBs	0.0003	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Semivolatile Organics					
None Detected	--	--	--	--	--
Organochlorine Pesticides					
None Detected	--	--	--	--	--
Herbicides					
None Detected	--	--	--	--	--
Furans					
2,3,7,8-TCDF	Not Listed	ND(0.00000000060)	ND(0.0000000016) X	ND(0.0000000011)	ND(0.00000000090)
TCDFs (total)	Not Listed	ND(0.00000000060)	ND(0.0000000016) X	ND(0.0000000011)	ND(0.000000015) X
1,2,3,7,8-PeCDF	Not Listed	ND(0.00000000070)	0.0000000046 JB	ND(0.0000000025) X	ND(0.0000000011)
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000016) X	ND(0.0000000039) X	ND(0.0000000025) X	ND(0.0000000024) X
PeCDFs (total)	Not Listed	ND(0.0000000016) X	0.0000000046	ND(0.0000000051) X	ND(0.0000000024) X
1,2,3,4,7,8-HxCDF	Not Listed	0.0000000021 JB	0.0000000047 JB	ND(0.0000000026) X	ND(0.0000000031) X
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.00000000060)	0.0000000034 J	0.0000000030 J	ND(0.0000000022) X
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.00000000070)	0.0000000037 JB	0.0000000042 JB	0.0000000050 J
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.00000000060)	0.0000000032 J	0.0000000029 J	0.0000000030 J
HxCDFs (total)	Not Listed	0.0000000021	0.000000015	0.000000010	0.0000000080
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.00000000070)	0.0000000032 J	0.0000000024 J	ND(0.0000000015) X
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.00000000090)	ND(0.0000000027)	ND(0.0000000025) X	ND(0.0000000017)
HpCDFs (total)	Not Listed	ND(0.00000000080)	0.0000000032	0.0000000024	ND(0.0000000015) X
OCDF	Not Listed	ND(0.0000000018)	ND(0.0000000054)	ND(0.0000000042) X	ND(0.0000000035)
Dioxins					
2,3,7,8-TCDD	0.00000003	ND(0.00000000080)	ND(0.0000000022)	ND(0.0000000016)	0.0000000025 J
TCDDs (total)	Not Listed	ND(0.00000000080)	ND(0.0000000022)	ND(0.0000000016)	0.0000000025
1,2,3,7,8-PeCDD	Not Listed	ND(0.00000000080)	ND(0.0000000040) X	0.0000000030 J	ND(0.0000000052) X
PeCDDs (total)	Not Listed	ND(0.00000000080)	ND(0.0000000040) X	0.0000000030	ND(0.0000000052) X
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.00000000090)	0.0000000029 J	0.0000000017 J	ND(0.0000000015)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.00000000090)	ND(0.0000000026)	ND(0.0000000015)	ND(0.0000000015)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.00000000090)	0.0000000033 J	ND(0.0000000025) X	ND(0.0000000016) X
HxCDDs (total)	Not Listed	ND(0.00000000090)	0.0000000063	0.0000000017	ND(0.0000000016) X
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000012)	ND(0.0000000042)	0.0000000030 J	ND(0.0000000021)
HpCDDs (total)	Not Listed	ND(0.0000000012)	ND(0.0000000042)	0.0000000030	ND(0.0000000021)
OCDD	Not Listed	ND(0.0000000044) X	0.0000000079 J	0.0000000076 J	ND(0.000000015)
Total TEQ (WHO TEFs)	0.0000001	0.0000000017	0.0000000067	0.0000000061	0.0000000071
Inorganics-Unfiltered					
Copper	Not Applicable	ND(0.0250)	ND(0.0250)	ND(0.0250)	ND(0.0250)
Cyanide	0.01	ND(0.0100)	0.00490 B	0.00240 B	0.00530 B
Vanadium	Not Applicable	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	Not Applicable	0.00800 B	0.0200 B	0.0240	ND(0.0200)
Inorganics-Filtered					
Copper	Not Listed	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)
Vanadium	2	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	0.9	ND(0.0200)	ND(0.0200)	ND(0.0200)	0.0120 B

(See Notes on Page 4)

TABLE 7

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	GMA2-9 04/17/02	J-1R 04/15/02	OJ-MW-2 04/15/02
Volatile Organics				
Tetrachloroethene	5	ND(0.0020)	ND(0.0020)	ND(0.0020)
Trichloroethene	20	ND(0.0050)	0.0032 J	0.0029 J
Total VOCs	Not Listed	ND(0.20)	0.0032 J	0.0029 J
PCBs-Unfiltered				
Aroclor-1254	Not Applicable	0.000054 J	ND(0.000065)	ND(0.000065)
Aroclor-1260	Not Applicable	ND(0.000065)	ND(0.000065)	0.000031 J
Total PCBs	Not Applicable	0.000054 J	ND(0.000065)	0.000031 J
PCBs-Filtered				
Aroclor-1254	Not Listed	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1260	Not Listed	ND(0.000065)	ND(0.000065)	ND(0.000065)
Total PCBs	0.0003	ND(0.000065)	ND(0.000065)	ND(0.000065)
Semivolatile Organics				
None Detected	--	--	--	--
Organochlorine Pesticides				
None Detected	--	--	--	--
Herbicides				
None Detected	--	--	--	--
Furans				
2,3,7,8-TCDF	Not Listed	ND(0.0000000011)	ND(0.0000000013)	0.0000000051 J
TCDFs (total)	Not Listed	ND(0.0000000011)	ND(0.0000000013)	0.0000000051
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000010)	ND(0.0000000010) X	0.000000014 JB
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000010)	ND(0.0000000021) X	ND(0.0000000095) X
PeCDFs (total)	Not Listed	ND(0.0000000010)	ND(0.0000000031) X	0.000000014
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.00000000090)	0.0000000035 JB	0.000000012 JB
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.00000000090)	0.0000000034 J	0.0000000098 J
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000011)	0.0000000038 JB	ND(0.0000000078) X
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000010)	0.0000000022 J	0.0000000077 J
HxCDFs (total)	Not Listed	ND(0.0000000010)	0.000000013	0.000000029
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000011)	ND(0.0000000023) X	ND(0.0000000090) X
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000014)	0.0000000030 J	0.000000010 J
HpCDFs (total)	Not Listed	ND(0.0000000012)	0.0000000030	0.000000014
OCDF	Not Listed	ND(0.0000000020)	0.0000000063 J	0.000000027 J
Dioxins				
2,3,7,8-TCDD	0.00000003	ND(0.0000000014)	ND(0.0000000017)	0.0000000040 J
TCDDs (total)	Not Listed	ND(0.0000000014)	ND(0.0000000017)	0.0000000040
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000011)	0.0000000029 J	0.000000010 J
PeCDDs (total)	Not Listed	ND(0.0000000016) X	0.0000000029	0.000000010
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000011)	0.0000000037 J	ND(0.0000000068) X
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000011)	0.0000000028 J	ND(0.0000000089) X
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000011)	ND(0.0000000026) X	ND(0.0000000037) X
HxCDDs (total)	Not Listed	ND(0.0000000011)	0.0000000065	ND(0.0000000019) X
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000018)	ND(0.0000000019) X	0.000000012 J
HpCDDs (total)	Not Listed	ND(0.0000000018)	ND(0.0000000019) X	0.000000012
OCDD	Not Listed	ND(0.0000000059) X	ND(0.0000000078) X	0.000000039 J
Total TEQ (WHO TEFs)	0.0000001	0.0000000020	0.0000000065	0.000000022
Inorganics-Unfiltered				
Copper	Not Applicable	ND(0.0250)	ND(0.0250)	ND(0.0250)
Cyanide	0.01	0.0170	0.00320 B	0.00320 B
Vanadium	Not Applicable	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	Not Applicable	ND(0.0200)	0.0110 B	0.0360
Inorganics-Filtered				
Copper	Not Listed	ND(0.100)	ND(0.100)	ND(0.100)
Vanadium	2	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	0.9	0.00540 B	0.00680 B	0.0110 B

(See Notes on Page 4)

TABLE 7

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS

(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of PCBs and Appendix IX + 3 constituents.
2. Data validation has been performed on data set as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved October 17, 2000).
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. NS - Not Sampled - Parameter was not requested on sample chain of custody form.
5. With the exception of dioxin/furans, only those constituents detected in at least one sample are summarized.
6. 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.
7. Duplicate sample results are presented in brackets.
8. Shading indicates that value exceeds Method 1 GW-3 Standards.
9. -- Indicates that all constituents for the parameter group were not detected.

Data Qualifiers:

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

B - Analyte was also detected in the associated method blank.

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

X - Estimated maximum possible concentration.

Inorganics

B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).

TABLE 8

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 3 UCLs

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL	GMA2-1 04/15/02	GMA2-2 04/15/02	GMA2-3 04/15/02	GMA2-4 04/17/02
Volatile Organics					
Tetrachloroethene	50	ND(0.0020)	0.0018 J [0.0020]	ND(0.0020)	ND(0.0020)
Trichloroethene	100	ND(0.0050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Total VOCs	Not Listed	ND(0.20)	0.0018 J [0.0020]	ND(0.20)	ND(0.20)
PCBs-Unfiltered					
Aroclor-1254	Not Listed	0.00019	0.000038 J [0.000048 J]	NS	ND(0.000065)
Aroclor-1260	Not Listed	ND(0.000065)	ND(0.000065) [0.000026 J]	NS	ND(0.000065)
Total PCBs	0.005	0.00019	0.000038 J [0.000074 J]	NS	ND(0.000065)
PCBs-Filtered					
Aroclor-1254	Not Listed	0.000072	ND(0.000065) [ND(0.000065)]	NS	ND(0.000065)
Aroclor-1260	Not Listed	ND(0.000065)	ND(0.000065) [ND(0.000065)]	NS	ND(0.000065)
Total PCBs	0.005	0.000072	ND(0.000065) [ND(0.000065)]	NS	ND(0.000065)
Semivolatile Organics					
None Detected	--	--	--	NS	--
Organochlorine Pesticides					
None Detected	--	--	--	NS	--
Herbicides					
None Detected	--	--	--	NS	--
Furans					
2,3,7,8-TCDF	Not Listed	0.0000000055 J	ND(0.0000000012) [0.0000000014 J]	NS	ND(0.0000000017) X
TCDFs (total)	Not Listed	ND(0.000000012) X	ND(0.0000000012) [0.0000000014]	NS	ND(0.0000000017) X
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000037) X	ND(0.0000000013) [0.0000000050 JB]	NS	ND(0.0000000060) X
2,3,4,7,8-PeCDF	Not Listed	0.0000000063 J	ND(0.0000000012) [ND(0.0000000049) X]	NS	ND(0.0000000069) X
PeCDFs (total)	Not Listed	ND(0.000000020) X	ND(0.0000000013) [0.0000000050]	NS	ND(0.000000013) X
1,2,3,4,7,8-HxCDF	Not Listed	0.0000000055 JB	ND(0.0000000011) [0.0000000034 JB]	NS	0.0000000075 JB
1,2,3,6,7,8-HxCDF	Not Listed	0.0000000033 J	ND(0.0000000011) [0.0000000031 J]	NS	0.0000000047 J
1,2,3,7,8,9-HxCDF	Not Listed	0.0000000039 JB	ND(0.0000000013) [0.0000000038 JB]	NS	0.000000012 J
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000012)	ND(0.0000000011) [0.0000000026 J]	NS	0.0000000073 J
HxCDFs (total)	Not Listed	0.000000035	ND(0.0000000012) [0.0000000013]	NS	0.000000032
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000065) X	ND(0.0000000014) [0.0000000034 J]	NS	ND(0.0000000045) X
1,2,3,4,7,8,9-HpCDF	Not Listed	0.0000000028 J	ND(0.0000000017) [0.0000000021 J]	NS	0.0000000092 J
HpCDFs (total)	Not Listed	0.0000000090	ND(0.0000000015) [0.0000000055]	NS	0.0000000092
OCDF	Not Listed	ND(0.0000000094) X	ND(0.0000000027) [0.0000000029 J]	NS	ND(0.000000015) X
Dioxins					
2,3,7,8-TCDD	0.0000001	ND(0.0000000015)	ND(0.0000000015) [ND(0.0000000013) X]	NS	ND(0.0000000019) X
TCDDs (total)	Not Listed	ND(0.0000000015)	ND(0.0000000015) [ND(0.0000000013) X]	NS	ND(0.0000000019) X
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000030) X	ND(0.0000000014) [0.0000000032 J]	NS	0.0000000076 J
PeCDDs (total)	Not Listed	ND(0.0000000030) X	ND(0.0000000014) [0.0000000032]	NS	0.0000000076
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000018)	ND(0.0000000015) [0.0000000029 J]	NS	0.0000000057 J
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000018)	ND(0.0000000016) [0.0000000035 J]	NS	0.0000000068 J
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000018)	ND(0.0000000015) [0.0000000036 J]	NS	0.000000012 J
HxCDDs (total)	Not Listed	ND(0.0000000018)	ND(0.0000000015) [0.000000010]	NS	0.000000025
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000037) X	ND(0.0000000025) [0.0000000020 J]	NS	ND(0.0000000079) X
HpCDDs (total)	Not Listed	ND(0.0000000037) X	ND(0.0000000025) [0.0000000020]	NS	ND(0.0000000079) X
OCDD	Not Listed	0.000000017 J	0.0000000053 J [ND(0.0000000054) X]	NS	ND(0.000000020)
Total TEQ (WHO TEFs)	0.00001	0.0000000077	0.0000000023 [0.0000000078]	NS	0.000000016
Inorganics-Unfiltered					
Copper	Not Listed	ND(0.0250)	ND(0.0250) [ND(0.0250)]	NS	ND(0.0250)
Cyanide	2	0.0180	ND(0.0100) [ND(0.0100)]	NS	ND(0.0100)
Vanadium	20	ND(0.0500)	ND(0.0500) [ND(0.0500)]	NS	ND(0.0500)
Zinc	20	0.0120 B	0.00640 B [0.0130 B]	NS	ND(0.0200)
Inorganics-Filtered					
Copper	Not Listed	0.00450 B	ND(0.100) [ND(0.100)]	NS	ND(0.100)
Vanadium	20	ND(0.0500)	0.00380 B [0.00370 B]	NS	ND(0.0500)
Zinc	20	0.0120 B	ND(0.0200) [ND(0.0200)]	NS	ND(0.0200)

(See Notes on Page 4)

TABLE 8

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 3 UCLs

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL	GMA2-5 04/17/02	GMA2-6 04/15/02	GMA2-7 04/15/02	GMA2-8 04/16/02	GMA2-9 04/17/02
Volatile Organics						
Tetrachloroethene	50	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Trichloroethene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total VOCs	Not Listed	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)
PCBs-Unfiltered						
Aroclor-1254	Not Listed	0.000035 J	ND(0.000065)	ND(0.000065)	ND(0.000065)	0.000054 J
Aroclor-1260	Not Listed	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Total PCBs	0.005	0.000035 J	ND(0.000065)	ND(0.000065)	ND(0.000065)	0.000054 J
PCBs-Filtered						
Aroclor-1254	Not Listed	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1260	Not Listed	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Total PCBs	0.005	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Semivolatile Organics						
None Detected	--	--	--	--	--	--
Organochlorine Pesticides						
None Detected	--	--	--	--	--	--
Herbicides						
None Detected	--	--	--	--	--	--
Furans						
2,3,7,8-TCDF	Not Listed	ND(0.00000000060)	ND(0.0000000016) X	ND(0.0000000011)	ND(0.00000000090)	ND(0.0000000011)
TCDFs (total)	Not Listed	ND(0.00000000060)	ND(0.0000000016) X	ND(0.0000000011)	ND(0.000000015) X	ND(0.0000000011)
1,2,3,7,8-PeCDF	Not Listed	ND(0.00000000070)	0.0000000046 JB	ND(0.0000000025) X	ND(0.0000000011)	ND(0.0000000010)
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000016) X	ND(0.0000000039) X	ND(0.0000000025) X	ND(0.0000000024) X	ND(0.0000000010)
PeCDFs (total)	Not Listed	ND(0.0000000016) X	0.0000000046	ND(0.0000000051) X	ND(0.0000000024) X	ND(0.0000000010)
1,2,3,4,7,8-HxCDF	Not Listed	0.0000000021 JB	0.0000000047 JB	ND(0.0000000026) X	ND(0.0000000031) X	ND(0.00000000090)
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.00000000060)	0.0000000034 J	0.0000000030 J	ND(0.0000000022) X	ND(0.00000000090)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.00000000070)	0.0000000037 JB	0.0000000042 JB	0.0000000050 J	ND(0.0000000011)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.00000000060)	0.0000000032 J	0.0000000029 J	0.0000000030 J	ND(0.0000000010)
HxCDFs (total)	Not Listed	0.0000000021	0.000000015	0.000000010	0.0000000080	ND(0.0000000010)
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.00000000070)	0.0000000032 J	0.0000000024 J	ND(0.0000000015) X	ND(0.0000000011)
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.00000000090)	ND(0.0000000027)	ND(0.0000000025) X	ND(0.0000000017)	ND(0.0000000014)
HpCDFs (total)	Not Listed	ND(0.00000000080)	0.0000000032	0.0000000024	ND(0.0000000015) X	ND(0.0000000012)
OCDF	Not Listed	ND(0.0000000018)	ND(0.0000000054)	ND(0.0000000042) X	ND(0.0000000035)	ND(0.0000000020)
Dioxins						
2,3,7,8-TCDD	0.0000001	ND(0.00000000080)	ND(0.0000000022)	ND(0.0000000016)	0.0000000025 J	ND(0.0000000014)
TCDDs (total)	Not Listed	ND(0.00000000080)	ND(0.0000000022)	ND(0.0000000016)	0.0000000025	ND(0.0000000014)
1,2,3,7,8-PeCDD	Not Listed	ND(0.00000000080)	ND(0.0000000040) X	0.0000000030 J	ND(0.0000000052) X	ND(0.0000000011)
PeCDDs (total)	Not Listed	ND(0.00000000080)	ND(0.0000000040) X	0.0000000030	ND(0.0000000052) X	ND(0.0000000016) X
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.00000000090)	0.0000000029 J	0.0000000017 J	ND(0.0000000015)	ND(0.0000000011)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.00000000090)	ND(0.0000000026)	ND(0.0000000015)	ND(0.0000000015)	ND(0.0000000011)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.00000000090)	0.0000000033 J	ND(0.0000000025) X	ND(0.0000000016) X	ND(0.0000000011)
HxCDDs (total)	Not Listed	ND(0.00000000090)	0.0000000063	0.0000000017	ND(0.0000000016) X	ND(0.0000000011)
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000012)	ND(0.0000000042)	0.0000000030 J	ND(0.0000000021)	ND(0.0000000018)
HpCDDs (total)	Not Listed	ND(0.0000000012)	ND(0.0000000042)	0.0000000030	ND(0.0000000021)	ND(0.0000000018)
OCDD	Not Listed	ND(0.0000000044) X	0.0000000079 J	0.0000000076 J	ND(0.000000015)	ND(0.0000000059) X
Total TEQ (WHO TEFs)	0.000001	0.0000000017	0.0000000067	0.0000000061	0.0000000071	0.0000000020
Inorganics-Unfiltered						
Copper	Not Listed	ND(0.0250)	ND(0.0250)	ND(0.0250)	ND(0.0250)	ND(0.0250)
Cyanide	2	ND(0.0100)	0.00490 B	0.00240 B	0.00530 B	0.0170
Vanadium	20	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	20	0.00800 B	0.0200 B	0.0240	ND(0.0200)	ND(0.0200)
Inorganics-Filtered						
Copper	Not Listed	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)
Vanadium	20	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc	20	ND(0.0200)	ND(0.0200)	ND(0.0200)	0.0120 B	0.00540 B

(See Notes on Page 4)

TABLE 8

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 3 UCLs

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL	J-1R 04/15/02	OJ-MW-2 04/15/02
Volatile Organics			
Tetrachloroethene	50	ND(0.0020)	ND(0.0020)
Trichloroethene	100	0.0032 J	0.0029 J
Total VOCs	Not Listed	0.0032 J	0.0029 J
PCBs-Unfiltered			
Aroclor-1254	Not Listed	ND(0.000065)	ND(0.000065)
Aroclor-1260	Not Listed	ND(0.000065)	0.000031 J
Total PCBs	0.005	ND(0.000065)	0.000031 J
PCBs-Filtered			
Aroclor-1254	Not Listed	ND(0.000065)	ND(0.000065)
Aroclor-1260	Not Listed	ND(0.000065)	ND(0.000065)
Total PCBs	0.005	ND(0.000065)	ND(0.000065)
Semivolatile Organics			
None Detected	--	--	--
Organochlorine Pesticides			
None Detected	--	--	--
Herbicides			
None Detected	--	--	--
Furans			
2,3,7,8-TCDF	Not Listed	ND(0.0000000013)	0.0000000051 J
TCDFs (total)	Not Listed	ND(0.0000000013)	0.0000000051
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000010) X	0.000000014 JB
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000021) X	ND(0.0000000095) X
PeCDFs (total)	Not Listed	ND(0.0000000031) X	0.000000014
1,2,3,4,7,8-HxCDF	Not Listed	0.0000000035 JB	0.000000012 JB
1,2,3,6,7,8-HxCDF	Not Listed	0.0000000034 J	0.0000000098 J
1,2,3,7,8,9-HxCDF	Not Listed	0.0000000038 JB	ND(0.0000000078) X
2,3,4,6,7,8-HxCDF	Not Listed	0.0000000022 J	0.0000000077 J
HxCDFs (total)	Not Listed	0.000000013	0.000000029
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000023) X	ND(0.0000000090) X
1,2,3,4,7,8,9-HpCDF	Not Listed	0.0000000030 J	0.000000010 J
HpCDFs (total)	Not Listed	0.0000000030	0.000000014
OCDF	Not Listed	0.0000000063 J	0.000000027 J
Dioxins			
2,3,7,8-TCDD	0.0000001	ND(0.0000000017)	0.0000000040 J
TCDDs (total)	Not Listed	ND(0.0000000017)	0.0000000040
1,2,3,7,8-PeCDD	Not Listed	0.0000000029 J	0.000000010 J
PeCDDs (total)	Not Listed	0.0000000029	0.000000010
1,2,3,4,7,8-HxCDD	Not Listed	0.0000000037 J	ND(0.0000000068) X
1,2,3,6,7,8-HxCDD	Not Listed	0.0000000028 J	ND(0.0000000089) X
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000026) X	ND(0.0000000037) X
HxCDDs (total)	Not Listed	0.0000000065	ND(0.000000019) X
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000019) X	0.000000012 J
HpCDDs (total)	Not Listed	ND(0.0000000019) X	0.000000012
OCDD	Not Listed	ND(0.0000000078) X	0.000000039 J
Total TEQ (WHO TEFs)	0.000001	0.0000000065	0.000000022
Inorganics-Unfiltered			
Copper	Not Listed	ND(0.0250)	ND(0.0250)
Cyanide	2	0.00320 B	0.00320 B
Vanadium	20	ND(0.0500)	ND(0.0500)
Zinc	20	0.0110 B	0.0360
Inorganics-Filtered			
Copper	Not Listed	ND(0.100)	ND(0.100)
Vanadium	20	ND(0.0500)	ND(0.0500)
Zinc	20	0.00680 B	0.0110 B

(See Notes on Page 4)

TABLE 8

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS J&K GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 3 UCLs

(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of PCBs and other Appendix IX + 3 constituents.
2. Data validation has been performed on data set as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved October 17, 2000).
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. NS - Not Sampled - Parameter was not requested on sample chain of custody form.
5. With the exception of dioxin/furans, only those constituents detected in at least one sample are summarized.
6. 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.
7. Duplicate sample results are presented in brackets.
8. -- Indicates that all constituents for the parameter group were not detected.

Data Qualifiers:

Organics (volatiles, PCBs, semi-volatiles, pesticides, herbicides, dioxin/furans)

B - Analyte was also detected in the associated method blank.

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

X - Estimated maximum possible concentration.

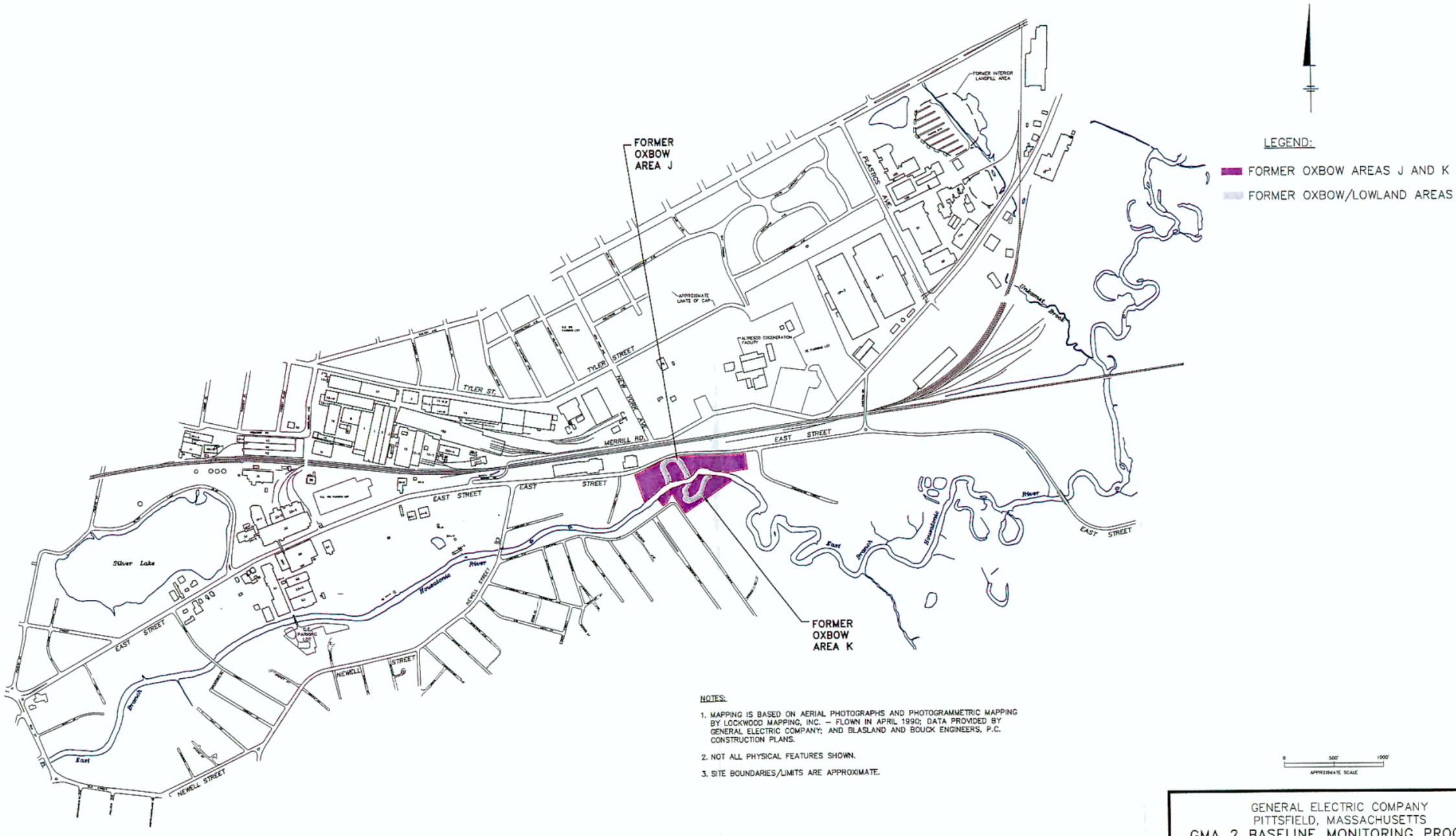
Inorganics

B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).

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

Figures

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



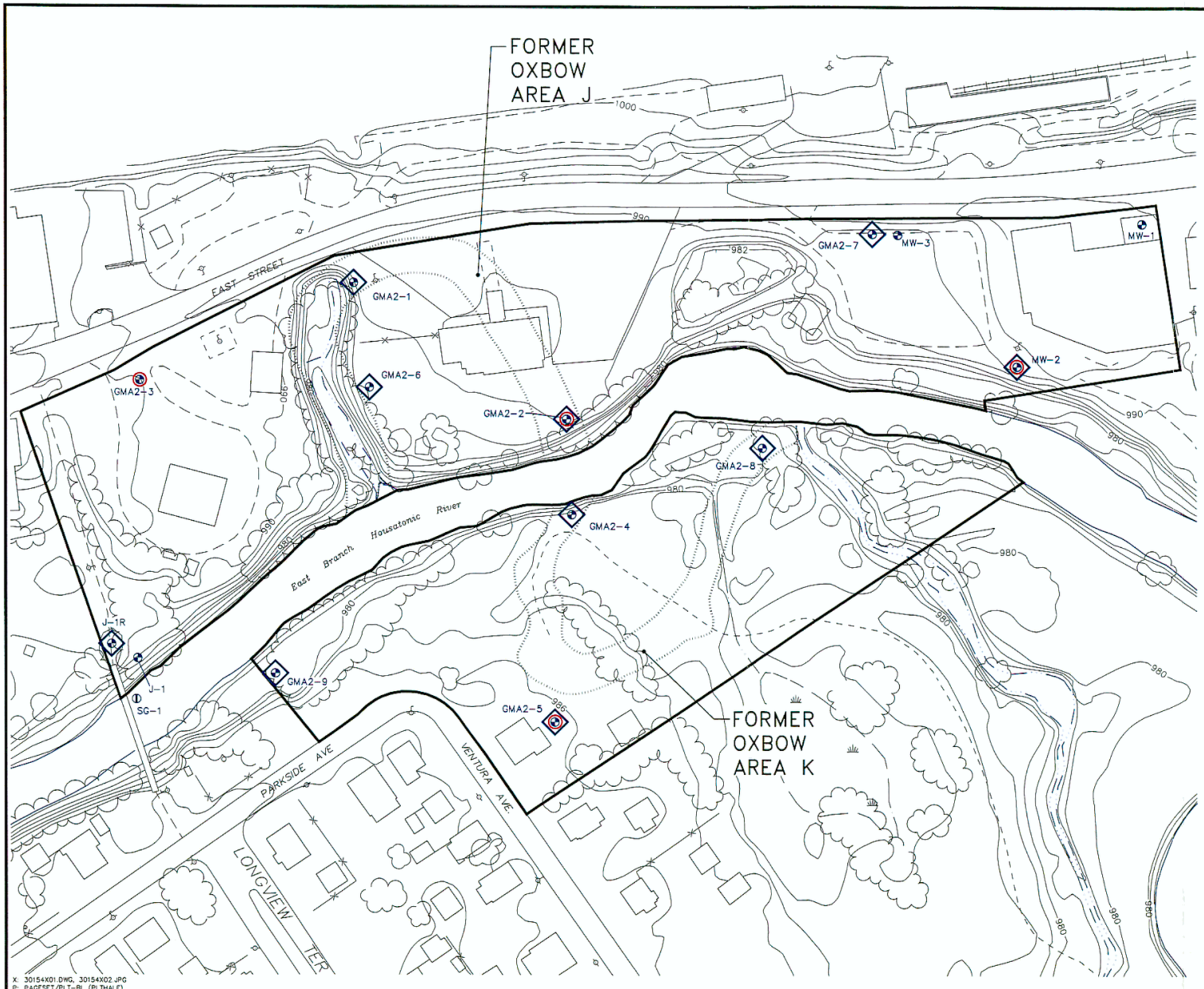
X: NONE
L: ON=*, OFF=REF*
P: PAGESET/PLT-BL (PLTHALF)
7/30/02 SYR-54-LAS PGL DMW
N/30154001/30154G21.DWG

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 2 BASELINE MONITORING PROGRAM

SITE LOCATION

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

FIGURE 1



LEGEND

- GMA 2 SITE BOUNDARY
- FORMER OXBOW/LOWLAND AREAS
- FENCE
- MONITORING WELL LOCATION
- STAFF GAUGE
- GW-2 SENTINEL/COMPLIANCE WELL SUBJECT TO SAMPLING AND ANALYSIS
- GW-3 PERIMETER WELL SUBJECT TO SAMPLING AND ANALYSIS

GENERAL NOTES:

1. BASE MAP MODIFIED FROM PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC – FLOWN IN APRIL 1990.
2. FORMER RIVER CHANNEL AND LOWLAND AREAS DELINEATED USING THE CITY OF PITTSFIELD'S RECHANNELIZATION MAPPING, 1940.
3. PROPERTY BOUNDARIES ARE APPROXIMATE ONLY.

0 100' 200'

GRAPHIC SCALE

X: 30154X01.DWG, 30154X02.JPG
P: PAGESET/PLT-BL (PLTHALF)
7/29/02 SYR-54-DMW, NES, PGL
N: 30154001/30154G19.DWG

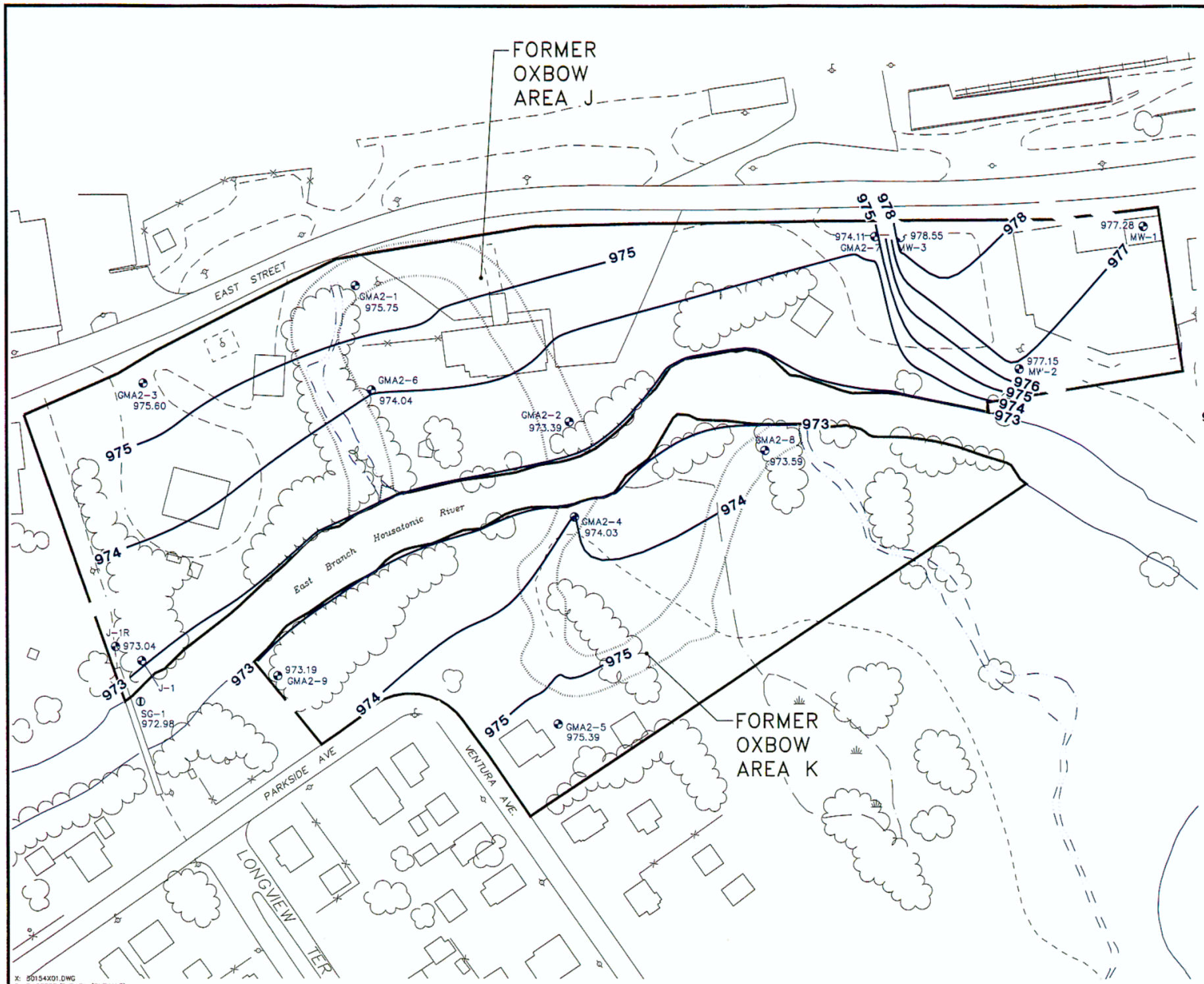
GENERAL ELECTRIC COMPANY
PITTSFIELD MASSACHUSETTS

GMA 2 BASELINE MONITORING PROGRAM

BASELINE MONITORING WELL LOCATIONS- SPRING 2002

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

FIGURE 2



LEGEND

- GMA 2 SITE BOUNDARY
- FORMER OXBOW/LOWLAND AREAS
- FENCE
- GROUNDWATER MONITORING WELL LOCATION
- STAFF GAUGE
- (973.19) GROUNDWATER ELEVATION (FT AMSL)
- 973 GROUNDWATER ELEVATION CONTOUR LINE (FT AMSL)

GENERAL NOTES:

1. BASE MAP MODIFIED FROM PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC – FLOWN IN APRIL 1990.
2. FORMER RIVER CHANNEL AND LOWLAND AREAS DELINEATED USING THE CITY OF PITTSFIELD'S RECHANNELIZATION MAPPING, 1940.
3. GROUNDWATER LEVEL MEASUREMENTS OBTAINED JANUARY 14, 2002.
4. RIVER STAFF GAUGE MEASUREMENT OBTAINED DECEMBER 5, 2001.

0 100' 200'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD MASSACHUSETTS

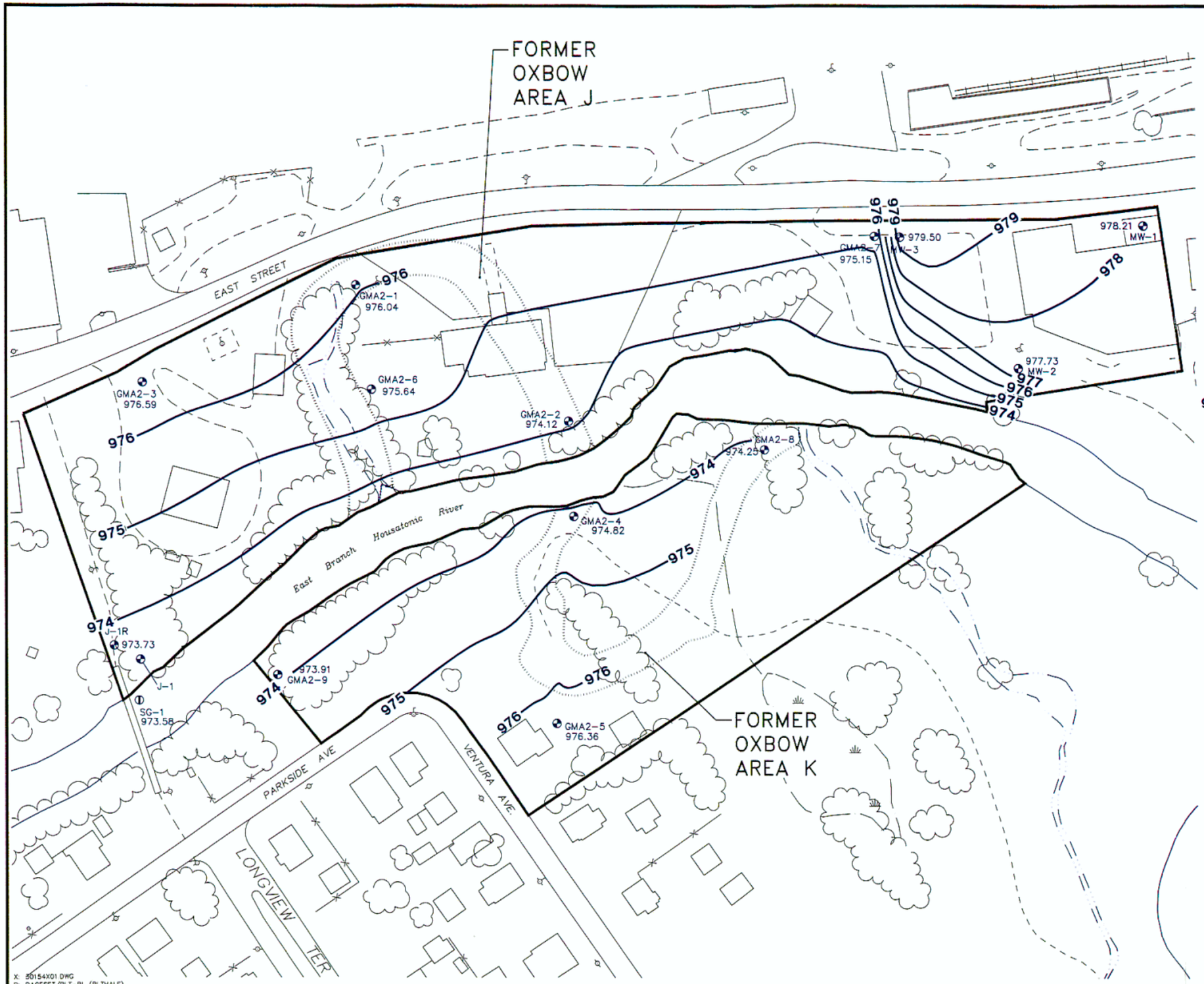
GMA 2 BASELINE MONITORING PROGRAM

WATER-TABLE CONTOUR MAP - WINTER 2002

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

FIGURE 3

X: 30154X01.DWG
P: PAGESET/PLT-BL (PLTHALF)
7/30/02 SYR-54-DMW PGL DMW
N/30154001/30154G10.DWG



LEGEND

- GMA 2 SITE BOUNDARY
- FORMER OXBOW/LOWLAND AREAS
- FENCE
- GROUNDWATER MONITORING WELL LOCATION
- STAFF GAUGE
- (978.21) GROUNDWATER ELEVATION (FT AMSL)
- 974 GROUNDWATER ELEVATION CONTOUR LINE (FT AMSL)

GENERAL NOTES:

1. BASE MAP MODIFIED FROM PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC – FLOWN IN APRIL 1990.
2. FORMER RIVER CHANNEL AND LOWLAND AREAS DELINEATED USING THE CITY OF PITTSFIELD'S RECHANNELIZATION MAPPING, 1940.
3. GROUNDWATER LEVEL MEASUREMENTS OBTAINED APRIL 12, 2002.

0 100' 200'

GRAPHIC SCALE

X: 30154X01.DWG
P: PAGESET/PLT-BL (PLTHALF)
7/30/02 SYR-54-DMW PGL DMW
N: 30154001/30154W01.DWG

GENERAL ELECTRIC COMPANY
PITTSFIELD MASSACHUSETTS

GMA 2 BASELINE MONITORING PROGRAM

WATER-TABLE CONTOUR MAP - SPRING 2002

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

FIGURE 4

Appendices

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

Appendix A

Monitoring Well Logs

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

Date Start/Finish: 11/7/01
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck Mounted Power Probe 9600

Northing: 534402.6000
Easting: 135510.2000
Casing Elevation: 991.36

Borehole Depth: 20' bgs
Surface Elevation: 988.30

Descriptions By: Jeff Bishop

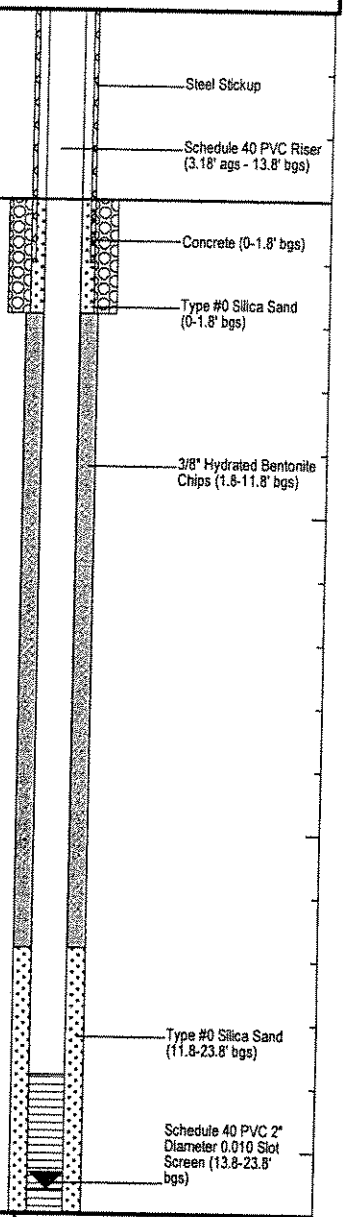
Well ID: GMA2-1

Client: General Electric Company

Location: Oxbow Areas J and K
Groundwater Management Area 2
1350 East St. - Pittsfield, MA

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
990 / 0						
	1	0-4	2.8	NA		Dark to medium brown fine SAND with large to medium subangular Gravel.
985 / 5						Medium brown fine SAND with fine to medium subrounded Gravel
	2	4-8	3.0	NA		
980 / 10						Light to medium brown fine SAND.
	3	8-12	3.0	NA		Medium to dark brown fine to medium SAND with medium subangular Gravel.
975 / 15						Dark brown fine to medium SAND.
	4	12-16	2.0	NA		

Well Construction



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

Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/16/02	15.61	975.75

Project:301.54.001 Template:J:/Rockware/Logplot2001/Logfiles/30154/GMA2-1.ldf
Data FileGMA2-1.dat Date:7/18/02

Client:
General Electric Company

Site Location:
Oxbow Areas J and K
Groundwater Management Area 2
1350 East St. - Pittsfield, MA

Well ID: GMA2-1

Borehole Depth: 20' bgs

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
970	5	16-20	2.5	NA		Light to medium brown fine to medium SAND.	Type #0 Silica Sand (11.8-23.8' bgs)
20						Light to medium brown fine SAND.	Schedule 40 PVC 2" Diameter 0.010 Slot Screen (13.8-23.8' bgs)
965							PVC Cap
25							
960							
30							
955							
35							

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

Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/16/02	15.61	975.75

Project:301.54.001 Template:J:/Rockware/Logplot2001/Logfiles/30154/GMA2-1.ldf
Data FileGMA2-1.dat Date:7/18/02

Date Start/Finish: 11/6/01
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck Mounted Power Probe 9600

Northing: 534264.3000
Easting: 135725.0000
Casing Elevation: 991.19

Borehole Depth: 20' bgs
Surface Elevation: 988.10

Descriptions By: Jeff Bishop

Well ID: GMA2-2

Client: General Electric Company

Location: Oxbow Areas J and K
Groundwater Management Area 2
1350 East St. - Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
990 / 0						
	1	0-4	3.0	NA		Dark brown fine SAND and SILT with trace grass and natural organic debris.
985 / 5						Dark brown fine to medium SAND with subangular Gravel, trace brick 2-3' bgs.
	2	4-8	3.2	NA		Dark to light brown fine SAND with medium subangular Gravel.
980 / 10	3	8-12	3.5	NA		Light to medium brown fine SAND and SILT with medium to coarse subangular Gravel.
						Medium to dark brown fine SAND and SILT.
975 / 15	4	12-16	4.0	NA		Dark brown fine to coarse SAND.

Well Construction:
- Steel Stickup
- Schedule 40 PVC Riser (3.29' ags - 12.94' bgs)
- Concrete (0-1.94' bgs)
- Type #0 Silica Sand (0-1.94' bgs)
- 3/8" Hydrated Bentonite Chips (1.94-10.94' bgs)
- Type #0 Silica Sand (12.94-22.94' bgs)
- Schedule 40 PVC 2" Diameter 0.010 Slot Screen (12.94-22.94' bgs)

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

Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/16/02	17.99	973.20

Project:301.54.001 Template:J:/Rockware/Logplot2001/Logfiles/30154/GMA2-2.ldf
Data File:GMA2-2.dat Date:7/18/02

Client:
General Electric Company

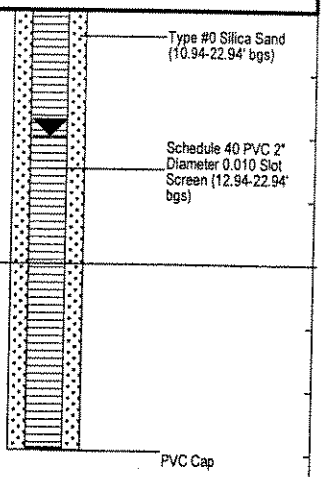
Site Location:
Oxbow Areas J and K
Groundwater Management Area 2
1350 East St. - Pittsfield, MA

Well ID: GMA2-2

Borehole Depth: 20' bgs

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
970	5	16-20	4.0	NA		Medium to dark brown fine to medium SAND.
20						Light to medium brown fine to medium SAND with small to medium subangular Gravel, saturated.
965						
25						
960						
30						
955						
35						

Well Construction



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

Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/16/02	17.99	973.20

Date Start/Finish: 10/10/01
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck Mounted Power Probe 9600

Northing: 534264.3000
Easting: 135725.0000
Casing Elevation: 991.48

Borehole Depth: 16' bgs
Surface Elevation: 991.59

Descriptions By: Brett Kameinski

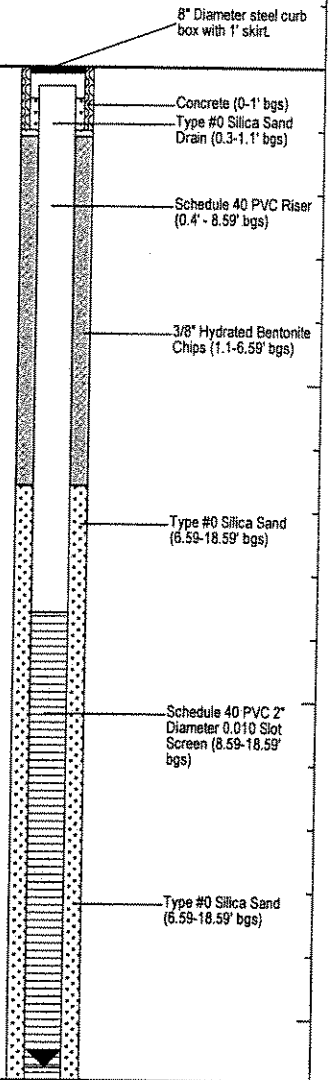
Well ID: GMA2-3

Client: General Electric Company

Location: Oxbow Areas J and K
Groundwater Management Area 2
1330 East St. - Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 990	1	0-4	3.1	NA		Brown to light brown fine to coarse SAND with medium to coarse subangular Gravel.
						Same as above, trace subangular Gravel.
						Brown to black coarse SAND with Ash, Brick, Coal and Slag. FILL.
5 / 985	2	4-8	2.5	NA		
						Light yellow-brown fine to medium rounded SAND with fine subrounded Gravel.
						Light brown medium to coarse rounded SAND with fine subrounded Gravel.
10 / 980	3	8-12	3.7	NA		Light brown fine to medium SAND, trace Silt and fine subrounded Gravel.
						Light brown fine SAND and SILT, trace fine to medium subrounded Gravel, very moist.
15	4	12-16	4	NA		Saturated.

Well Construction



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

Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
17/16/01	15.41	976.07

Client:
General Electric Company

Site Location:
Oxbow Areas J and K
Groundwater Management Area 2
1330 East St. - Pittsfield, MA

Well ID: GMA2-3

Borehole Depth: 16' bgs

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
975							Schedule 40 PVC 2" Diameter 0.010 Slot Screen (8.59-18.59' bgs)
20							PVC Cap
970							
25							
965							
30							
960							
35							

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

Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
17/16/01	15.41	976.07

Date Start/Finish: 10/18/01
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck Mounted Power Probe 9600

Northing: 534167.6000
Easting: 135730.0000
Casing Elevation: 983.41

Borehole Depth: 16' bgs
Surface Elevation: 980.30

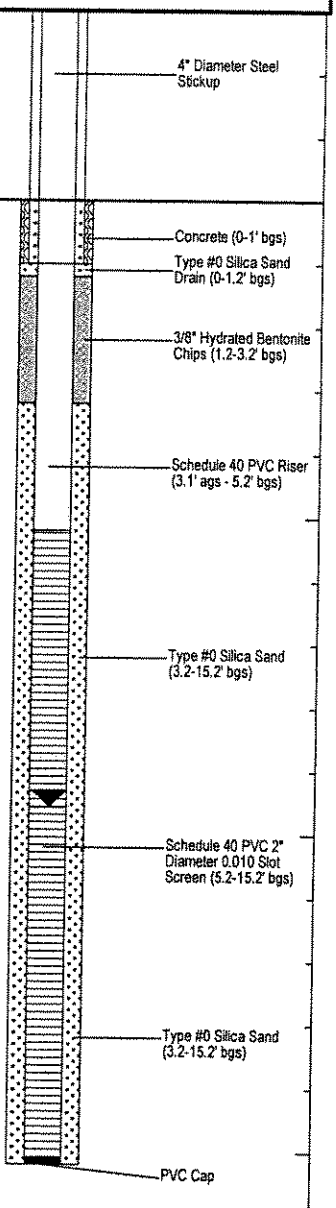
Descriptions By: Brett Kameinski

Well ID: GMA2-4

Client: General Electric Company

Location: Oxbow Areas J and K
Groundwater Management Area 2
Lot K10-10-4 Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 980	1	0-4	3.0	NA		Dark brown fine Sandy SILT/LOAM, trace grass rootlets.
						Dark brown to brown fine SAND, trace fine subrounded Gravel and Silt.
5 / 975	2	4-8	3.8	NA		Dark brown fine SAND and SILT, moist, trace organic debris. Saturated at 6' bgs.
10 / 970	3	8-12	3.6	NA		Dark brown fine SAND, little Silt with fine subrounded Gravel, saturated.
	4	12-16	4.0	NA		Gray SILT, little fine Sand.
15 / 965						Dark brown PEAT.



Well Construction

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

Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/17/02	9.57	973.84

Date Start/Finish: 10/9/01
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck Mounted Power Probe 9600

Northing: 533956.6000
Easting: 135712.8000
Casing Elevation: 985.85

Borehole Depth: 16' bgs
Surface Elevation: 986.11

Descriptions By: Brett Kameinski

Well ID: GMA2-5

Client: General Electric Company

Location: Oxbow Areas J and K
Groundwater Management Area 2
7 Ventura Ave. - Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 985	1	0-4	3.1	0.0		Dark brown fine to medium SAND with grass and roots, trace fine subangular Gravel.
						Brown fine to medium SAND, trace fine Gravel and Coal.
						Light brown fine SAND, trace Silt.
5 / 980	2	4-8	3.8	0.0		Light brown fine to medium rounded SAND.
						Light brown fine SAND.
10 / 975	3	8-12	3.6	0.0		Light brown fine SAND, trace fine subrounded Gravel. Saturated at 10.7' bgs.
	4	12-16	4.0	0.0		From 12-16' bgs: Light brown fine "running sand", saturated.
15						

Well Construction

- 8" Diameter steel curb box with 1' skirt.
- Concrete (0-1' bgs)
- Type #0 Silica Sand Drain (0.5-1.1' bgs)
- Schedule 40 PVC Riser (0.3' - 5.98' bgs)
- 3/8" Hydrated Bentonite Chips (1-3.98' bgs)
- Type #0 Silica Sand (3.98-15.98' bgs)
- Schedule 40 PVC 2" Diameter 0.010 Slot Screen (5.98-15.98' bgs)

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

Remarks:

Water Level Data

Date	Depth	Elev.
7/17/02	10.6	975.25

Date Start/Finish: 11/08/02
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck Mounted Power Probe 9600

Northing: 534296.4000
Easting: 135526.0000
Casing Elevation: 989.73

Borehole Depth: 20' bgs
Surface Elevation: 986.30

Descriptions By: Jeff Bishop

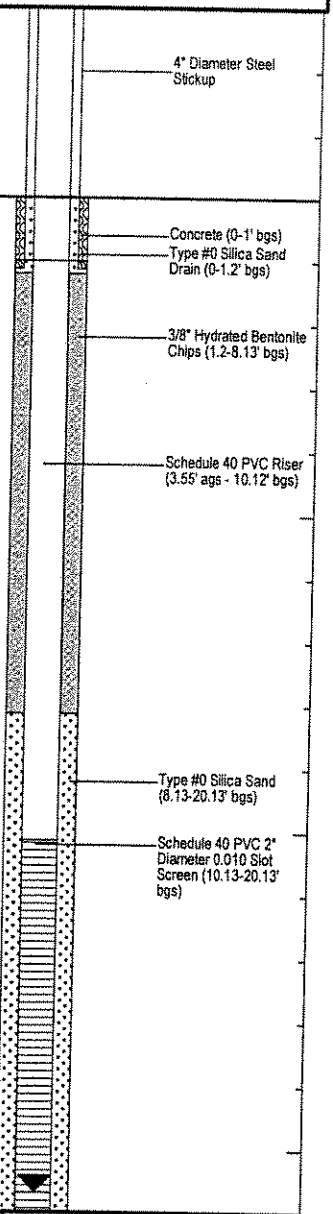
Well ID: GMA2-6

Client: General Electric Company

Location: Oxbow Areas J and K
Groundwater Management Area 2
1350 East St. - Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 985	1	0-4	1.5	NA		Dark to medium brown fine to medium SAND with medium to coarse subangular Gravel.
5 / 980	2	4-8	1.5	NA		Light to dark brown fine to medium SAND with medium subangular Gravel.
10 / 975	3	8-12	4.0	NA		Light to medium brown fine SAND, trace Silt.
						Dark brown fine SAND and SILT.
15	4	12-16	3.5	NA		Gray fine to coarse SAND with fine subrounded Gravel.

Well Construction



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

Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/16/02	15.68	974.05

Client:
General Electric Company

Site Location:
Oxbow Areas J and K
Groundwater Management Area 2
1350 East St. - Pittsfield, MA

Well ID: GMA2-6

Borehole Depth: 20' bgs

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
970						Light to medium brown medium to coarse SAND.	Type #0 Silica Sand (8.13-20.13' bgs)
	5	16-20	4.0	NA		Light brown fine to medium SAND, saturated.	Schedule 40 PVC 2" Diameter 0.010 Slot Screen (10.13-20.13' bgs)
20							PVC Cap
965							
25							
960							
30							
955							
35							

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

Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/16/02	15.68	974.05

Project:301.54.001 Template:J:/Rockware/Logplot2001/Logfiles/30154/GMA2-3.ldf
Data File:GMA2-6.dat Date:7/22/02

Date Start/Finish: 12/05/01
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck Mounted Power Probe 9600

Northing: 534452.3000
Easting: 136034.5000
Casing Elevation: 989.64

Borehole Depth: 16' bgs
Surface Elevation: 989.84

Descriptions By: Jeff Bishop

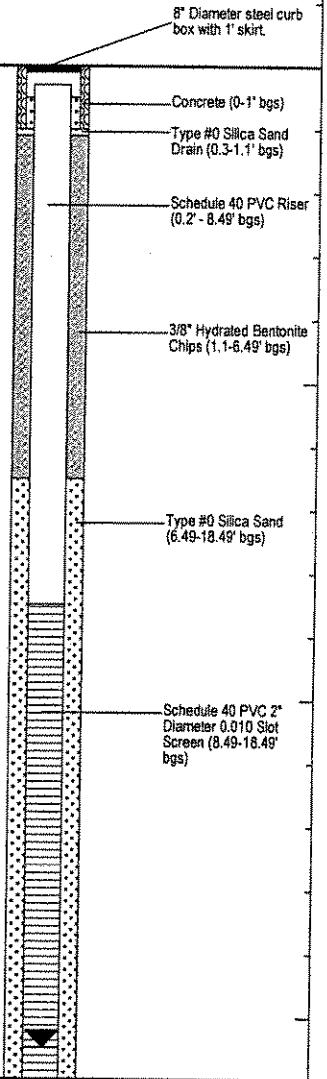
Well ID: GMA2-7

Client: General Electric Company

Location: Oxbow Areas J and K
Groundwater Management Area 2
1400 East St. - Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 990						
	1	0-4	3.1	NA		Dark brown fine SAND, trace Silt, roots.
						Light brown fine SAND, trace fine Gravel.
						Dark brown fine SAND, trace Silt and fine to coarse Gravel.
5 / 985	2	4-8	3.8	NA		Brown fine to coarse SAND and fine to medium GRAVEL.
						Dark brown medium to coarse SAND and fine to medium GRAVEL.
10 / 980	3	8-12	3.6	NA		Light brown-gray fine SAND and SILT, moist.
						Coarse SAND, trace fine Gravel, moist.
						Gray/brown fine SAND, trace Silt, moist.
15 / 975	4	12-16	4.0	NA		Orange/brown fine to coarse SAND, some Silt, saturated.

Well Construction



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

Remarks:

Water Level Data

Date	Depth	Elev.
7/16/02	15.48	974.16

Client:
General Electric Company

Site Location:
Oxbow Areas J and K
Groundwater Management Area 2
1400 East St. - Pittsfield, MA

Well ID: GMA2-7

Borehole Depth: 16' bgs

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
20 970							Schedule 40 PVC 2" Diameter 0.010 Slot Screen (8.49-18.49' bgs); Type #0 Silica Sand (6.49-18.49' bgs); PVC Cap
25 965							
30 960							
35 955							

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

Remarks:

Water Level Data

Date	Depth	Elev.
7/16/02	15.48	974.16

Date Start/Finish: 10/19/01
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck Mounted Power Probe 9600

Northing: 534235.5000
Easting: 135923.1000
Casing Elevation: 982.30

Borehole Depth: 16' bgs
Surface Elevation: 978.70

Descriptions By: Jeff Bishop

Well ID: GMA2-8

Client: General Electric Company

Location: Oxbow Areas J and K
Groundwater Management Area 2
Lot K10-10-33 Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
980 / 0						
	1	0-4	3.5	NA		Dark brown fine Sandy Loam/Silt with grass and natural organic debris.
975 / 5						Dark brown to brown fine SAND with trace Silt and fine subrounded Gravel. Moist.
	2	4-8	3.7	NA		Brown fine SAND and SILT, trace natural organic debris, saturated.
970 / 10	3	8-12	3.0	NA		Trace PEAT.
965 / 15	4	12-16	4.0	NA		PEAT.

Well Construction

- 4" Diameter Steel Stickup
- Concrete (0-1' bgs)
- Type #0 Silica Sand Drain (0-1.2' bgs)
- 3/8" Hydrated Bentonite Chips (1.2-3' bgs)
- Schedule 40 PVC Riser (3.6' ags - 4' bgs)
- Type #0 Silica Sand (3-14' bgs)
- Schedule 40 PVC 2" Diameter 0.010 Slot Screen (4-14' bgs)
- PVC Cap

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

Remarks: NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/17/02	8.98	973.32

Project:301.54.001 Template:J:/Rockware/Logplot2001/Logfiles/30154/GMA2-8.ldf
Data FileGMA2-8.dat Date:7/22/02

Date Start/Finish: 10/18/01
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck Mounted Power Probe 9600

Northing: 534006.0000
Easting: 135431.4000
Casing Elevation: 981.29

Borehole Depth: 14' bgs
Surface Elevation: 978.10

Descriptions By: Jeff Bishop

Well ID: GMA2-9

Client: General Electric Company

Location: Oxbow Areas J and K
Groundwater Management Area 2
Lot K10-10-03 - Pittsfield, MA

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
980 / 0						
	1	0-4	2.2	NA		Dark brown fine SAND and SILT, trace wood, roots.
						Light brown fine SAND and fine GRAVEL, trace roots.
975 / 5						Medium brown fine SAND and SILT, trace coarse Sand, moist.
	2	4-8	2.0	NA		Coarse SAND and SILT, moist.
						Medium brown coarse SAND, saturated.
970 / 10	3	8-12	NA	NA		
965 / 15	4	12-14	NA	NA		

Well Construction

- 4" Diameter Steel Stickup
- Concrete (0-1' bgs)
- Type #0 Silica Sand Drain (0-1.2' bgs)
- 3/8" Hydrated Bentonite Chips (1.2-3' bgs)
- Schedule 40 PVC Riser (3.2' ags - 4' bgs)
- Type #0 Silica Sand (3-14' bgs)
- Schedule 40 PVC 2" Diameter 0.010 Slot Screen (4-14' bgs)
- PVC Cap

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

Remarks:
NA = Not Available/Not Applicable.

Water Level Data

Date	Depth	Elev.
7/17/02	8.28	973.01

Date Start/Finish: 10/19/01
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck Mounted Power Probe 9600

Northing: 534035.6000
Easting: 135266.6000
Casing Elevation: 988.25

Borehole Depth: 20' bgs
Surface Elevation: 988.61

Descriptions By: Brett Kameinski

Well ID: MW-J1R

Client: General Electric Company

Location: Oxbow Areas J and K
Groundwater Management Area 2
1328 East St. - Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
990 / 0						
	1	0-4	3.7	NA		Dark brown fine Sandy SILT/LOAM, trace fine subangular Gravel.
						Brown fine to coarse SAND with fine to medium subangular Gravel.
985 / 5						Trace Slag.
	2	4-8	3.5	NA		Dark brown to black FILL with Slag, Ash, Coal, Brick.
980 / 10	3	8-12	3.8	NA		Light brown to brown fine SAND and SILT, little Clay, trace natural organic debris.
975 / 15	4	12-16	3.8	NA		Light brown fine to coarse rounded SAND, saturated at 15.7' bgs.

Well Construction

- 8" Diameter steel curb box with 1' skirt
- Concrete (0-1' bgs)
- Type #0 Silica Sand Drain (0.3-1.1' bgs)
- Schedule 40 PVC Riser (0.3' - 11.55' bgs)
- 3/8" Hydrated Bentonite Chips (1.1-9.55' bgs)
- Type #0 Silica Sand (9.55-21.55' bgs)
- Schedule 40 PVC 2" Diameter 0.010 Slot Screen (11.55-21.55' bgs)

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

Remarks:
NA = Not Available.

Water Level Data

Date	Depth	Elev.
7/17/02	15.44	972.81

Client:
General Electric Company

Site Location:
Oxbow Areas J and K
Groundwater Management Area 2
1328 East St. - Pittsfield, MA

Well ID: MW-J1R

Borehole Depth: 20' bgs

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
970	5	16-20	4.0	NA		Light brown fine to coarse rounded SAND, saturated.	Type #0 Silica Sand (9.55-21.55' bgs)
20						Medium to coarse rounded SAND with fine rounded Gravel, saturated.	Schedule 40 PVC 2" Diameter 0.010 Slot Screen (11.55-21.55' bgs)
							PVC Cap
965							
25							
960							
30							
955							
35							

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

Remarks:
NA = Not Available.

Water Level Data

Date	Depth	Elev.
7/17/02	15.44	972.81

Appendix B

Field Sampling Data

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

CHAIN OF CUSTODY RECORD

U18543

CT&E Environmental Services Inc.
Laboratory Division

Locations Nationwide
• Alaska • Louisiana
• Maryland • Michigan
• New Jersey • West Virginia
www.cteesi.com

(1)

CLIENT: BBL
CONTACT: Greig Robbins PHONE NO: (413) 822-1184
PROJECT: Bat. Park Semi-Annual Groundwater Sampling SITE: G.E. Pittsfield - GMA-2
REPORT TO: Mark Smith FAX NO: (315) 445-9161
INVOICE TO:
P.O. NUMBER: 301540.001

CT&E Reference:

PAGE 1 OF 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	NO. CONTAINERS	SAMPLE TYPE (C = COMP, G = GRAB)	Preservatives Used (1)	Analysis Required (3): Standard 8260B VOCs	Full Appendix IX+3 List	Expanded 8260B VOCs	Standard 8260B VOCs - MI/MD	Full Appendix IX+3 List - MI/MD	REMARKS
	GMA2-1	4/15/02	11:50	Water	14	G		2	12				Filtered PCBs and Filtered Metals are to be filtered by the lab
	GMA2-1R	4/15/02	15:25	Water	14	G		2	12				
	GMA2-2	4/15/02	10:00	Water	14	G		2	12				
	GMA2-3	4/15/02	14:00	Water	2	G				2			
	OSI-MW-2	4/15/02	15:20	Water	14	G		2	12				
	GMA2-6	4/15/02	11:50	Water	42	G		12	12		4	24	
	GMA2-7	4/15/02	16:05	Water	14	G		2	12				
	Dup-1	4/15/02	—	Water	14	G		2	12				
	Trip Blank	4/16/02	—	Water	2	G		2	12				

(5)

Collected/Relinquished By: (1)	Date: 4/16/02	Time: 13:20	Received By:
Relinquished By: (2)	Date: 4/16/02	Time:	Received By:
Relinquished By: (3)	Date:	Time:	Received By:
Relinquished By: (4)	Date:	Time:	Received For Laboratory By:

(4)

Shipping Carrier:
Shipping Ticket No:
Samples Received Cold? (Circle) YES NO
Temperature °C:
Special Deliverable Requirements:
Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
Requested Turnaround Time and Special Instructions:
Standard Turnaround Time

CHAIN OF CUSTODY RECORD

CT&E Environmental Services Inc.
Laboratory Division

Locations Nationwide
• Alaska • Louisiana
• Maryland • Michigan
• New Jersey • West Virginia
www.cteesi.com

018538

(1)

CLIENT: BBL

CONTACT: Gregg Rabassa PHONE NO: (413) 822-1184

PROJECT: Baseline Semi-Annual Groundwater Sampling SITE: GE Pittsfield-GMA-2

REPORTS TO: Nick Smith FAX NO: (315) 445-9161

INVOICE TO:

P.O. NUMBER: 301.54.001

CT&E Reference:

PAGE 1 OF 1

(2)

CT&E LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No. CONTAINERS	SAMPLE TYPE (C=COMP, G=GRAB)	Preservatives Used	Analysis Required (3)	REMARKS
	GMA 2-8	4/16/02	15:15	Water	14	G	HCl	Standard 8260B list, Full Appendix IX+3	
	GMA 2-9	4/17/02	12:15	Water	14	G	HCl		Filtered PCBs only
	GMA 2-5	4/17/02	8:50	Water	14	G	HCl		Filtered Metals only
	GMA 2-4	4/17/02	10:10	Water	14	G	HCl		to be filtered in the lab
	Trip Blank	4/17/02	—	Water	2	G	HCl		

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
Gregg Rabassa	4/17/02	16:50	
Relinquished By: (2)	Date	Time	Received By:
	4/17/02		
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:

(4)

Shipping Carrier:
Shipping Ticket No.:
Samples Received Cold? (Circle) YES NO
Temperature °C: 6

Special Deliverable Requirements:

Chain of Custody Seal (Circle)
INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:
Standard Turnaround Time

1258 Greenbrier Street Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761

White - Retained by Lab Pink - Retained by Sampler

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA 2-1
Key No. FX-37
PID Background (ppm) 0
Well Headspace (ppm) 0

Site Name GMA-2
Sampling Personnel GARI JDB
Date 4/15/02 Time In / Out 10:20 / 13:45
Weather Overcast, 55-60°

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Yes	
Height of Ref. Pt. Relative to Grade	+3.5'	
Well Diameter	2"	
Well Depth	26.97'	
Screen Interval Depth	16.3-26.8'	
Water Table Depth	15.12'	
Intake Depth of Pump/Tubing	21.8'	

Pump Start Time 11:00
Pump Stop Time 13:25
Sample Time 11:50
Sample ID GMA2-1
Sampled for:
( ) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
Standard 8260B-VOCs
Full Appendix IX+3 List

Redevelop? Y N

WELL WATER INFORMATION

Length of Water Column	11.85'
Volume of Water in Well	1.93 gallons
Minutes of Pumping	145

EVACUATION INFORMATION

Volume of water removed from well 8 gallons (5 gallons of sample)
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: QED Sample Pro Bladder Pump
Water Quality Meter Type(s) / Serial Numbers: Horiba-U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
11:05	250ml		15.38		11.6	6.54	0.743	159	5.94	76
11:10	200ml		15.44		8.3	6.85	0.783	99	2.73	42
11:15	200ml		15.43		8.1	7.05	0.765	56	1.88	-9
11:20	160ml		15.43		7.9	7.11	0.761	51	1.58	-23
11:25	160ml		15.43		7.6	7.17	0.755	46	1.27	-33
11:30	160ml		15.43		7.6	7.24	0.755	36	1.08	-44
11:35	160ml		15.43		7.8	7.27	0.761	35	0.97	-52
11:40	160ml		15.43		7.8	7.33	0.759	35	0.95	-54
11:45	160ml		15.43		7.7	7.31	0.755	33	0.94	-58
Final	—		15.50		7.6	7.32	0.755	32	0.92	-59

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Purge: Very light brown, no odor, no sheen
Final Purge: Clear, odorless, no sheen
Hach Turbidity Readings 11:30: 6ntu 11:40: 4ntu
** Weston/EPA collected a split sample for Full Appendix IX+3 Analysis **

SAMPLE DESTINATION

Laboratory: CTEF
Delivered Via: Courier
Airbill #: NA

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA2-Z
Key No. FX-37
PID Background (ppm) 0.0
Well Headspace (ppm) 0.6

Site Name GMA2
Sampling Personnel JSB/BAH
Date 4/13/02 Time In / Out 0900 / 1205
Weather 59°F / cloudy, rain

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	YES	
Height of Ref. Pt. Relative to Grade	2.98'	
Well Diameter	2"	
Well Depth	23.00'	
Screen Interval Depth		13.-23.'
Water Table Depth	16.51'	
Intake Depth of Pump/Tubing	20.75'	

Redevelop? Y (N)

Pump Start Time 0920
Pump Stop Time 1155
Sample Time 1000
Sample ID GMA2-Z
Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify) APPENDIX IX + 3 1257
* DUP-4 TAKEN HERE

WELL WATER INFORMATION

Length of Water Column	8.49'
Volume of Water in Well	1.38 GALLONS
Minutes of Pumping	155 MINUTES

EVACUATION INFORMATION

Volume of water removed from well 7.0 GALLONS
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: ISCO 150 PORTABLE PUMP
Water Quality Meter Type(s) / Serial Numbers: HORIBA U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
0920	150 ml.	.20	16.53'		13.96	6.74	0.742	62	7.06	112
0925	150 ml.	.40	16.53'		13.32	6.86	0.746	44	6.09	96
0930	150 ml.	.60	16.53'		13.28	6.90	0.747	10	5.92	86
0935	150 ml.	.80	16.53'		13.19	6.90	0.746	9	5.86	71
0940	150 ml.	1.0	16.53'		13.43	6.92	0.744	7	5.73	70
0945	150 ml.	1.2	16.53'		13.12	6.94	0.748	7	5.72	68
0950	150 ml.	1.4	16.53'		13.12	6.99	0.747	6	5.70	68
Final	150 ml.	7.0 GAL.	16.58'		13.02	7.05	0.742	4	5.78	60

MISCELLANEOUS OBSERVATIONS/PROBLEMS *VOC's COLLECTED UTILIZING A DISPOSABLE TEFLON BAILER.

INITIAL PURGE: CLEAR, SLIGHTLY MURKY, NO SHEEN, NO ODOR.
FINAL PURGE: CLEAR, SLIGHTLY MURKY, NO SHEEN, NO ODOR.

SAMPLE DESTINATION

Laboratory: CT&E, CHARLESTON, WV
Delivered Via: CT&E COURIER
Airbill #:

Field Sampling Coordinator: JSB

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA2-3
Key No. N/A
PID Background (ppm) 0.0
Well Headspace (ppm) 0.3

Site Name GMA2
Sampling Personnel JJB / BRH
Date 4/15/02 Time In / Out 1300 / 1410
Weather SUNNY, 73°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	YES	
Height of Ref. Pt. Relative to Grade		.12
Well Diameter	2"	
Well Depth	18.40'	
Screen Interval Depth		8.5 - 18.5'
Water Table Depth	14.78'	
Intake Depth of Pump/Tubing	16.5'	

Redevelop? Y (N)

Pump Start Time 1315
Pump Stop Time 1350
Sample Time 1400
Sample ID GMA2-3
Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)
*EXPANDED VOC LIST

WELL WATER INFORMATION

Length of Water Column	3.67'
Volume of Water in Well	.60 GALLONS
Minutes of Pumping	35 MINUTES

EVACUATION INFORMATION

Volume of water removed from well 1.5 GALLONS
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: ESCO 150 PORTABLE PUMP
Water Quality Meter Type(s) / Serial Numbers: HORIBA U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1315	125 ml.	.17 GAL	15.02'		19.12	7.09	3.38	89	10.66	65
1320	125 ml.	.34 GAL	15.11'		18.18	6.90	3.53	162	3.21	53
1325	125 ml.	.51	15.18'		16.95	6.87	3.51	141	3.58	50
1330	125 ml.	.68	15.21'		16.08	6.85	3.51	94	3.45	39
1335	125 ml.	.85	15.22'		16.00	6.85	3.52	69	3.32	26
1340	125 ml.	1.02	15.23'		16.02	6.86	3.58	55	3.33	24
1345	125 ml.	1.19	15.24'		16.02	6.88	3.58	46	3.35	23
Final	125 ml.	1.5 GAL.	14.88'		16.15	6.87	3.78	52	3.49	29

MISCELLANEOUS OBSERVATIONS/PROBLEMS *VOC'S COLLECTED UTILIZING A DISPOSABLE TEFLON BAILER

INITIAL PURGE: CLOUDY, MODERATELY TURBID, NO SHEEN, NO ODOR
FINAL PURGE: CLEAR, SLIGHTLY TURBID, NO SHEEN, NO ODOR

SAMPLE DESTINATION

Laboratory: CT&E CHARLESTON, WV
Delivered Via: CT&E COURIER
Airbill #:

Field Sampling Coordinator: JJB

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA2-4
Key No. FX-37
PID Background (ppm) 0.0
Well Headspace (ppm) 0.0

Site Name GMA2
Sampling Personnel DEG/JTG
Date 4/17/02 Time In / Out 09:00
Weather Sunny 70's

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	—
Height of Ref. Pt. Relative to Grade	—	—
Well Diameter	2"	—
Well Depth	17.77	—
Screen Interval Depth	—	5.2-15.2
Water Table Depth	8.29	—
Intake Depth of Pump/Tubing	—	~~~ (DEG) ~11

Pump Start Time 0905
Pump Stop Time 12:00
Sample Time 1010
Sample ID GMA2-4
Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
(X) SVOCs / 4 deg. ASP 95-2
(X) PCBs (Total) / 4 deg. ASP 95-3
(X) PCBs (Dissolved) / 4 deg. ASP 95-3
(X) Metals (Total) / HNO3, 4 deg. ASP methods
(X) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

Redevelop? Y N

WELL WATER INFORMATION

Length of Water Column	9.48'
Volume of Water in Well	1.54 gallons
Minutes of Pumping	175 min.

EVACUATION INFORMATION

Volume of water removed from well ~5 gallons
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: GEOTECH GEOPUMP 2
Water Quality Meter Type(s) / Serial Numbers: U-22 Horiba w/ Flow through cell + 2100P Hach Turbidity meter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
0910	320 ml	what	8.42	—	8.38	6.59	.477	46/18	0.0	-42
0915	300 ml		8.44	—	8.52	6.62	.471	11/6	0.0	-50
0920	220 ml		8.43	—	8.74	6.69	.469	3/5	0.0	-69
0930	220 ml		8.43	—	8.77	6.64	.469	-4/3	0.0	-92
0940	220 ml		8.43	—	8.90	6.79	.468	-8/4	0.0	-107
0950	220 ml		8.43	—	8.82	6.87	.464	-10/2	0.0	-120
1000	220 ml		8.43	—	8.84	6.91	.467	-10/2	0.0	-128
Final		~5 gallons								

MISCELLANEOUS OBSERVATIONS/PROBLEMS initial purge: water is clear in color w/ organic odor. EPA (WESTON) Did Splits on this well. Turbidity taken from the U-22 Horiba appears to be ~~~, malfunctioning

SAMPLE DESTINATION

Laboratory: CT&E
Delivered Via: Courier
Airbill #: N/A

Field Sampling Coordinator: GAR

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA 2-5
Key No. FX-37
PID Background (ppm) 0.0
Well Headspace (ppm) 0.0

Site Name GMA 2
Sampling Personnel JJB / BRH
Date 4/17/02 Time In / Out 0800 / 1000
Weather 62°F, SUNNY

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	TOC	
Height of Ref. Pt. Relative to Grade		.30
Well Diameter	2"	
Well Depth	16.08'	
Screen Interval Depth		6.-16.'
Water Table Depth	9.32'	
Intake Depth of Pump/Tubing	13.0'	

Redevelop? Y (N)

Pump Start Time 0810
Pump Stop Time 0950
Sample Time 0830
Sample ID GMA2-5
Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify) APPENDIX IB + 3 LEAD

WELL WATER INFORMATION

Length of Water Column	6.76'
Volume of Water in Well	1.10 GALLONS
Minutes of Pumping	100 MINUTES

EVACUATION INFORMATION

Volume of water removed from well 9.5 GALLONS
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: ISCO 150 PORTABLE PUMP
Water Quality Meter Type(s) / Serial Numbers: HORIBA U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
0810	175 ml.	.23	9.34		12.50	7.87	0.995	10	9.59	42
0815	175 ml.	.46	9.34		11.89	7.99	.587	8	7.83	43
0820	175 ml.	.69	9.34		11.59	7.96	.591	8	7.22	43
0825	175 ml.	.92	9.34		11.34	7.93	.590	6	6.90	44
0830	175 ml.	1.15	9.34		11.28	7.91	.588	5	7.02	44
0835	175 ml.	1.38	9.34		11.20	7.90	.585	4	7.01	44
0840	175 ml.	1.61	9.34		11.21	7.89	.585	2	7.02	43
Final	175 ml.	4.5 GAL.	9.32'		11.32	7.32	.592	2	7.10	48

MISCELLANEOUS OBSERVATIONS/PROBLEMS "DUP" COLLECTED AT 0835 AFTER 1.61 GALLONS REMOVED.

INITIAL PURGE: CLEAR, SLIGHTLY TURBID, NO SHEEN, NO ODOR
FINAL PURGE: CLEAR, SLIGHTLY TURBID, NO SHEEN, NO ODOR

SAMPLE DESTINATION

Laboratory: CT&E, CHARLESTON, WV
Delivered Via: CT&E COURIER
Airbill #:

Field Sampling Coordinator: JJB

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA2-6
Key No. FX-37
PID Background (ppm) 0.0
Well Headspace (ppm) 0.0

Site Name GMA2-6
Sampling Personnel DEG/JTE
Date 4/15/02 Time In / Out 10:30 / 1400
Weather Sunny 65°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	—
Height of Ref. Pt. Relative to Grade	—	-
Well Diameter	2"	—
Well Depth	23.28	—
Screen Interval Depth	—	10.15-20.15
Water Table Depth	11.63	
Intake Depth of Pump/Tubing		~18

Pump Start Time 10:41
Pump Stop Time 13:40
Sample Time 11:50
Sample ID GMA2-6 ms/msd
Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
(X) SVOCs / 4 deg. ASP 95-2
(X) PCBs (Total) / 4 deg. ASP 95-3
(X) PCBs (Dissolved) / 4 deg. ASP 95-3
(X) Metals (Total) / HNO3, 4 deg. ASP methods
(X) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

Redevelop? Y N

WELL WATER INFORMATION

Length of Water Column	8.65'
Volume of Water in Well	1.41
Minutes of Pumping	119 min

EVACUATION INFORMATION

Volume of water removed from well ~4 gallons
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: GEOTECH GEOpump2
Water Quality Meter Type(s) / Serial Numbers: U-22 Horiba / 2100P Hach Turbidity meter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
10:45	240 ml	1 gal	14.64	—	9.26	6.21	2.81	293	2.76	100
10:50	240 ml		14.64	—	7.27	6.30	2.27	180/68	0.77	43
11:00	240 ml		14.63	—	7.14	6.40	1.96	56/23	0.33	16
11:10	240 ml		14.63	—	7.51	6.53	1.98	38/12	0.00	-9
11:20	240 ml		14.63	—	7.48	6.63	2.01	24/7	0.00	-22
11:30	240 ml		14.63	—	7.63	6.66	2.02	15/5	0.00	-31
11:40	240 ml		14.63		7.45	6.67	2.03	19/4	0.00	-34
11:50	240 ml		14.63	—	7.95	6.70	2.02	17/3	0.00	-38
Final	240ml	~4 gallons	14.63	—						

MISCELLANEOUS OBSERVATIONS/PROBLEMS initial purge water has a slight odor w/ light brown in color

SAMPLE DESTINATION

Laboratory: CT+E
Delivered Via: Courier
Airbill #: N/A

Field Sampling Coordinator: GAR

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA2-7
Key No. FX-37
PID Background (ppm) 0.0
Well Headspace (ppm) 0.0

Site Name GMA2
Sampling Personnel DEG/JTG
Date 4/15/02 Time In / Out 1510 /
Weather Sunny MID 70's

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	—
Height of Ref. Pt. Relative to Grade	—	—
Well Diameter	2"	—
Well Depth	18.28	—
Screen Interval Depth	—	8.49 - 18.49
Water Table Depth	14.20	
Intake Depth of Pump/Tubing	—	~16.0'

Pump Start Time 15:17
Pump Stop Time 17:00
Sample Time 16:05
Sample ID GMA2-7
Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
(X) SVOCs / 4 deg. ASP 95-2
(X) PCBs (Total) / 4 deg. ASP 95-3
(X) PCBs (Dissolved) / 4 deg. ASP 95-3
(X) Metals (Total) / HNO3, 4 deg. ASP methods
(X) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

Redevelop? Y N

WELL WATER INFORMATION

Length of Water Column	4.08'
Volume of Water in Well	0.69 gallons
Minutes of Pumping	103 min.

EVACUATION INFORMATION

Volume of water removed from well ~2
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: Isco peristaltic pump
Water Quality Meter Type(s) / Serial Numbers: U-22 Horiba w/ Flow through cell / 2100P Hach Turbidity Meter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
15:25	200ml	INITIAL	14.23	—	12.67	6.84	2.49	120/32	5.09	94
15:30	120 ml		14.23	—	13.71	6.83	2.46	58/35	4.71	94
15:35	320 ml		14.23	—	11.47	6.83	2.47	76/28	3.86	95
15:45	260 ml		14.23	—	11.61	6.83	2.42	27/6	4.15	95
15:55	260 ml		14.23	—	12.00	6.83	2.40	40/3	4.10	95
16:05	260 ml		14.23	—	12.23	6.83	2.39	80/2	4.30	93
		↓								
Final		~2								

MISCELLANEOUS OBSERVATIONS/PROBLEMS INITIAL Purge: Water was clear w/ no odor.

SAMPLE DESTINATION

Laboratory: CT+E
Delivered Via: Courier
Airbill #: N/A
Field Sampling Coordinator: GAR

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA2-8
Key No. FX-37
PID Background (ppm) 0.0
Well Headspace (ppm) 0.0

Site Name GMA2
Sampling Personnel DEG/JTG
Date 4/16/02 Time In / Out 14:25
Weather Sunny 80's

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	—
Height of Ref. Pt. Relative to Grade	—	—
Well Diameter	2"	—
Well Depth	17.19	—
Screen Interval Depth	—	4-14
Water Table Depth	7.30	
Intake Depth of Pump/Tubing	—	~12

Pump Start Time 14:35
Pump Stop Time ~~15:1~~ (DEG) 16:30
Sample Time 15:15
Sample ID GMA2-8
Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
(X) SVOCs / 4 deg. ASP 95-2
(X) PCBs (Total) / 4 deg. ASP 95-3
(X) PCBs (Dissolved) / 4 deg. ASP 95-3
(X) Metals (Total) / HNO3, 4 deg. ASP methods
(X) Metals (Dissolved) / 4 deg. ASP methods
( ) Other (Specify)

Redevelop? Y N

WELL WATER INFORMATION

Length of Water Column	9.89'
Volume of Water in Well	1.61 gallons
Minutes of Pumping	115 min.

EVACUATION INFORMATION

Volume of water removed from well ~~~~ ~2 gallons
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: Isco peristaltic pump
Water Quality Meter Type(s) / Serial Numbers: U-22 Horiba w/ Flow Through Cell & 2100P Hach Turbidity Meter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
14:40	120 ml	initial	7.35	—	19.76	7.27	.445	46/10	7.31	-94
14:45	120 ml		7.35	—	18.89	7.20	.417	8/4	5.39	-99
14:50	180 ml		7.35	—	16.81	7.13	.404	41/3	2.80	-116
14:55	180 ml		7.35	—	17.48	7.11	.401	18/4	1.69	-125
15:05	180 ml		7.35	—	17.17	7.08	.397	22/2	1.68	-121
15:15	180 ml		7.35	—	17.20	7.11	.397	7/2	0.08	-124
Final		~2 gallons								

MISCELLANEOUS OBSERVATIONS/PROBLEMS initial purge: clear w/ no odor.

SAMPLE DESTINATION

Laboratory: CT+E
Delivered Via: Courier
Airbill #: N/A
Field Sampling Coordinator: GAR

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA Z-9
Key No. FX-37
PID Background (ppm) 0
Well Headspace (ppm) 0

Site Name GMA-Z
Sampling Personnel GAR / JDB
Date 4/13/02 Time In / Out 11:00 / 13:20
Weather Sunny, 80-85°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Yes	
Height of Ref. Pt. Relative to Grade	+3'	
Well Diameter	2"	
Well Depth	17.03'	
Screen Interval Depth	7'-17'	
Water Table Depth	7.09'	
Intake Depth of Pump/Tubing	12.1'	

Redevelop? Y N

Pump Start Time 11:35
Pump Stop Time 13:05
Sample Time 12:15
Sample ID GMA Z-9
Sampled for:
( ) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
Standard 8260B - VOCs
Full Appendix IX +3 - List

WELL WATER INFORMATION

Length of Water Column	9.94'
Volume of Water in Well	1.62 gallon
Minutes of Pumping	90

EVACUATION INFORMATION

Volume of water removed from well 4.5 gallons
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: QED Sample Pro Bladder Pump
Water Quality Meter Type(s) / Serial Numbers: Horiba - U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
11:37	400 ml		7.45		12.0	6.45	0.270	116	14.00	84
11:40	200 ml		7.26		11.6	6.45	0.248	77	6.83	81
11:45	190 ml		7.31		11.3	6.57	0.249	33	5.38	78
11:50	190 ml		7.31		10.8	6.59	0.244	15	4.76	75
11:55	190 ml		7.32		10.5	6.64	0.242	4	4.52	75
12:00	190 ml		7.32		10.2	6.58	0.247	0	4.10	73
12:05	190 ml		7.33		10.3	6.56	0.250	0	3.68	71
12:10	190 ml		7.33		10.3	6.57	0.253	0	3.73	70
Final	—		7.35		10.1	6.54	0.256	1	3.45	69

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Purge: Clear, odorless, no sheen
Final Purge: Clear, odorless, no sheen
Hach Turbidity Readings: 12:00: 9 ntu 12:10: 5 ntu

SAMPLE DESTINATION

Laboratory: CT&E
Delivered Via: Courier
Airbill #: NA

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING FIELD LOG

Well No. J-1R
Key No. FK-37
PID Background (ppm) 0
Well Headspace (ppm) 0

Site Name GMA-2
Sampling Personnel GAR/JDB
Date 4/15/02 Time In / Out 14:00 / 17:15
Weather Mostly sunny, 65-70°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Yes	
Height of Ref. Pt. Relative to Grade	- 6"	
Well Diameter	2"	
Well Depth	21.00	
Screen Interval Depth	12.85'-22.85'	
Water Table Depth	13.81	
Intake Depth of Pump/Tubing	17.4'	

Pump Start Time 14:35
Pump Stop Time 17:00
Sample Time 15:25
Sample ID J-1R
Sampled for:
( ) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
Standard 8260B VOCs
Full Appendix IX+3 List

Redevelop? Y N

WELL WATER INFORMATION

Length of Water Column	7.19'
Volume of Water in Well	1.17 gallon
Minutes of Pumping	145'

EVACUATION INFORMATION

Volume of water removed from well 8 gallons (5 gallons of sample)
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: QED Sampler Pro Bladder Pump
Water Quality Meter Type(s) / Serial Numbers: Horiba -U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
14:40	220ml		13.79		15.7	6.69	1.77	470	3.95	99
14:45	180ml		13.79		13.3	6.63	1.66	290	0.47	85
14:50	180ml		13.79		12.6	6.67	1.59	165	0.11	77
14:55	180ml		13.79		12.3	6.68	1.58	130	0.04	75
15:00	180ml		13.79		12.4	6.69	1.56	98	0.00	70
15:05	180ml		13.79		12.4	6.71	1.55	70	0.00	66
15:10	180ml		13.79		12.4	6.72	1.54	55	0.00	62
15:15	180ml		13.79		12.3	6.71	1.54	51	0.00	62
15:20	180ml		13.79		12.2	6.71	1.53	50	0.00	62
Final	—		13.70		11.7	6.71	1.51	50	0.00	63

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Purge: Light-brown, odorless, no sheen
Final Purge: Clear, odorless, no sheen
Hach Turbidity Readings: 15:05: 21 ntu 15:15: 10 ntu 15:25: 8 ntu
** Weston/EPA collected a split sample for Full Appendix IX+3 Analysis **

SAMPLE DESTINATION

Laboratory: CT&E
Delivered Via: Courier
Airbill #: NA

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING FIELD LOG

Well No. OJ - MW - 2
Key No. MA
PID Background (ppm) 0.0
Well Headspace (ppm) 0.0

Site Name GMA 2
Sampling Personnel SJG / BRH
Date 4/13/02 Time In / Out 1430 / 1620
Weather 74°F, sunny

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	YES	
Height of Ref. Pt. Relative to Grade		.38'
Well Diameter	1"	
Well Depth	18.56'	
Screen Interval Depth		—
Water Table Depth	14.32'	
Intake Depth of Pump/Tubing	16.5'	

Redevelop? Y (N)

Pump Start Time 1440
Pump Stop Time 1610
Sample Time 1520
Sample ID OJ - MW - 2
Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify) APPENDIX IX +3 LIST

WELL WATER INFORMATION

Length of Water Column	3.84'
Volume of Water in Well	
Minutes of Pumping	90 MINUTES

EVACUATION INFORMATION

Volume of water removed from well 4.5 GALLONS
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: ISCO 150 PORTABLE PUMP
Water Quality Meter Type(s) / Serial Numbers: HORIBA U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1440	175 ml.	.23	*		20.39	7.15	0.96	114	12.13	60
1445	175 ml.	.46	*		18.99	6.91	0.92	90	7.69	-68
1450	175 ml.	.69	*		17.24	6.87	0.97	26	6.36	-90
1455	175 ml.	.92	*		17.14	6.87	0.99	13	5.95	-93
1500	175 ml.	1.15	*		17.10	6.86	0.99	13	5.84	-94
1505	175 ml.	1.38	*		16.86	6.86	0.98	9	5.37	-94
1510	175 ml.	1.61	*		16.79	6.86	1.02		5.36	-96
Final	175 ml.	4.5 GAL.	14.02'		16.76	6.85	1.02	2	5.15	-102

* WATER LEVEL NOT TAKEN DUE TO PLACEMENT OF WELL.

MISCELLANEOUS OBSERVATIONS/PROBLEMS "VOC" COLLECTED DIRECTLY FROM DISPOSABLE TEFLON BAILER.

INITIAL PURGE: CLOUDY, MODERATELY TURBID, NO SHEEN, AND ODOR
FINAL PURGE: CLEAR, SLIGHTLY TURBID, NO SHEEN, AND ODOR.

SAMPLE DESTINATION

Laboratory: CT&E, CHARLESTON, WV
Delivered Via: CT&E COURIER
Airbill #:

Field Sampling Coordinator:

Appendix C

Hydraulic Conductivity Data

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

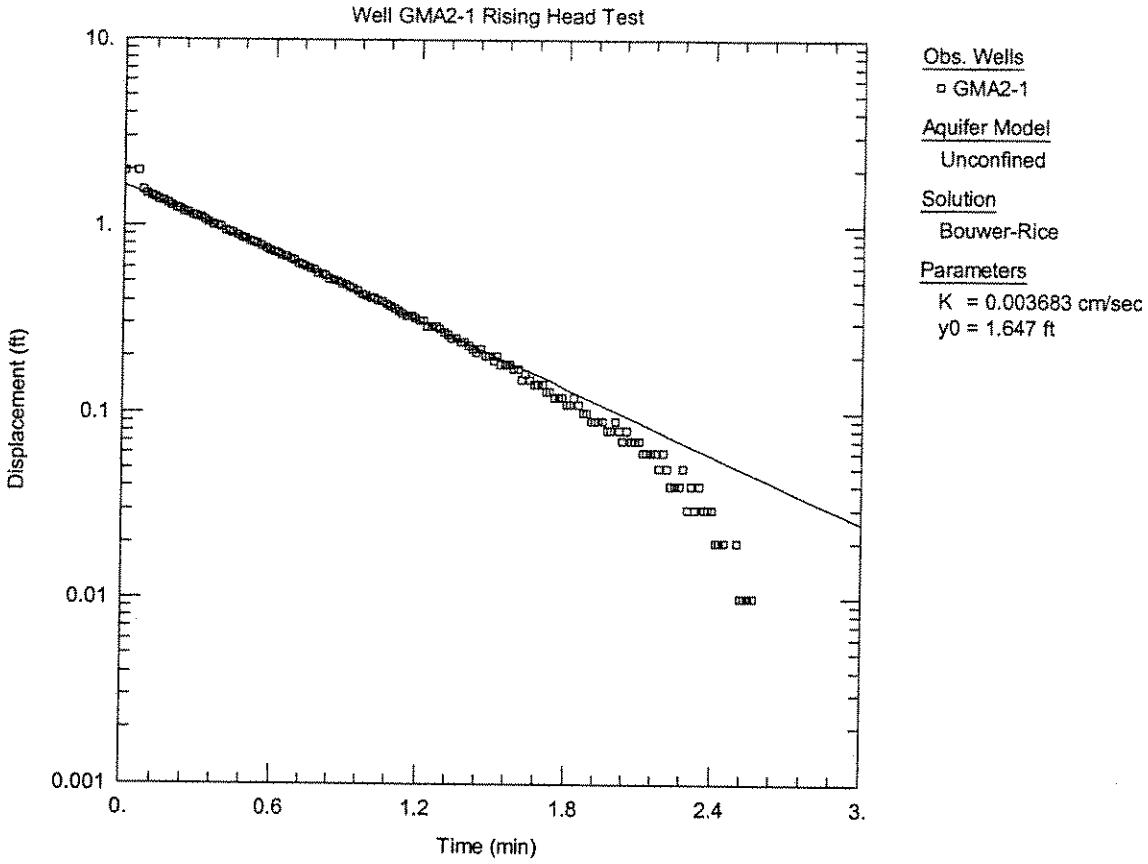


Figure C-1. Curve matching and calculation for hydraulic conductivity for monitoring well GMA2-1.

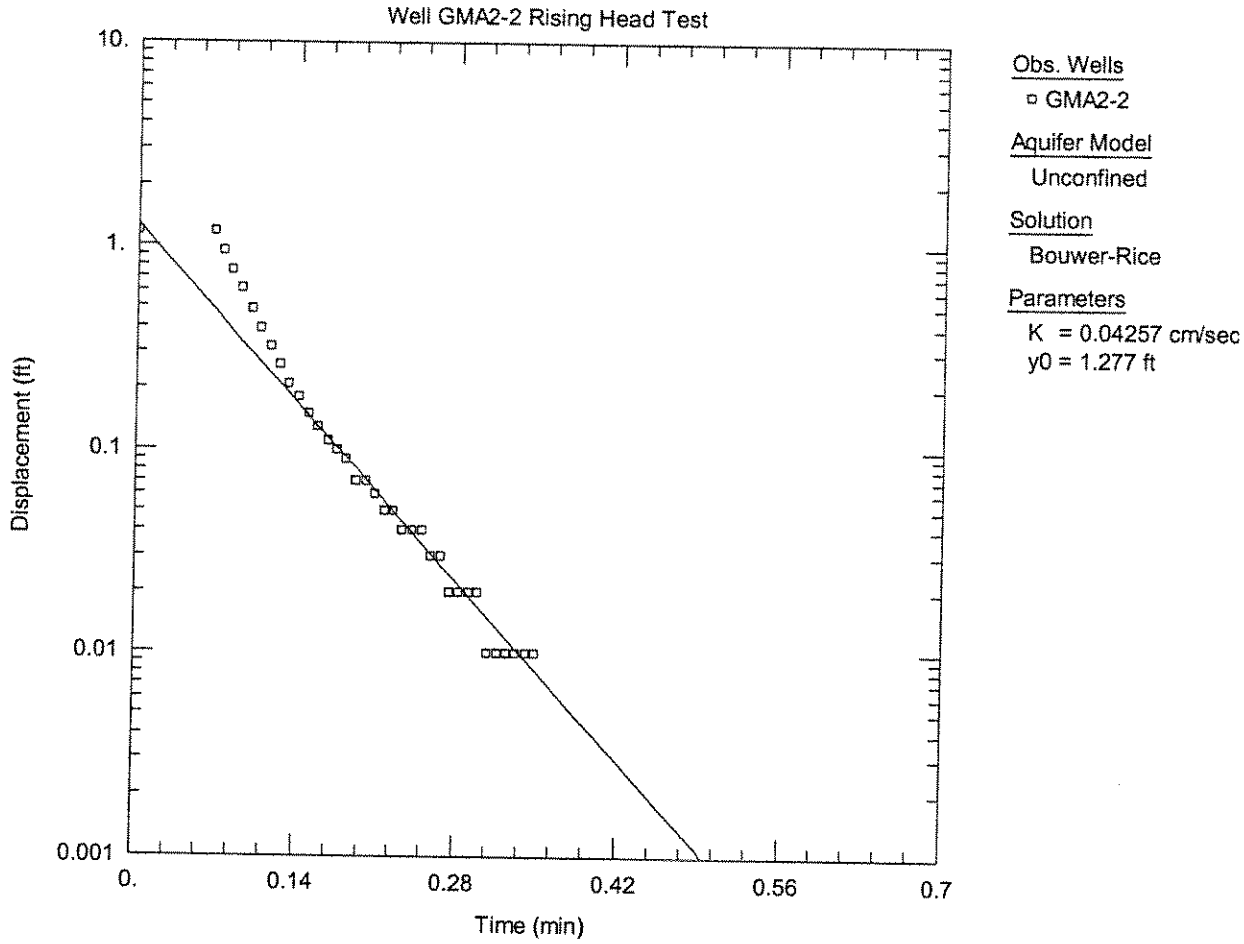


Figure C-2. Curve matching and calculation for hydraulic conductivity for monitoring well GMA2-2.

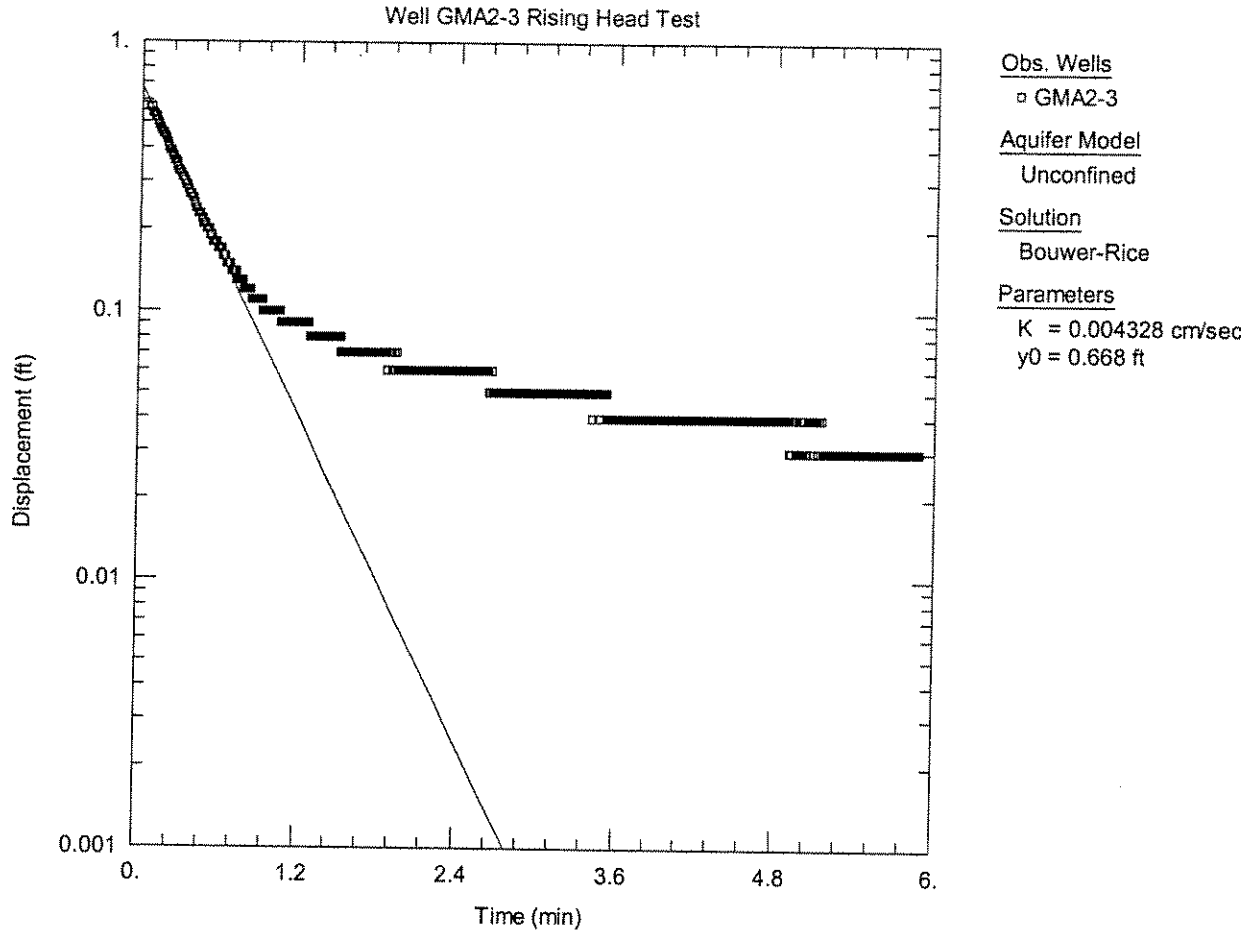


Figure C-3. Curve matching and calculation for hydraulic conductivity for monitoring well GMA2-3.

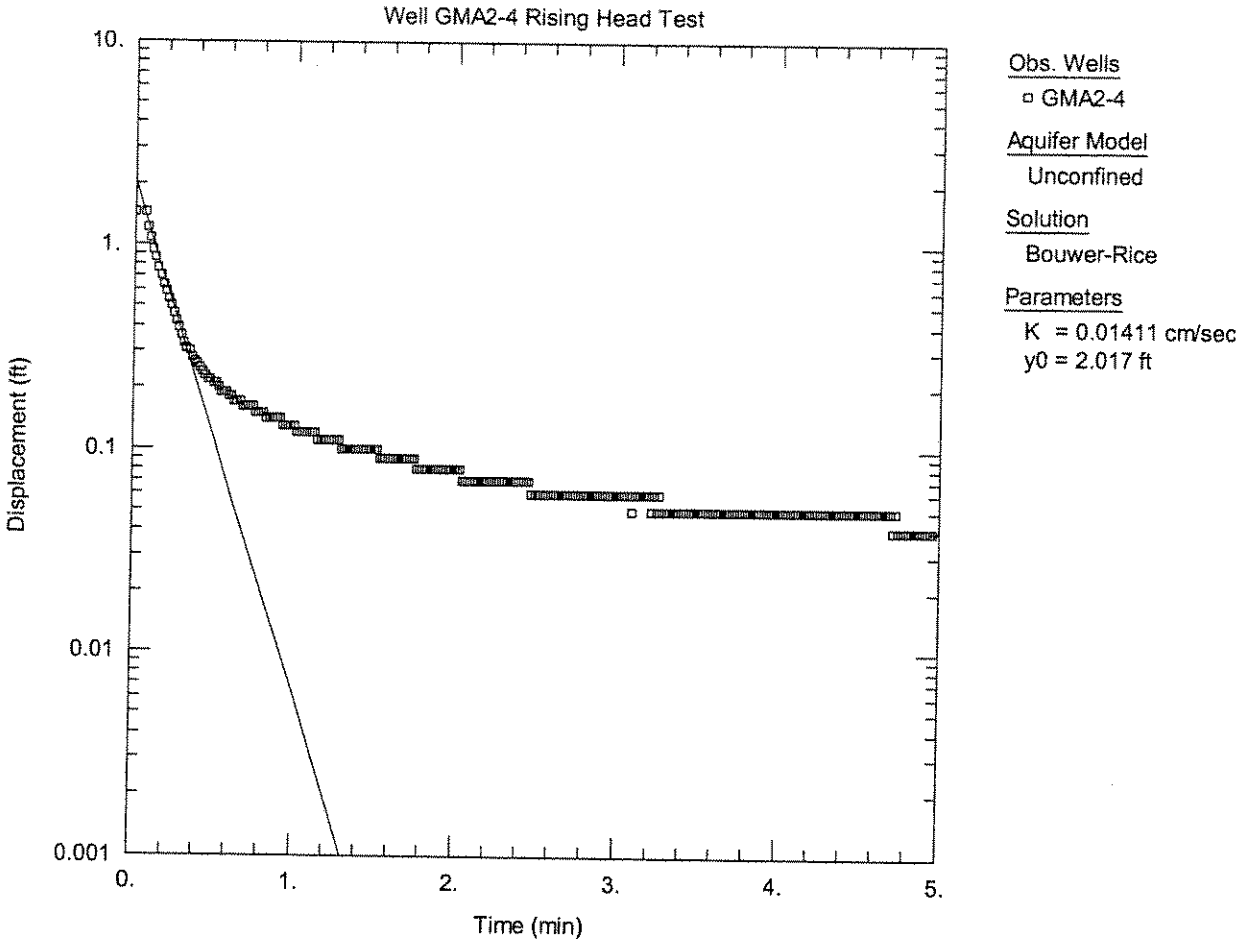


Figure C-4. Curve matching and calculation for hydraulic conductivity for monitoring well GMA2-4.

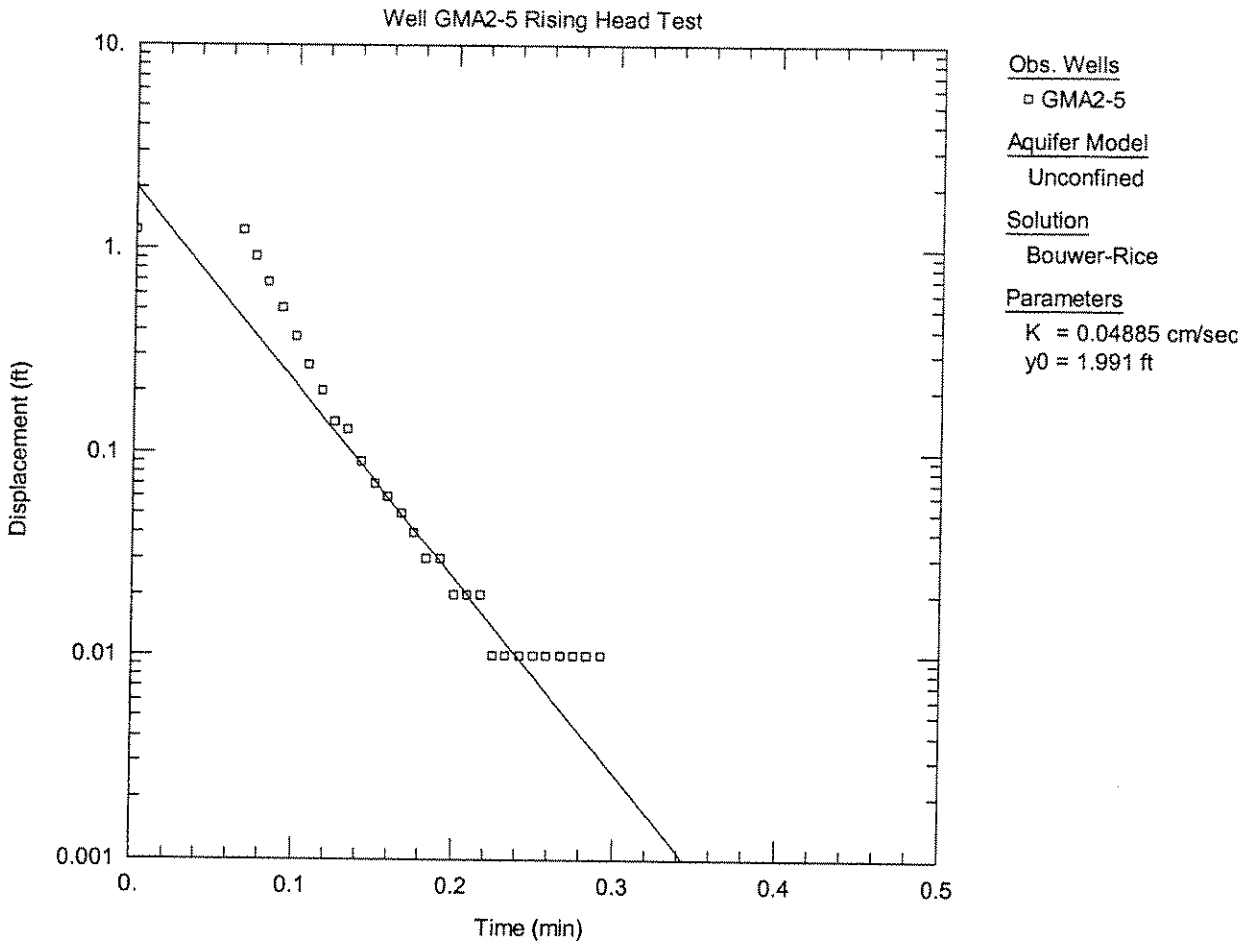


Figure C-5. Curve matching and calculation for hydraulic conductivity for monitoring well GMA2-5.

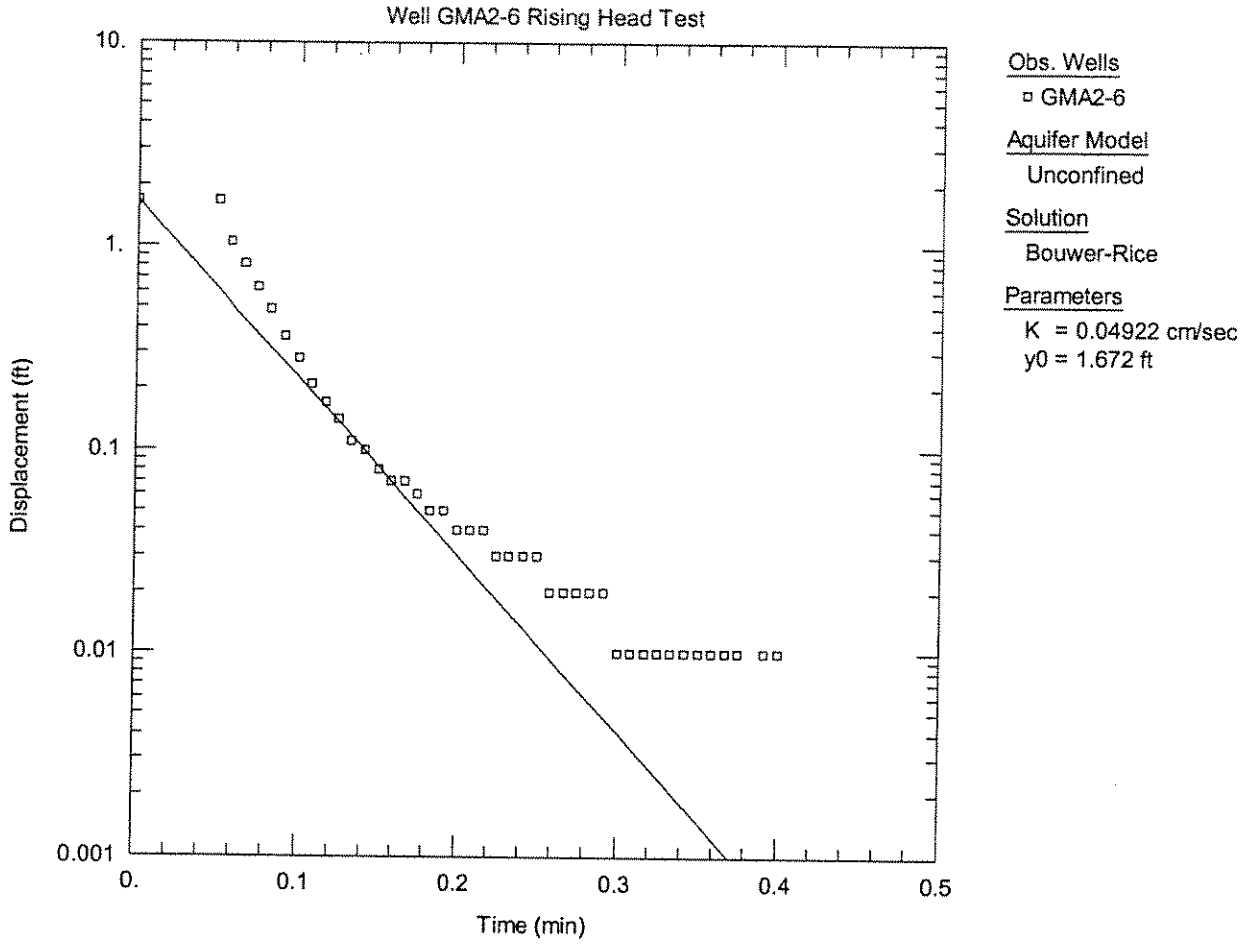


Figure C-6. Curve matching and calculation for hydraulic conductivity for monitoring well GMA2-6.

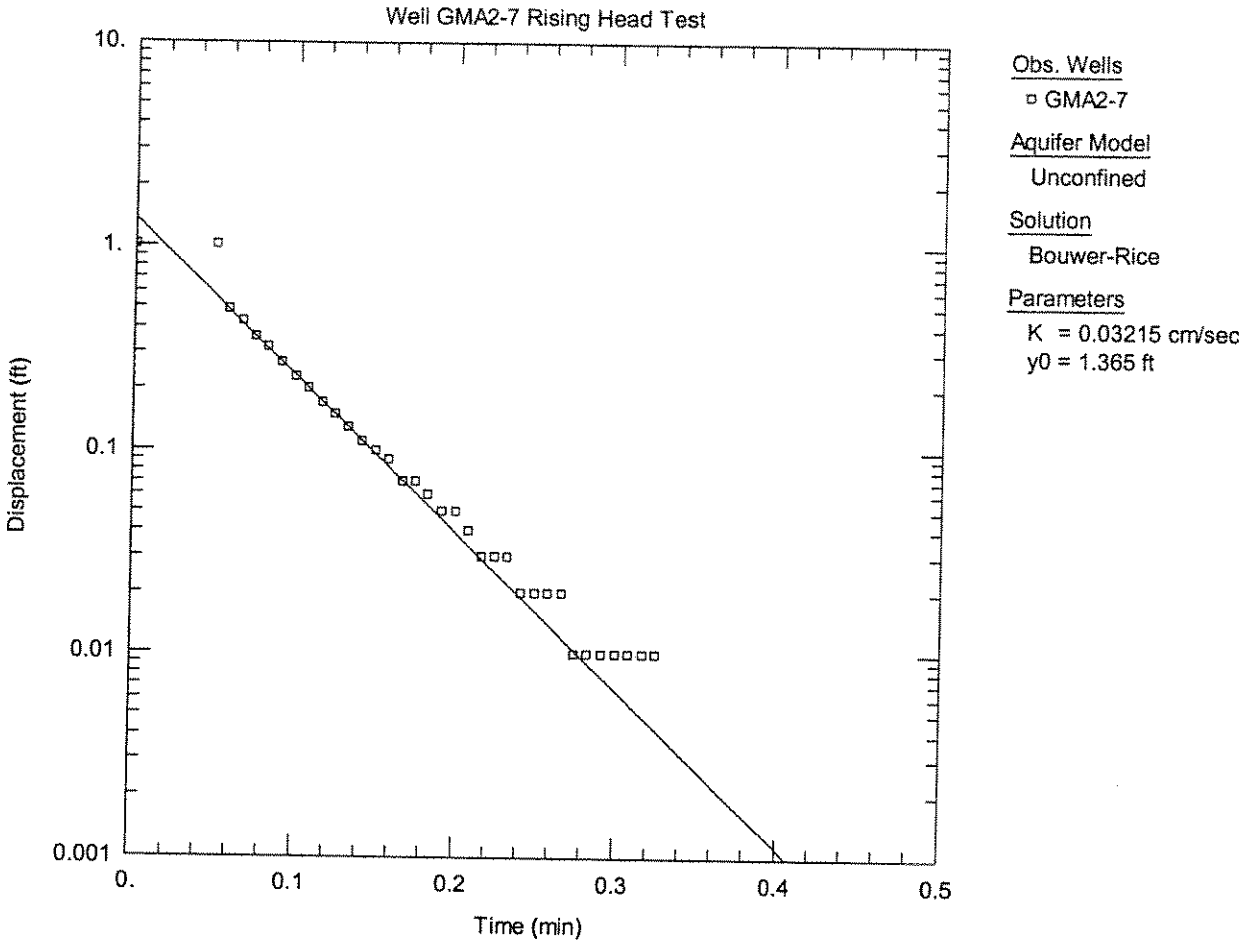


Figure C-7. Curve matching and calculation for hydraulic conductivity for monitoring well GMA2-7.

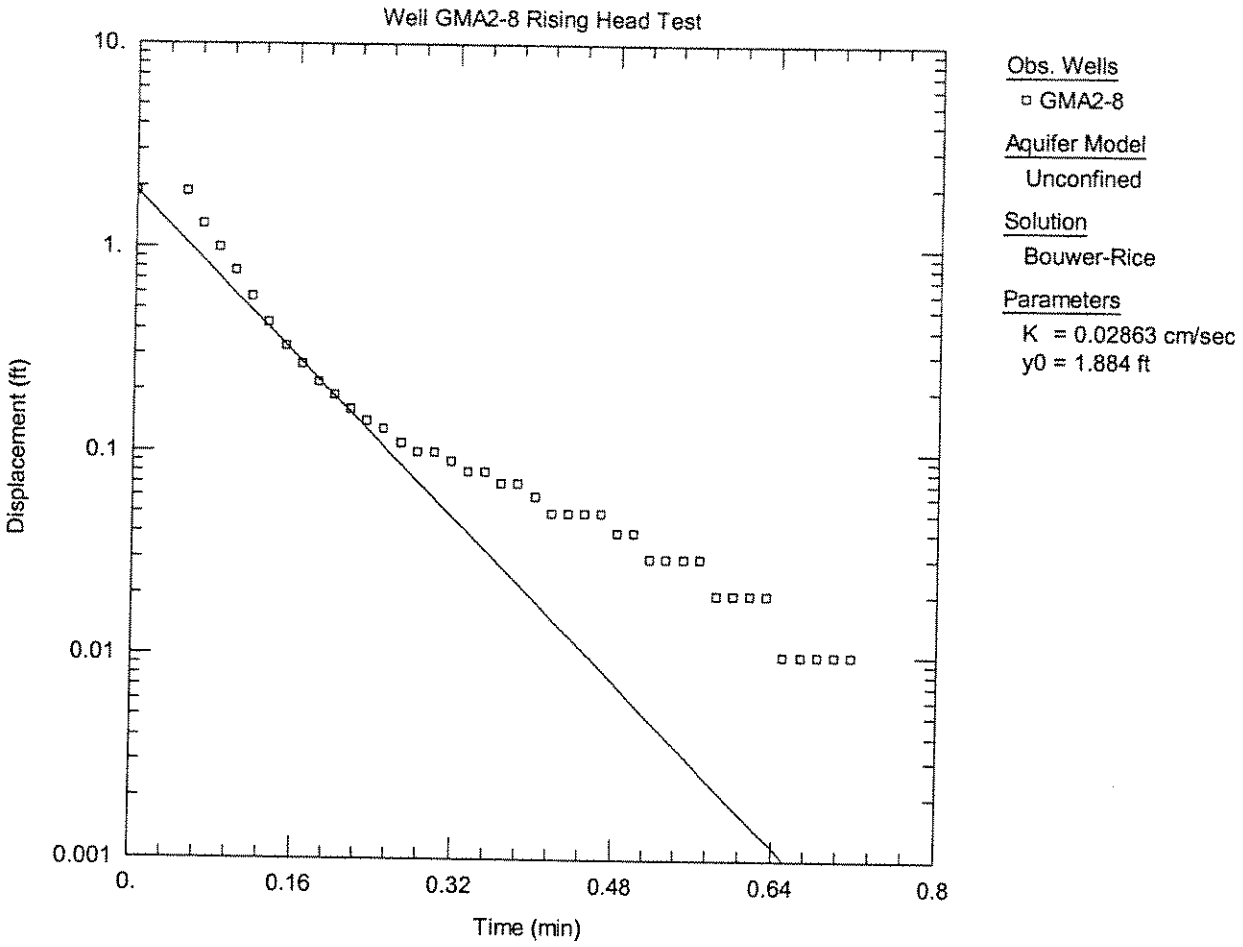


Figure C-8. Curve matching and calculation for hydraulic conductivity for monitoring well GMA2-8.

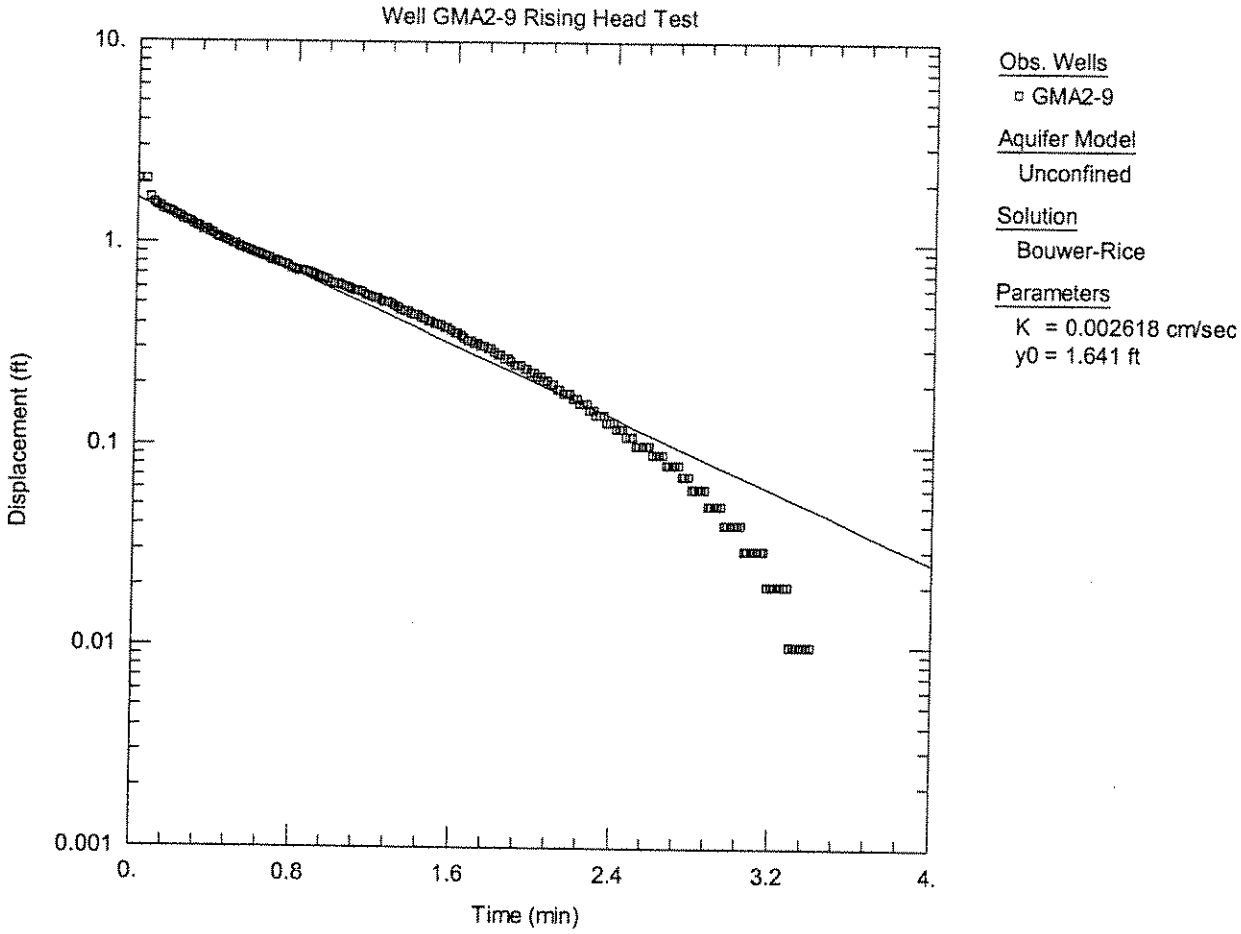


Figure C-9. Curve matching and calculation for hydraulic conductivity for monitoring well GMA2-9.

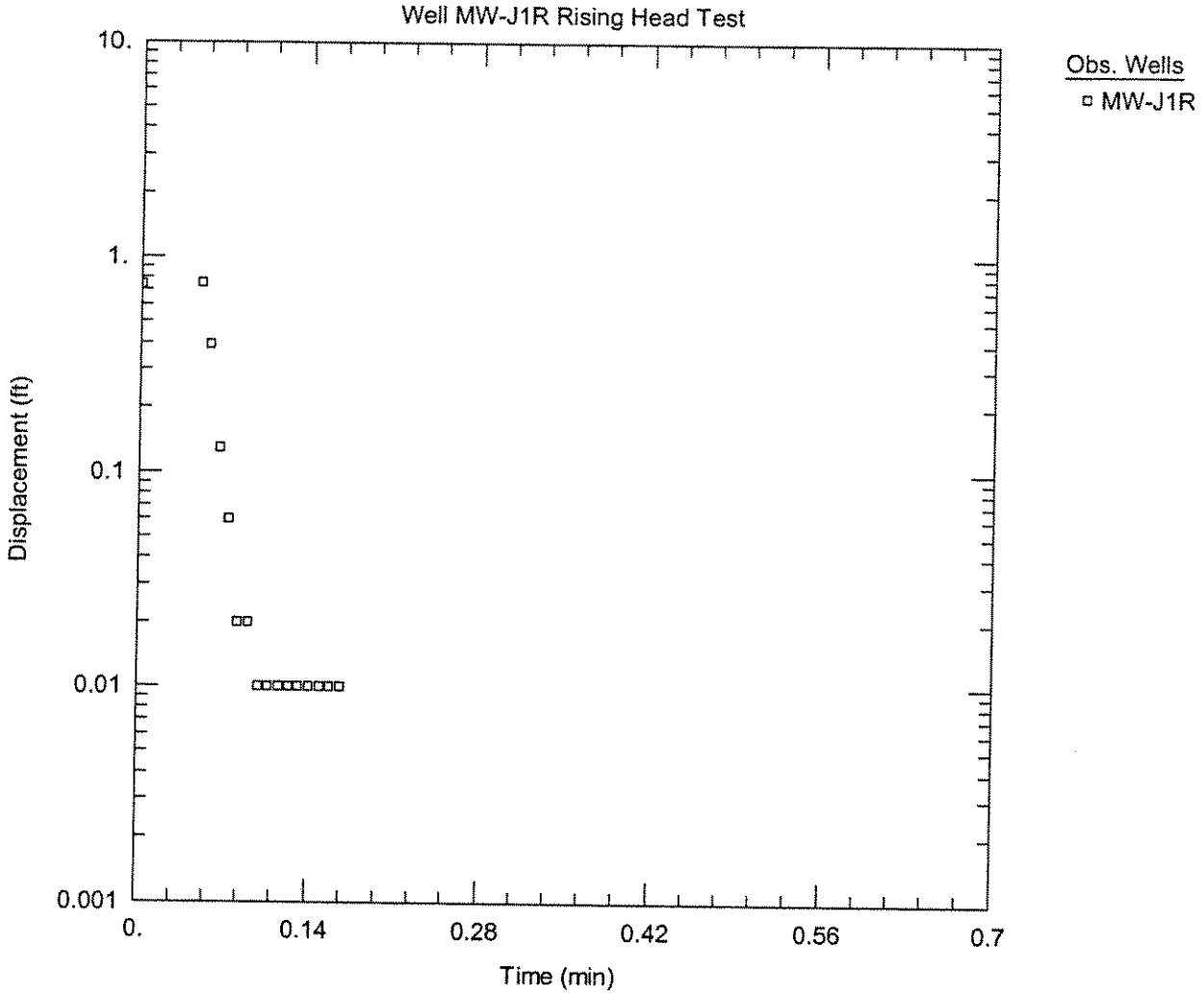


Figure C-10. Data from monitoring well MW-J1R. Well recovery occurred in 5.5 seconds. Due to the high permeability of this unit, an accurate hydraulic conductivity value could not be determined.

Appendix D

Data Validation Report

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

APPENDIX D

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 2

SPRING 2002 GROUNDWATER SAMPLING DATA VALIDATION REPORT

1.0 General

This attachment summarizes the Tier I and Tier II data review performed for groundwater samples collected at the Former Oxbows K & J Groundwater Management Area Plant Site 2 Groundwater Management Area (GMA 2) located in Pittsfield, Massachusetts. The samples were analyzed for various constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (hereafter referred to as Appendix IX+3), by CT&E Environmental Services Inc. of Charleston, West Virginia. Data validation was performed for 8 polychlorinated biphenyl (PCB) samples, 5 volatile organic compound (VOC) samples, 4 semi-volatile organic compound (SVOC) samples, 4 pesticide/herbicide samples, 4 polychlorinated dibenzo-p-dioxin (PCDD)/polychlorinated dibenzofuran (PCDF) samples, 4 metals samples, and 4 cyanide/sulfide samples that were collected.

2.0 Data Evaluation Procedures

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

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

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

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

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

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

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

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

3.0 Data Validation Procedures

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

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

	Tier I Only			Tier I &Tier II			
Parameter	**Samples**	**Duplicates**	**Blanks**	**Samples**	**Duplicates**	**Blanks**	**Total**
PCBs	0	0	0	8	0	0	8
VOCs	0	0	0	5	0	0	5
SVOCs	0	0	0	4	0	0	4
Pesticides/ Herbicides	0	0	0	4	0	0	4
PCDDs/PCDFs	0	0	0	4	0	0	4
Metals	0	0	0	8	0	0	8
Cyanide/Sulfide	0	0	0	4	0	0	4
Total	0	0	0	36	0	0	37

In the event that 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 USEPA Region I

As specified in the FSP/QAPP of the laboratory sample delivery group package to a Tier II review. A Tier II review was also performed to resolve data usability limitations that were identified from laboratory qualification of the data during the Tier I data review. The Tier II data review consisted of a review of all data package summary forms for identification of quality assurance/quality control (QA/QC) deviations and qualification of the data according to the Region I Data Validation Functional Guidelines. The Tier II review resulted in the qualification of data for several samples due to minor QA/QC deficiencies.

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

4.0 Data Review

Initial calibration criterion for organic analyses requires that the average relative response factor (RRF) have a value greater than 0.05. Sample results were qualified as an estimate (J) when this criterion was exceeded. The compounds that exceeded initial calibration criterion and the number of samples qualified are presented below.

Analysis Qualified Due to Initial Calibration RRF Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	2-Chloroethylvinylether	5	J
	Acetone	5	J
	Acetonitrile	5	J
	Acrolein	5	J
	Acrylonitrile	5	J
	Isobutanol	5	J
	Propionitrile	5	J
SVOCs	4-Phenylenediamine	4	J

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

Analysis Qualified Due to Continuing Calibration RRF Deviations

Analysis	Compound	Number of Affected Samples	Qualification
SVOCs	1,4-Dioxane	5	J

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

response. USEPA Region I guideline states that non-detected compound results associated with a RF less than the minimum value of 0.05 are to be rejected. In the case of these select organic compounds, the RF is an inherent problem with the current analytical methodology; therefore, the non-detected samples results were qualified as an estimate (J).

The continuing calibration criterion requires that the %D between the initial calibration RRF and the continuing calibration RRF for SVOCs be less than 25% and for herbicides be less than 15%. Sample data for detected and non-detected compounds with %D values that exceeded the continuing calibration criterion were qualified as approximated (J). A summary of the compounds that exceeded continuing calibration criterion and the number of samples qualified due to those deviations are identified below.

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compound	Number of Affected Samples	Qualification
SVOCs	2,3,4,6-Tetrachlorophenol	4	J
	4-Chlorobenzilate	4	J
	4-Nitroquinoline-1-oxide	4	J
	Aramite	4	J
	Hexachloropropene	4	J
	Pentachloronitrobenzene	4	J

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

Analytes Qualified Due to CRDL Deviations

Analysis	Analytes	Number of Affected Samples	Qualification
Inorganics	Thallium	8	J

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

Compounds Qualified Due to Blank Deviations

Analysis	Compound	Number of Affected Samples	Qualification
PCDDs/PCDFs	OCDD	2	U

Surrogate compounds are analyzed with every organic sample to aid in the evaluation of the sample extraction efficiency. For a number of samples, the incorrect amount of surrogate spiking solution was used during extraction procedure. Therefore, the samples were analyzed at no dilution and at a dilution to bring the

surrogates within calibration range. None of the data was subject to any qualification due to this method deviation. A summary of the affected samples due to this deviation are shown below.

Analysis	Qualification
PCBs	GMA2-4
	GMA2-5
	GMA2-8
	GMA2-9

5.0 Overall Data Usability

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

Data Usability

Parameter	Percent Usability	Rejected Data
Inorganics	100	None
Cyanide and Sulfide	100	None
Volatile Organics	100	None
Semivolatile Organics	100	None
PCBs	100	None
Pesticides and Herbicides	100	None
PCDDs/PCDFs	100	None

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

5.1 Precision

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

5.2 Accuracy

Accuracy measures the bias in an analytical system or the degree of agreement of a measurement with a known reference value. For this investigation, accuracy was defined as the percent recovery of QA/QC samples that were spiked with a known concentration of an analyte or compound of interest. The QA/QC samples used to evaluate analytical accuracy included instrument calibration, internal standards, laboratory control standards (LCSs), MS/MSD samples, contract required detection limit (CRDL) samples, and surrogate compound recoveries. For this analytical program, 6.6% of the data required qualification for calibration deviations and 0.77% of the data required qualification for CRDL standard recoveries. None of the data required qualification for MS/MSD recoveries, surrogate compound recoveries, internal standard recoveries, or LCS recoveries.

5.3 Representativeness

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

5.4 Comparability

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

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

5.5 Completeness

Completeness is defined as the percentage of measurements that are judged to be valid or usable to meet the prescribed DQOs. The completeness criterion is essentially the same for all data uses -- the generation of a sufficient amount of valid data. The actual completeness of this analytical data set was 100% for individual analytical parameters and had an overall usability of 100%, which is greater than the minimum required usability of 90% as specified in the FSP/QAPP.

TABLE D-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS K & J GROUNDWATER MANAGEMENT AREA BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

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

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs											
2D0P494	GMA2-4	4/17/2002	Water	Tier II	No						Incorrect amount of spike solution used during extraction procedure.
2D0P494	GMA2-4-filtered	4/17/2002	Water	Tier II	No						
2D0P494	GMA2-5	4/17/2002	Water	Tier II	No						Incorrect amount of spike solution used during extraction procedure.
2D0P494	GMA2-5-filtered	4/17/2002	Water	Tier II	No						
2D0P494	GMA2-8	4/16/2002	Water	Tier II	No						Incorrect amount of spike solution used during extraction procedure.
2D0P494	GMA2-8-filtered	4/16/2002	Water	Tier II	No						
2D0P494	GMA2-9	4/17/2002	Water	Tier II	No						Incorrect amount of spike solution used during extraction procedure.
2D0P494	GMA2-9-filtered	4/17/2002	Water	Tier II	No						
Pesticides and Herbicides											
2D0P494	GMA2-4	4/17/2002	Water	Tier II	No						
2D0P494	GMA2-5	4/17/2002	Water	Tier II	No						
2D0P494	GMA2-8	4/16/2002	Water	Tier II	No						
2D0P494	GMA2-9	4/17/2002	Water	Tier II	No						
Metals											
2D0P494	GMA2-4	4/17/2002	Water	Tier II	Yes	Thallium	CRDL Standard %R	77.6%	80% to 120%	ND(0.0100) J	
2D0P494	GMA2-4-filtered	4/17/2002	Water	Tier II	Yes	Thallium	CRDL Standard %R	77.6%	80% to 120%	ND(0.0100) J	
2D0P494	GMA2-5	4/17/2002	Water	Tier II	Yes	Thallium	CRDL Standard %R	77.6%	80% to 120%	ND(0.0100) J	
2D0P494	GMA2-5-filtered	4/17/2002	Water	Tier II	Yes	Thallium	CRDL Standard %R	77.6%	80% to 120%	ND(0.0100) J	
2D0P494	GMA2-8	4/16/2002	Water	Tier II	Yes	Thallium	CRDL Standard %R	77.6%	80% to 120%	ND(0.0100) J	
2D0P494	GMA2-8-filtered	4/16/2002	Water	Tier II	Yes	Thallium	CRDL Standard %R	77.6%	80% to 120%	ND(0.0100) J	
2D0P494	GMA2-9	4/17/2002	Water	Tier II	Yes	Thallium	CRDL Standard %R	77.6%	80% to 120%	ND(0.0100) J	
2D0P494	GMA2-9-filtered	4/17/2002	Water	Tier II	Yes	Thallium	CRDL Standard %R	77.6%	80% to 120%	ND(0.0100) J	
VOCs											
2D0P494	GMA2-4	4/17/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	ICAL RRF	0.049	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P494	GMA2-5	4/17/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	ICAL RRF	0.049	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P494	GMA2-8	4/16/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	ICAL RRF	0.049	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	

TABLE D-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

FORMER OXBOWS K & J GROUNDWATER MANAGEMENT AREA BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

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

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
2D0P494	GMA2-9	4/17/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	ICAL RRF	0.049	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P494	TRIP BLANK	4/17/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	ICAL RRF	0.049	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
SVOCs											
2D0P494	GMA2-4	4/17/2002	Water	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	31.1%	<30%	ND(0.010) J	
						4-Chlorobenzilate	CCAL %D	72.8%	<30%	ND(0.010) J	
						4-Nitroquinoline-1-oxide	CCAL %D	36.7%	<30%	ND(0.010) J	
						4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	
						Aramite	CCAL %D	45.9%	<30%	ND(0.010) J	
						Hexachloropropene	CCAL %D	35.9%	<30%	ND(0.010) J	
						Pentachloronitrobenzene	CCAL %D	34.3%	<30%	ND(0.010) J	
2D0P494	GMA2-5	4/17/2002	Water	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	31.1%	<30%	ND(0.010) J	
						4-Chlorobenzilate	CCAL %D	72.8%	<30%	ND(0.010) J	
						4-Nitroquinoline-1-oxide	CCAL %D	36.7%	<30%	ND(0.010) J	
						4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	
						Aramite	CCAL %D	45.9%	<30%	ND(0.010) J	
						Hexachloropropene	CCAL %D	35.9%	<30%	ND(0.010) J	
						Pentachloronitrobenzene	CCAL %D	34.3%	<30%	ND(0.010) J	
2D0P494	GMA2-8	4/16/2002	Water	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	31.1%	<30%	ND(0.010) J	
						4-Chlorobenzilate	CCAL %D	72.8%	<30%	ND(0.010) J	
						4-Nitroquinoline-1-oxide	CCAL %D	36.7%	<30%	ND(0.010) J	
						4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	
						Aramite	CCAL %D	45.9%	<30%	ND(0.010) J	
						Hexachloropropene	CCAL %D	35.9%	<30%	ND(0.010) J	
						Pentachloronitrobenzene	CCAL %D	34.3%	<30%	ND(0.010) J	
2D0P494	GMA2-9	4/17/2002	Water	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	31.1%	<30%	ND(0.010) J	
						4-Chlorobenzilate	CCAL %D	72.8%	<30%	ND(0.010) J	
						4-Nitroquinoline-1-oxide	CCAL %D	36.7%	<30%	ND(0.010) J	
						4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	
						Aramite	CCAL %D	45.9%	<30%	ND(0.010) J	
						Hexachloropropene	CCAL %D	35.9%	<30%	ND(0.010) J	
						Pentachloronitrobenzene	CCAL %D	34.3%	<30%	ND(0.010) J	
PCDDs/PCDFs											
2D0P494	GMA2-4	4/17/2002	Water	Tier II	Yes	OCDD	Method Blank	-	-	ND(0.000000020)	
2D0P494	GMA2-5	4/17/2002	Water	Tier II	No						
2D0P494	GMA2-8	4/16/2002	Water	Tier II	Yes	OCDD	Method Blank	-	-	ND(0.000000015)	
2D0P494	GMA2-9	4/17/2002	Water	Tier II	No						
Sulfide and Cyanide											
2D0P494	GMA2-4	4/17/2002	Water	Tier II	No						
2D0P494	GMA2-5	4/17/2002	Water	Tier II	No						
2D0P494	GMA2-8	4/16/2002	Water	Tier II	No						
2D0P494	GMA2-9	4/17/2002	Water	Tier II	No						Duplicate of GMA5-2