



GE
159 Plastics Avenue
Pittsfield, MA 01201
USA

Transmitted via Overnight Courier

August 9, 2006

Mr. Dean Tagliaferro
U.S. Environmental Protection Agency
Region I – New England
10 Lyman Street, Suite 2
Pittsfield, MA 01201

Ms. Susan Steenstrup
Bureau of Waste Site Cleanup
Department of Environmental Protection
436 Dwight Street
Springfield, MA 01103

**Re: GE-Pittsfield/Housatonic River Site
Monthly Status Report Pursuant to Consent Decree for July 2006 (GECD900)**

Dear Mr. Tagliaferro and Ms. Steenstrup:

Enclosed are copies of General Electric's (GE's) monthly progress report for July 2006 activities conducted by GE at the GE-Pittsfield/Housatonic River Site. This monthly report is submitted pursuant to Paragraph 67 of the Consent Decree (CD) for this Site, which was entered by the U.S. District Court on October 27, 2000.

The enclosed monthly report includes not only the activities conducted by GE under the CD, but also other activities conducted by GE at the GE-Pittsfield/Housatonic River Site (as defined in the CD). The report is formatted to apply to the various areas of the Site as defined in the CD, and to provide for each area, the information specified in Paragraph 67 of the CD. The activities conducted specifically pursuant to or in connection with the CD are marked with an asterisk. GE is submitting a separate monthly report to the Massachusetts Department of Environmental Protection (MDEP), with a copy to the United States Environmental Protection Agency (EPA), describing the activities conducted by GE at properties outside the CD Site pursuant to GE's November 2000 Administrative Consent Order from MDEP.

The enclosed monthly report includes, where applicable, tables that list the samples collected during the subject month, summarize the analytical results received during that month from sampling or other testing activities, and summarize other groundwater monitoring and oil recovery information obtained during that month. Also, enclosed for each of you (and for Weston) is a CD-ROM that contains these same tables of the analytical data and monitoring information in electronic form.

Please call Andrew Silber or me if you have any questions.

Sincerely,

Richard W. Gates
Remediation Project Manager

Enclosure

V:\GE_Pittsfield_General\Reports and Presentations\Monthly Reports\2006\7-06 CD Monthly\Letter.doc

cc: Robert Cianciarulo, EPA (cover letter only)
Tim Conway, EPA (cover letter only)
Sharon Hayes, EPA
William Lovely, EPA (Items 7, 8, 9, 10, 11, 12, 16/17, 22, 23, and 25 only)
Rose Howell, EPA (cover letter and CD-ROM of report)
Holly Inglis, EPA (hard copy and CD-ROM of report)
Susan Svirsky, EPA (Items 7, 15, and 20 only)
K.C. Mitkevicius, USACE (CD-ROM of report)
Thomas Angus, MDEP (cover letter only)
Jane Rothchild, MDEP (cover letter only)
Anna Symington, MDEP (cover letter only)
Nancy E. Harper, MA AG
Susan Peterson, CT DEP
Field Supervisor, US FWS, DOI
Kenneth Finkelstein, Ph.D., NOAA (Items 13, 14, and 15 only)
Dale Young, MA EOE
Mayor James Ruberto, City of Pittsfield
Thomas Hickey, Director, Pittsfield Economic Development Authority
Linda Palmieri, Weston
Richard Nasman, P.E., Berkshire Gas (CD-ROM of report)
Michael Carroll GE (CD-ROM of report)
Andrew Silber, GE (cover letter only)
Rod McLaren, GE (CD-ROM of report)
James Nuss, BBL
James Bieke, Goodwin Procter
Jim Rhea, QEA (narrative only)
Teresa Bowers, Gradient
Public Information Repositories (1 hard copy, 5 copies of CD-ROM)
GE Internal Repository (1 hard copy)

(w/o separate CD-ROM, except where noted)

July 2006

**MONTHLY STATUS REPORT
PURSUANT TO CONSENT DECREE
FOR
GE-PITTSFIELD/HOUSATONIC RIVER
SITE**

GENERAL ELECTRIC COMPANY



PITTSFIELD, MASSACHUSETTS

Background

The General Electric Company (GE), the United States Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MDEP), and other governmental entities have entered into a Consent Decree (CD) for the GE-Pittsfield/Housatonic River Site, which was entered by the U.S. Court on October 27, 2000. In accordance with Paragraph 67 of the CD, GE is submitting this monthly report, prepared on GE's behalf by Blasland, Bouck & Lee, Inc. (BBL), which summarizes the status of activities conducted by GE at the GE-Pittsfield/Housatonic River Site ("Site") (as defined in the CD).

This report covers activities in the areas listed below (as defined in the CD and/or the accompanying Statement of Work for Removal Actions Outside the River [SOW]). Only those areas that have had work activities for the month subject to reporting are included. The specific activities conducted pursuant to or in connection with the CD are noted with an asterisk.

General Activities (GECD900)

GE Plant Area (non-groundwater)

1. 20s, 30s, 40s Complexes (GECD120)
2. East Street Area 2 – South (GECD150)
3. East Street Area 2 – North (GECD140)
4. East Street Area 1 – North (GECD130)
5. Hill 78 and Building 71 Consolidation Areas (GECD210/220)
6. Hill 78 Area – Remainder (GECD160)
7. Unkamet Brook Area (GECD170)

Former Oxbow Areas (non-groundwater)

8. Former Oxbow Areas A & C (GECD410)
9. Lyman Street Area (GECD430)
10. Newell Street Area I (GECD440)
11. Newell Street Area II (GECD450)
12. Former Oxbow Areas J & K (GECD420)

Housatonic River

13. Upper ½-Mile Reach (GECD800)
14. 1½-Mile Reach (only for activities, if any, conducted by GE) (GECD820)
15. Rest of the River (GECD850)

Housatonic River Floodplain

16. Current Residential Properties Adjacent to 1½-Mile Reach (Actual/Potential Lawns) (GECD710)
17. Non-Residential Properties Adjacent to 1½-Mile Reach (excluding banks) (GECD720)
18. Current Residential Properties Downstream of Confluence (Actual/Potential Lawns) (GECD730)

Other Areas

19. Allendale School Property (GECD500)
20. Silver Lake Area (GECD600)

Groundwater Management Areas (GMAs)

21. Plant Site 1 (GECD310)
22. Former Oxbows J & K (GECD320)
23. Plant Site 2 (GECD330)
24. Plant Site 3 (GECD340)
25. Former Oxbows A&C (GECD350)

**GENERAL ACTIVITIES
GE-PITTSFIELD/HOUSATONIC RIVER SITE
(GECD900)
JULY 2006**

a. Activities Undertaken/Completed

Continued GE-EPA electronic data exchanges for the Housatonic River Watershed and Areas Outside the River.*

b. Sampling/Test Results Received

- Sample results were received for routine sampling conducted pursuant to GE's NPDES Permit for the GE facility. Sampling records and results are provided in Attachment A to this report.
- NPDES Discharge Monitoring Reports (DMRs) for the period of June 1 through June 30, 2006, are provided in Attachment B to this report.
- GE received a report from Columbia Analytical Services, Inc. (CAS) titled *NPDES Biomonitoring Report for July 2006*, which included analytical results for samples collected for NPDES-related whole effluent toxicity testing, as well as an attached report from Aquatec Biological Sciences providing the results of the whole effluent toxicity testing performed in July 2006. A copy of this document is provided in Attachment C.
- GE received a report from CAS titled *NPDES Chronic Biomonitoring Report for July 2006*, which included analytical results for samples collected for NPDES-related chronic whole effluent testing, as well as an attached report from Aquatec Biological Sciences providing the results of the chronic whole effluent toxicity testing performed in July 2006. A copy of that report is provided in Attachment D.

c. Work Plans/Reports/Documents Submitted

Submitted to EPA a letter presenting the results of a preliminary assessment of compensatory flood storage volumes for the portion of the Housatonic River floodplain between the Newell Street and Lyman Street bridges (July 13, 2006).*

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

- Continue NPDES sampling and monitoring activities.
- Attend public and Citizens Coordinating Council (CCC) meetings, as appropriate.
- Submit revised *Project Operations Plan* (POP) following receipt of EPA comments on February 2006 draft.*
- Submit revised *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP) following receipt of EPA comments on February 2006 draft.*
- Submit additional modification to FSP/QAPP regarding the cleaning procedure associated with the EPA TO-4 PUF analysis for air monitoring.*

GENERAL ACTIVITIES
(cont'd)
GE-PITTSFIELD/HOUSATONIC RIVER SITE
(GECD900)
JULY 2006

e. **General Progress/Unresolved Issues/Potential Schedule Impacts**

No issues

f. **Proposed/Approved Work Plan Modifications**

None

**ITEM 1
PLANT AREA
20s, 30s, 40s COMPLEXES
(GECD120)
JULY 2006**

a. Activities Undertaken/Completed

- Continued processing and stockpiling of crushed materials, and continued site restoration activities associated with 40s Complex demolition activities.
- Conducted air monitoring for particulates and PCBs in connection with demolition activities in the 40s Complex, as identified in Table 1-1.
- Conducted building material characterization sampling at the Building 32 Substation in support of future demolition activities (July 19, 2006).*
- With EPA approval, relocated Air Monitoring Station W3 approximately 100 feet east of its former location (as depicted on figure transmitted to EPA on July 21, 2006).
- Conducted a meeting with the Pittsfield Economic Development Authority (PEDA) to discuss items related to future development of the 20s and 30s Complexes, as well as future transfer of the 40s Complex (July 21, 2006).

b. Sampling/Test Results Received

See attached tables.

c. Work Plans/Reports/Documents Submitted

None

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

- Complete site restoration activities (including utility modifications) associated with 40s Complex demolition activities.
- Complete construction of crushed material stockpile at 40s Complex.
- Initiate installation of erosion control measures (riprap, topsoil, seed, etc.) at the crushed material stockpile and the material wedge along Kellogg Street and Woodlawn Avenue.
- Submit building materials' characterization sampling report regarding Building 32 Substation to EPA.*
- Initiate pre-demolition removal activities (e.g., asbestos abatement, equipment/liquids removal) at Building 32 Substation.

ITEM 1
(cont'd)
PLANT AREA
20s, 30s, 40s COMPLEXES
(GEC120)
JULY 2006

e. **General Progress/Unresolved Issues/Potential Schedule Impacts**

No issues

f. **Proposed/Approved Work Plan Modifications**

None

**TABLE 1-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**20s, 30s, 40s COMPLEX
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Building 32 Substation Sampling	SUB32-EW-1	7/19/06	Solid	SGS	PCB	7/25/06
Building 32 Substation Sampling	SUB32-NW-1	7/19/06	Solid	SGS	PCB	7/25/06
Building 32 Substation Sampling	SUB32-SW-1	7/19/06	Solid	SGS	PCB	7/25/06
Building 32 Substation Sampling	SUB32-WC-1	7/19/06	Solid	SGS	TCLP	7/25/06
Building 32 Substation Sampling	SUB32-WW-1	7/19/06	Solid	SGS	PCB	7/25/06
Building 32 Substation Sampling	T31-4-OIL-1	7/19/06	Oil	SGS	PCB	7/25/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/5/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/5/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/5/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/5/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Background Location	7/5/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/6/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/6/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/6/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/6/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Background Location	7/6/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/7/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/7/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/7/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/7/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Background Location	7/7/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/10/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/10/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/10/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/10/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	Background Location	7/10/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/11/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/11/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/11/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/11/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	Background Location	7/11/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/18/06

**TABLE 1-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**20s, 30s, 40s COMPLEX
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Ambient Air Particulate Matter Sampling	Background Location	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	Background Location	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	Background Location	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/15/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/15/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/15/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/15/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	Background Location	7/15/06	Air	Berkshire Environmental	Particulate Matter	7/18/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Background Location	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/18/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/18/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/18/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/18/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Background Location	7/18/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/19/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/19/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/19/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/19/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Background Location	7/19/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/20/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/20/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/20/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/20/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Background Location	7/20/06	Air	Berkshire Environmental	Particulate Matter	7/24/06

**TABLE 1-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**20s, 30s, 40s COMPLEX
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/21/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/21/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/21/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/21/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Background Location	7/21/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/24/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/24/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/24/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/24/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Background Location	7/24/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/25/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/25/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/25/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/25/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Background Location	7/25/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/26/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/26/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/26/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/26/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Background Location	7/26/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/27/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/27/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/27/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/27/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Background Location	7/27/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/28/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/28/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/28/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/28/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Background Location	7/28/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	7/31/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	7/31/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	7/31/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	7/31/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	Background Location	7/31/06	Air	Berkshire Environmental	Particulate Matter	8/1/06

**TABLE 1-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**20s, 30s, 40s COMPLEX
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
PCB Ambient Air Sampling	Field Blank	7/20 - 7/21/06	Air	Berkshire Environmental	PCB	7/27/06
PCB Ambient Air Sampling	W3 - West of 40s Complex	7/20 - 7/21/06	Air	Berkshire Environmental	PCB	7/27/06
PCB Ambient Air Sampling	S2 - Woodlawn Avenue	7/20 - 7/21/06	Air	Berkshire Environmental	PCB	7/27/06
PCB Ambient Air Sampling	M2 - South of Bldg. 5	7/20 - 7/21/06	Air	Berkshire Environmental	PCB	7/27/06
PCB Ambient Air Sampling	M2-CO South of Bldg. 5	7/20 - 7/21/06	Air	Berkshire Environmental	PCB	7/27/06
PCB Ambient Air Sampling	MC3 - Near Bldg. 16 & 19	7/20 - 7/21/06	Air	Berkshire Environmental	PCB	7/27/06
PCB Ambient Air Sampling	BK3-Background - East of Building 9B	7/20 - 7/21/06	Air	Berkshire Environmental	PCB	7/27/06

**TABLE 1-2
PCB DATA RECEIVED DURING JULY 2006**

**BUILDING 32 SUBSTATION SAMPLING
20s, 30s, 40s COMPLEX
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Sample ID	Matrix	Date Collected	Aroclor-1016	Aroclor -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
SUB32-EW-1	Solid	7/19/2006	ND(0.030)	ND(0.030)	0.36	0.23	0.59
SUB32-NW-1	Solid	7/19/2006	ND(0.030)	ND(0.030)	0.065	0.045	0.11
SUB32-SW-1	Solid	7/19/2006	ND(0.031)	ND(0.031)	0.097	0.055	0.152
SUB32-WW-1	Solid	7/19/2006	0.039	ND(0.030)	ND(0.030)	0.21	0.249
T31-4-OIL-1	Oil	7/19/2006	ND(0.92)	ND(0.92)	ND(0.92)	ND(0.92)	ND(0.92)

Notes:

1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of PCBs
2. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.
3. Solid matrix samples are presented in dry weight.

**TABLE 1-3
TCLP DATA RECEIVED DURING JULY 2006**

**BUILDING 32 SUBSTATION SAMPLING
20s, 30s, 40s COMPLEX
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Sample ID: Date Collected:	TCLP Regulatory Limits	SUB32-WC-1 7/19/2006
Volatile Organics			
1,1-Dichloroethene		0.7	ND(0.010)
1,2-Dichloroethane		0.5	ND(0.010)
2-Butanone		200	ND(0.25)
Benzene		0.5	0.026
Carbon Tetrachloride		0.5	ND(0.010)
Chlorobenzene		100	ND(0.010)
Chloroform		6	ND(0.010)
Tetrachloroethene		0.7	ND(0.010)
Trichloroethene		0.5	0.019
Vinyl Chloride		0.2	ND(0.010)
Semivolatile Organics			
1,4-Dichlorobenzene		7.5	ND(0.010)
2,4,5-Trichlorophenol		400	ND(0.010)
2,4,6-Trichlorophenol		2	ND(0.010)
2,4-Dinitrotoluene		0.13	ND(0.010)
Cresol		200	ND(0.010)
Hexachlorobenzene		0.13	ND(0.010)
Hexachlorobutadiene		0.5	ND(0.010)
Hexachloroethane		3	ND(0.010)
Nitrobenzene		2	ND(0.010)
Pentachlorophenol		100	ND(0.050)
Pyridine		5	ND(0.010)
Inorganics			
Arsenic		5	ND(0.200)
Barium		100	2.04 B
Cadmium		1	ND(0.100)
Chromium		5	0.0255 B
Lead		5	ND(0.100)
Mercury		0.2	ND(0.000570)
Selenium		1	0.203
Silver		5	ND(0.100)

Notes:

1. Sample was collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of TCLP constituents.
2. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.

Data Qualifiers:

Inorganics

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

**TABLE 1-4
 AMBIENT AIR PCB DATA RECEIVED DURING JULY 2006**

**40s COMPLEX DEMOLITION ACTIVITIES
 20s, 30s, 40s COMPLEX
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Event Period	Date Analytical Results Received by BEC, Inc.	Field Blank (µg/PUF)	W3 - West of 40s Complex (µg/m3)	S2 - Woodlawn Avenue (µg/m3)	M2 - South of Bldg. 5 (µg/m3)	M2-CO South of Bldg. 5 (µg/m3)	MC3 - Near Bldg. 16 & 19 (µg/m3)	BK3-Background - East of Building 9B (µg/m3)
7/20 - 7/21/06	7/27/06	ND (<0.10) J	0.0273	0.0029	0.0048	0.0054	0.0039	0.0021
Notification Level			0.05	0.05	0.05	0.05	0.05	0.05

Notes:

ND - Non-Detect

J - Detected sample results were qualified as estimated.

1. Preliminary data review was conducted based on the following data quality indicators associated with the tabulated data set above: sampling collection time, sampling calibration check, temperature receipt, associated blanks, laboratory control samples recoveries, and surrogate recoveries.

Qualification Notes:

1. All samples collected from 07/20/06 to 07/21/06 were greater than 4°C (PUF temperature was 20.2°C) upon laboratory receipt. The temperature of the temperature blank was recorded as less than 4°C. Following an investigation of the laboratory concerning the temperature receipt of PUF samples exhibiting a temperature greater than 6°C, the laboratory has discovered that the laboratory receipt technician was taking the temperature of the PUF while still wrapped in foil. The foil wrapped around the PUF caused an erroneous temperature reading from the IR thermometer. This was confirmed by: 1) the temperature blank exhibiting a temperature less than 4°C and; 2) the laboratory receipt technician peeled back the foil of the of PUF samples receipt on 8/1/06 and a temperature reading of less than 5°C was observed; therefore, none of the data were qualified due to the documented PUF temperature deviation.
2. The Field Blank was qualified as estimated due to both surrogate recoveries below the lower control limit.

**TABLE 1-5
 AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING JULY 2006¹**

**40s COMPLEX DEMOLITION ACTIVITIES
 20s, 30s, 40s COMPLEX
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Date ²	Sampler Location	Average Site Concentration (mg/m ³)	Background Site Concentration (mg/m ³)	Average Period (Hours:Min)	Predominant Wind Direction
7/5/06	W3 - West of 40s Complex	0.019*	0.021*	10:00	WNW
	MC3 - Near Bldg. 16 & 19	0.016**		11:15	
	M2 - South of Bldg. 5	0.027*		10:45	
	S2 - Woodlawn Avenue	0.024**		11:15	
7/6/06	W3 - West of 40s Complex	0.007*	0.006*	10:15	WNW
	MC3 - Near Bldg. 16 & 19	0.006**		11:15	
	M2 - South of Bldg. 5	0.009*		10:45	
	S2 - Woodlawn Avenue	0.014**		11:15	
7/7/06	W3 - West of 40s Complex	0.012*	0.008*	11:45	WNW
	MC3 - Near Bldg. 16 & 19	0.009**		11:15	
	M2 - South of Bldg. 5	0.013*		11:45	
	S2 - Woodlawn Avenue	0.007**		11:15	
7/10/06	W3 - West of 40s Complex	0.043*	0.056*	10:45	Variable
	MC3 - Near Bldg. 16 & 19	0.025**		11:15	
	M2 - South of Bldg. 5	0.046*		10:45	
	S2 - Woodlawn Avenue	0.028**		11:15	
7/11/06	W3 - West of 40s Complex	0.061*	0.070*	10:45	NNW, WNW
	MC3 - Near Bldg. 16 & 19	0.043 ³		10:15	
	M2 - South of Bldg. 5	0.085*		10:45	
	S2 - Woodlawn Avenue	0.041 ³		10:15	
7/12/06	W3 - West of 40s Complex	0.053*	0.040*	10:45	Calm
	MC3 - Near Bldg. 16 & 19	0.072*		10:30	
	M2 - South of Bldg. 5	0.057*		10:45	
	S2 - Woodlawn Avenue	0.061*		10:45	
7/13/06	W3 - West of 40s Complex	0.009*	0.007*	12:00	NNE, W
	MC3 - Near Bldg. 16 & 19	0.008*		11:45	
	M2 - South of Bldg. 5	0.002*		9:30 ⁴	
	S2 - Woodlawn Avenue	0.005*		11:45	
7/14/06	W3 - West of 40s Complex	0.022*	0.021*	11:00	WNW
	MC3 - Near Bldg. 16 & 19	0.028*		10:45	
	M2 - South of Bldg. 5	0.027*		10:45	
	S2 - Woodlawn Avenue	0.029*		10:45	
7/15/06	W3 - West of 40s Complex	0.036*	0.034*	11:30	SSW
	MC3 - Near Bldg. 16 & 19	0.053*		11:30	
	M2 - South of Bldg. 5	0.042*		11:30	
	S2 - Woodlawn Avenue	0.043*		11:30	
7/17/06	W3 - West of 40s Complex	0.017*	0.013*	10:15	Variable
	MC3 - Near Bldg. 16 & 19	0.012*		10:15	
	M2 - South of Bldg. 5	0.015*		10:30	
	S2 - Woodlawn Avenue	0.023*		10:30	
7/18/06	W3 - West of 40s Complex	0.021*	0.024*	11:00	WNW
	MC3 - Near Bldg. 16 & 19	0.025*		10:15	
	M2 - South of Bldg. 5	0.031*		10:15	
	S2 - Woodlawn Avenue	0.032*		10:15	
7/19/06	W3 - West of 40s Complex	0.017*	0.013*	10:30	Calm
	MC3 - Near Bldg. 16 & 19	0.007*		10:30	
	M2 - South of Bldg. 5	0.017*		10:45	
	S2 - Woodlawn Avenue	0.018*		10:45	
7/20/06	W3 - West of 40s Complex	0.020*	0.004*	10:15	Calm
	MC3 - Near Bldg. 16 & 19	0.009*		10:30	
	M2 - South of Bldg. 5	0.017*		10:30	
	S2 - Woodlawn Avenue	0.020*		10:30	
7/21/06	W3 - West of 40s Complex	0.038*	0.056*	11:45	Variable
	MC3 - Near Bldg. 16 & 19	0.057*		11:15	
	M2 - South of Bldg. 5	0.040*		11:15	
	S2 - Woodlawn Avenue	0.040*		11:15	
7/24/06	W3 - West of 40s Complex	0.013*	0.009*	10:45	Variable
	MC3 - Near Bldg. 16 & 19	0.004*		10:30	
	M2 - South of Bldg. 5	0.008*		10:30	
	S2 - Woodlawn Avenue	0.008*		10:30	

**TABLE 1-5
 AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING JULY 2006¹**

**40s COMPLEX DEMOLITION ACTIVITIES
 20s, 30s, 40s COMPLEX
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Date ²	Sampler Location	Average Site Concentration (mg/m ³)	Background Site Concentration (mg/m ³)	Average Period (Hours:Min)	Predominant Wind Direction
7/25/06	W3 - West of 40s Complex	0.046*	0.038*	10:15	SSW
	MC3 - Near Bldg. 16 & 19	0.024*		10:15	
	M2 - South of Bldg. 5	0.041*		10:15	
	S2 - Woodlawn Avenue	0.031*		9:45	
7/26/06	W3 - West of 40s Complex	0.057*	0.045*	10:30	Variable
	MC3 - Near Bldg. 16 & 19	0.033*		10:30	
	M2 - South of Bldg. 5	0.061*		10:30	
	S2 - Woodlawn Avenue	0.043*		10:30	
7/27/06	W3 - West of 40s Complex	0.097*	0.082*	11:00	SSW
	MC3 - Near Bldg. 16 & 19	0.055*		7:15 ⁴	
	M2 - South of Bldg. 5	0.111*		10:45	
	S2 - Woodlawn Avenue	0.076*		11:00	
7/28/06	W3 - West of 40s Complex	0.048*	0.041*	10:30	SSW
	MC3 - Near Bldg. 16 & 19	0.074*		10:15	
	M2 - South of Bldg. 5	0.047*		10:15	
	S2 - Woodlawn Avenue	0.046*		10:15	
7/31/06	W3 - West of 40s Complex	0.017*	0.015*	10:00	Variable
	MC3 - Near Bldg. 16 & 19	0.026*		10:15	
	M2 - South of Bldg. 5	0.016*		10:00	
	S2 - Woodlawn Avenue	0.013*		10:00	
Notification Level		0.120			

Notes:

* Measured with a DR-2000 or DR-4000.

** Measured with an EBAM.

Background monitoring station is located east of Building 9B, between 9B and New York Avenue.

Predominant wind direction determined using hourly wind direction data from the Pittsfield Municipal Airport Weather Station.

¹ Monitoring was performed only on days when site activities occurred.

² The particulate monitors obtain real-time data. The sampling data were obtained by BEC on the sampling date.

³ Represents data from a DR-4000 and an EBAM.

⁴ Sampling period was shortened due to equipment malfunction.

**ITEM 2
PLANT AREA
EAST STREET AREA 2-SOUTH
(GECD150)
JULY 2006**

a. Activities Undertaken/Completed

Conducted Liquid-Phase Carbon Absorption (LPCA) sampling at Building 64G, as identified in Table 2-1.

b. Sampling/Test Results Received

See attached tables.

c. Work Plans/Reports/Documents Submitted

None

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

- Continue routine process sampling at Buildings 64G and/or 64T.
- Submit to EPA and MDEP a revised draft Grant of Environmental Restriction and Easement (ERE) and survey plans for the City Recreational Area.*

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

None

**TABLE 2-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**EAST STREET AREA 2 - SOUTH
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Building 64G LPCA Monitoring	G6-64G-01	7/18/06	Water	Columbia	VOC	7/26/06
Building 64G LPCA Monitoring	G6-64G-02	7/18/06	Water	Columbia	SVOC	Cancelled
Building 64G LPCA Monitoring	G6-64G-03	7/18/06	Water	Accutest	PCB	Cancelled
Building 64G LPCA Monitoring	G6-64G-04	7/18/06	Water	Columbia	Oil & Grease	7/26/06
Building 64G LPCA Monitoring	G6-64G-05	7/18/06	Water	Columbia	VOC	7/26/06
Building 64G LPCA Monitoring	G6-64G-06	7/18/06	Water	Columbia	SVOC	7/26/06
Building 64G LPCA Monitoring	G6-64G-07	7/18/06	Water	Accutest	PCB	
Building 64G LPCA Monitoring	G6-64G-08	7/18/06	Water	Columbia	Oil & Grease	7/26/06
Building 64G LPCA Monitoring	G6-64G-09	7/18/06	Water	Columbia	VOC	7/26/06
Building 64G LPCA Monitoring	G6-64G-10	7/18/06	Water	Columbia	SVOC	7/26/06
Building 64G LPCA Monitoring	G6-64G-11	7/18/06	Water	Accutest	PCB	
Building 64G LPCA Monitoring	G6-64G-12	7/18/06	Water	Columbia	Oil & Grease	7/26/06
Building 64G LPCA Monitoring	G6-64G-13	7/18/06	Water	Columbia	VOC	7/26/06
Building 64G LPCA Monitoring	G6-64G-14	7/18/06	Water	Columbia	SVOC	7/26/06
Building 64G LPCA Monitoring	G6-64G-15	7/18/06	Water	Accutest	PCB	
Building 64G LPCA Monitoring	G6-64G-16	7/18/06	Water	Columbia	Oil & Grease	7/26/06

TABLE 2-2
DATA RECEIVED DURING JULY 2006

BUILDING 64G LPCA MONITORING
EAST STREET AREA 2 - SOUTH
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	G6-64G-01 07/18/06	G6-64G-04 07/18/06	G6-64G-05 07/18/06	G6-64G-06 07/18/06	G6-64G-08 07/18/06	G6-64G-09 07/18/06
Volatile Organics							
1,1,1-Trichloroethane		0.0026	NA	0.0026	NA	NA	0.0026
1,1-Dichloroethane		0.0019	NA	0.0022	NA	NA	0.0026
Benzene		0.049	NA	ND(0.00021)	NA	NA	ND(0.00021)
Chlorobenzene		0.19	NA	0.00065	NA	NA	ND(0.00022)
Chloroethane		0.00099	NA	0.00096	NA	NA	0.0010
Chloroform		0.00026	NA	0.00054	NA	NA	0.00081
Ethylbenzene		0.059	NA	ND(0.00035)	NA	NA	ND(0.00035)
Toluene		0.0027	NA	ND(0.00028)	NA	NA	ND(0.00028)
trans-1,2-Dichloroethene		0.00032	NA	ND(0.00022)	NA	NA	ND(0.00022)
Trichloroethene		0.00045	NA	ND(0.00040)	NA	NA	ND(0.00040)
Vinyl Chloride		0.0049	NA	0.0026	NA	NA	0.0021
Semivolatile Organics							
Di-n-Butylphthalate		NA	NA	NA	0.0017 J	NA	NA
Conventionals							
Oil & Grease		NA	ND(5.3)	NA	NA	ND(5.2)	NA

**TABLE 2-2
DATA RECEIVED DURING JULY 2006**

**BUILDING 64G LPCA MONITORING
EAST STREET AREA 2 - SOUTH
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Sample ID: Date Collected:	G6-64G-10 07/18/06	G6-64G-12 07/18/06	G6-64G-13 07/18/06	G6-64G-14 07/18/06	G6-64G-16 07/18/06
Volatile Organics						
1,1,1-Trichloroethane		NA	NA	0.0016	NA	NA
1,1-Dichloroethane		NA	NA	0.0024	NA	NA
Benzene		NA	NA	ND(0.00021)	NA	NA
Chlorobenzene		NA	NA	ND(0.00022)	NA	NA
Chloroethane		NA	NA	0.00096	NA	NA
Chloroform		NA	NA	0.00062	NA	NA
Ethylbenzene		NA	NA	ND(0.00035)	NA	NA
Toluene		NA	NA	ND(0.00028)	NA	NA
trans-1,2-Dichloroethene		NA	NA	ND(0.00022)	NA	NA
Trichloroethene		NA	NA	ND(0.00040)	NA	NA
Vinyl Chloride		NA	NA	0.0010	NA	NA
Semivolatile Organics						
Di-n-Butylphthalate		0.0021 J	NA	NA	ND(0.0051)	NA
Inorganics-Unfiltered						
Conventionals		NA	ND(5.2)	NA	NA	ND(5.3)

Notes:

1. Samples were collected by General Electric Company and submitted to Columbia Analytical Services, Inc. for analysis of volatiles, semivolatiles, and oil & grease.
2. NA - Not Analyzed.
3. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.
4. With the exception of conventional parameters, only those constituents detected in one or more samples are summarized.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles)

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

**ITEM 3
PLANT AREA
EAST STREET AREA 2-NORTH
(GEC140)
JULY 2006**

a. Activities Undertaken/Completed

- Continued site restoration and general housekeeping activities at former Buildings 1, 2, 3, and 3B, and associated annexes (Buildings 1A and 100 Annex).
- Provided verbal notification to EPA on July 6, 2006, of an exceedance of the PCB notification and action levels at one ambient air monitoring station during a June 20-21, 2006 air sampling event associated with the Buildings 1, 1A, 2, 3, 3B, and 100 Annex Demolition and Site Restoration Program, and provided preliminary data tables from that event to EPA by e-mail on July 7, 2006.
- Conducted an additional round of air monitoring for PCBs at the monitoring stations associated with the Buildings 1, 1A, 2, 3, 3B, and 100 Annex Demolition and Site Restoration Program (stations W3, M2, M6, and M6-CO, as well as a background station) on July 8-9, 2006, as identified in Table 3-1.
- Concurrently with the above sampling event, conducted a second round of pre-demolition baseline air monitoring for PCBs in support of future demolition program for Buildings 7, 17, 17C, and 19 (at stations MC3A, M7, M2A, and a background station) on July 8-9, 2006, as identified in Table 3-1.
- Collected and tankered approximately 30,000 gallons of water from Building 9 to Building 64G for treatment.
- Collected and tankered approximately 4,000 gallons of water from the Buildings 1, 2, and 3 demolition project to Building 64G for treatment.
- Conducted drum sampling at Building 78 of oil drained from equipment in Building 17C, as identified in Table 3-1.

b. Sampling/Test Results Received

See attached tables.

c. Work Plans/Reports/Documents Submitted

- Submitted letter to EPA regarding the June 28, 2006 notification of ambient air PCB results exceeding notification level during June 18-19, 2006 pre-demolition baseline air monitoring associated with the future demolition program for Buildings 7, 17, 17C, and 19 (July 6, 2006).

**ITEM 3
(cont'd)
PLANT AREA
EAST STREET AREA 2-NORTH
(GEC140)
JULY 2006**

c. Work Plans/Reports/Documents Submitted (cont'd)

- Notified EPA by e-mail of intent to conduct additional air monitoring for PCBs on July 8-9, 2006 (July 7, 2006).
- Submitted the preliminary analytical data associated with the July 8-9, 2006 PCB air sampling event to EPA via e-mail (July 17, 2006).
- Submitted addendum to revised Pre-Excavation Notification letter to EPA regarding several anticipated utility-related excavations within East Street Area 2-North, addressing EPA's verbal comments received on June 26, 2006 (July 7, 2006).
- Submitted final disposition documentation, pursuant to the GE-EPA Consent Agreement and Order under the Toxic Substances Control Act, for select items removed from Buildings 1, 2, and 3 (and its Annex) (July 18, 2006).
- Submitted letter to EPA providing a written follow-up to an earlier verbal notification to EPA regarding pre-demolition sampling of oil from equipment in Buildings 7, 17, 17C, and 19 (July 28, 2006).

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

- Complete site restoration activities at former Buildings 1, 2, 3, and 3B, and associated former annexes (Buildings 1A and 100 Annex).
- Initiate pre-demolition activities associated with Buildings 7, 17, 17C, and 19.
- Submit Final Removal Design/Removal Action (RD/RA) Work Plan (due to EPA by August 29, 2006).*

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

None

**TABLE 3-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**EAST STREET AREA 2 - NORTH
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Building 78 Drum Sampling	F2538-1	6/19/06	Oil	SGS	PCB	7/13/06
Building 78 Drum Sampling	F2539-1	6/19/06	Oil	SGS	PCB	7/13/06
Buildings 7, 17 & 19 Oil Sampling	17-1-10	6/26/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-11	6/26/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-12	6/26/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-13	6/26/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-14	6/26/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-15	6/26/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-16	6/26/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-17	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-18	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-19	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-20	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-21	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-22	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-23	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-24	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-25	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-26	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-27	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-5	6/26/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-6	6/26/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-7	6/26/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-8	6/26/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-1-9	6/26/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17C-1-1	6/29/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17C-1-2	6/29/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17C-1-3	7/10/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17C-1-4	7/10/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17C-1-5	7/10/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17C-1-6	7/10/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17C-1-7	7/10/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17C-1-8	7/10/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17C-2-1	6/29/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17C-2-2	6/29/06	Oil	SGS	PCB	7/19/06

**TABLE 3-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**EAST STREET AREA 2 - NORTH
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Buildings 7, 17 & 19 Oil Sampling	17-mez-10	6/29/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-mez-11	6/29/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-mez-12	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-mez-13	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-mez-14	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-mez-15	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-mez-21	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-mez-22	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-mez-23	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-mez-24	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-mez-25	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-mez-26	6/28/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-mez-7	6/29/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-mez-8	6/29/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	17-mez-9	6/29/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	19-1-10	6/26/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	19-1-13	6/22/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	19-1-9	6/22/06	Oil	SGS	PCB	7/19/06
Buildings 7, 17 & 19 Oil Sampling	F1752-1	6/28/06	Oil	SGS	PCB	7/19/06
PCB Ambient Air Sampling	Field Blank	7/08 - 7/09/06	Air	Berkshire Environmental	PCB	7/14/06
PCB Ambient Air Sampling	MC3A	7/08 - 7/09/06	Air	Berkshire Environmental	PCB	7/14/06
PCB Ambient Air Sampling	M7	7/08 - 7/09/06	Air	Berkshire Environmental	PCB	7/14/06
PCB Ambient Air Sampling	M2A	7/08 - 7/09/06	Air	Berkshire Environmental	PCB	7/14/06
PCB Ambient Air Sampling	BK3 - Background - East of Building 9B	7/08 - 7/09/06	Air	Berkshire Environmental	PCB	7/14/06
PCB Ambient Air Sampling	Field Blank	7/08 - 7/09/06	Air	Berkshire Environmental	PCB	7/14/06
PCB Ambient Air Sampling	W3	7/08 - 7/09/06	Air	Berkshire Environmental	PCB	7/14/06
PCB Ambient Air Sampling	M2	7/08 - 7/09/06	Air	Berkshire Environmental	PCB	7/14/06
PCB Ambient Air Sampling	M6	7/08 - 7/09/06	Air	Berkshire Environmental	PCB	7/14/06
PCB Ambient Air Sampling	M6-CO (colocated)	7/08 - 7/09/06	Air	Berkshire Environmental	PCB	7/14/06

TABLE 3-2
PCB DATA RECEIVED DURING JULY 2006

BUILDING 78 DRUM SAMPLING
EAST STREET AREA 2 - NORTH
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Sample ID	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
F2538-1	6/19/06	ND(0.99)	ND(0.99)	ND(0.99)	ND(0.99)	ND(0.99)	ND(0.99)	ND(0.99)	ND(0.99)
F2539-1	6/19/06	ND(0.94)	ND(0.94)	ND(0.94)	ND(0.94)	ND(0.94)	ND(0.94)	ND(0.94)	ND(0.94)

Notes:

1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of PCBs.
2. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.

**TABLE 3-3
PCB DATA RECEIVED DURING JULY 2006**

**BUILDINGS 7, 17 AND 19 OIL SAMPLING
EAST STREET AREA 2 - NORTH
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Sample ID	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248, -1254	Aroclor-1260	Total PCBs
17-1-5	6/26/2006	ND(0.50)	ND(0.50)	ND(0.50)
17-1-6	6/26/2006	ND(0.78)	ND(0.78)	ND(0.78)
17-1-7	6/26/2006	ND(0.84)	ND(0.84)	ND(0.84)
17-1-8	6/26/2006	ND(0.63)	ND(0.63)	ND(0.63)
17-1-9	6/26/2006	ND(0.88)	ND(0.88)	ND(0.88)
17-1-10	6/26/2006	ND(0.80)	ND(0.80)	ND(0.80)
17-1-11	6/26/2006	ND(0.91)	ND(0.91)	ND(0.91)
17-1-12	6/26/2006	ND(0.91)	ND(0.91)	ND(0.91)
17-1-13	6/26/2006	ND(0.94)	ND(0.94)	ND(0.94)
17-1-14	6/26/2006	ND(0.89)	ND(0.89)	ND(0.89)
17-1-15	6/26/2006	ND(0.97)	ND(0.97)	ND(0.97)
17-1-16	6/26/2006	ND(0.89)	ND(0.89)	ND(0.89)
17-1-17	6/28/2006	ND(18)	130	130
17-1-18	6/28/2006	ND(0.97)	ND(0.97)	ND(0.97)
17-1-19	6/28/2006	ND(0.98)	ND(0.98)	ND(0.98)
17-1-20	6/28/2006	ND(1.0)	ND(1.0)	ND(1.0)
17-1-21	6/28/2006	ND(0.98)	ND(0.98)	ND(0.98)
17-1-22	6/28/2006	ND(0.99)	ND(0.99)	ND(0.99)
17-1-23	6/28/2006	ND(0.81)	5.5	5.5
17-1-24	6/28/2006	ND(0.98)	ND(0.98)	ND(0.98)
17-1-25	6/28/2006	ND(0.98)	ND(0.98)	ND(0.98)
17-1-26	6/28/2006	ND(0.75)	ND(0.75)	ND(0.75)
17-1-27	6/28/2006	ND(0.83)	ND(0.83)	ND(0.83)
17C-1-1	6/29/2006	ND(0.98)	1.8	1.8
17C-1-2	6/29/2006	ND(0.98)	2.0	2.0
17C-1-3	7/10/2006	ND(0.95)	2.8	2.8
17C-1-4	7/10/2006	ND(47)	460	460
17C-1-5	7/10/2006	ND(0.96)	ND(0.96)	ND(0.96)
17C-1-6	7/10/2006	ND(0.86)	ND(0.86)	ND(0.86)
17C-1-7	7/10/2006	ND(0.88)	ND(0.88)	ND(0.88)
17C-1-8	7/10/2006	ND(0.93)	ND(0.93)	ND(0.93)
17C-2-1	6/29/2006	ND(0.95)	ND(0.95)	ND(0.95)
17C-2-2	6/29/2006	ND(0.97)	ND(0.97)	ND(0.97)
17-mez-7	6/29/2006	ND(0.94)	ND(0.94)	ND(0.94)
17-mez-8	6/29/2006	ND(0.92)	ND(0.92)	ND(0.92)
17-mez-9	6/29/2006	ND(0.96)	ND(0.96)	ND(0.96)
17-mez-10	6/29/2006	ND(0.95)	ND(0.95)	ND(0.95)
17-mez-11	6/29/2006	ND(0.94)	ND(0.94)	ND(0.94)
17-mez-12	6/28/2006	ND(0.99)	ND(0.99)	ND(0.99)
17-mez-13	6/28/2006	ND(1.0)	ND(1.0)	ND(1.0)
17-mez-14	6/28/2006	ND(0.99)	ND(0.99)	ND(0.99)
17-mez-15	6/28/2006	ND(4.8)	35	35
17-mez-21	6/28/2006	ND(0.95)	ND(0.95)	ND(0.95)
17-mez-22	6/28/2006	ND(0.95)	ND(0.95)	ND(0.95)
17-mez-23	6/28/2006	ND(0.96)	ND(0.96)	ND(0.96)
17-mez-24	6/28/2006	ND(0.96)	ND(0.96)	ND(0.96)
17-mez-25	6/28/2006	ND(0.98)	ND(0.98)	ND(0.98)
17-mez-26	6/28/2006	ND(0.99)	ND(0.99)	ND(0.99)
19-1-9	6/22/2006	ND(0.86)	ND(0.86)	ND(0.86)
19-1-10	6/26/2006	ND(0.80)	ND(0.80)	ND(0.80)
19-1-13	6/22/2006	ND(0.98)	ND(0.98)	ND(0.98)
F1752-1	6/28/2006	ND(1.0)	ND(1.0)	ND(1.0)

Notes:

1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of PCBs.
2. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.

**TABLE 3-4
 AMBIENT AIR PCB DATA RECEIVED DURING JULY 2006**

**BUILDINGS 7, 17, 17C & 19 DEMOLITION ACTIVITIES
 EAST STREET AREA 2 - NORTH
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Event Period	Date Analytical Results Received by BEC, Inc.	Field Blank (µg/PUF)	MC3A (µg/m3)	M7 (µg/m3)	M2A (µg/m3)	M2A-CO (colocated) (µg/m3)	BK3 - Background - East of Building 9B (µg/m3)
7/08 - 7/09/06	7/12/06	ND (<0.10)	0.0031	0.0017	0.0162	NA ¹	0.0015
Notification Level		0.05	0.05	0.05	0.05	0.05	0.05

Notes:

ND - Non Detect

NA - Not Available

¹ The July background PCB event for the 17s Complex was run concurrently with a PCB event for Buildings 1, 1A, 2, 3, 3B, and 100 Annex Demolition and Site Restoration Program. One colocated site (M6) was used as a precision check for both projects.

- Preliminary data review was conducted based on the following data quality indicators associated with the tabulated dataset above: sampling collection time, sampling calibration check, temperature receipt, associated blanks, laboratory control samples recoveries, and surrogate recoveries.

**TABLE 3-5
 AMBIENT AIR PCB DATA RECEIVED DURING JULY 2006**

**BUILDINGS 1, 1A, 2, 3, 3B & 100 ANNEX DEMOLITION AND SITE RESTORATION PROGRAM
 EAST STREET AREA 2 - NORTH
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Event Period	Date Analytical Results Received by BEC, Inc.	Field Blank (µg/PUF)	W3 (µg/m3)	M2 (µg/m3)	M6 (µg/m3)	M6-CO (colocated) (µg/m3)	BK3 - Background - East of Building 9B (µg/m3)
07/08 - 07/09/06	07/12/06	ND (<0.10)	0.0087	0.0045	0.0162	0.0166	0.0015
Notification Level			0.05	0.05	0.05	0.05	0.05

Notes:

ND - Non-Detect

- Preliminary data review was conducted based on the following data quality indicators associated with the tabulated dataset above: sampling collection time, sampling calibration check, temperature receipt, associated blanks, laboratory control sample recoveries, and surrogate recoveries.

**ITEM 5
PLANT AREA
HILL 78 & BUILDING 71 CONSOLIDATION AREAS
(GECD210/220)
JULY 2006**

* All activities described below for this item were conducted pursuant to the Consent Decree.

a. Activities Undertaken/Completed

- Completed construction of mid-slope drainage swales at Building 71 OPCA.
- Initiated consolidation of excavated materials from Former Oxbow Areas A and C into the OPCAs (July 31, 2006).
- Completed consolidation at the OPCAs of certain building demolition materials from the 40s Complex demolition activities, materials excavated from Phase 4 floodplain properties, and materials excavated from Former Oxbow Areas J and K.
- Consolidated at the OPCAs certain building demolition materials from Former Oxbow Areas A and C, and materials from various facility-related activities.
- Conducted air monitoring for particulates and PCBs, as identified in Table 5-1.
- Continued transfer of leachate from Building 71 OPCA to Building 64G for treatment. The total amount transferred in July 2006 was 111,000 gallons (see Table 5-4).
- Encountered a blockage within the storm sewer located beneath the Hill 78 OPCA during pipe inspection and cleaning activities.

b. Sampling/Test Results Received

See attached tables.

c. Work Plans/Reports/Documents Submitted

None

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

- Conduct semi-annual inspection of capped portion of Building 71 OPCA and submit report thereon.
- Complete consolidation of materials from Former Oxbow Areas A and C into the OPCAs.

**ITEM 5
(cont'd)
PLANT AREA
HILL 78 & BUILDING 71 CONSOLIDATION AREAS
(GECD210/220)
JULY 2006**

d. Upcoming Scheduled and Anticipated Activities (next six weeks) (cont'd)

- Consolidate excavated materials from the Lyman Street Area into the Building 71 OPCA, if available.
- Submit to EPA addendum to the Phase II final OPCA cover construction plan that was submitted in May 2006.
- Initiate Phase II final cover construction for Building 71 OPCA.
- Prepare and submit plan (for EPA approval) to remove the blockage within the storm sewer line located beneath the Hill 78 OPCA. Following EPA approval, mobilize Contractor to site and remove blockage. Conduct additional video inspection of the storm and sanitary sewer lines beneath the Hill 78 OPCA after the lines have been cleared.

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

None

**TABLE 5-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**HILL 78/BUILDING 71 ON PLANT CONSOLIDATION AREAS
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Ambient Air Particulate Matter Sampling	North of OPCAs	7/5/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/5/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/5/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/5/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	West of OPCAs	7/5/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Background Location	7/5/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	North of OPCAs	7/6/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/6/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/6/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/6/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	West of OPCAs	7/6/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Background Location	7/6/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	North of OPCAs	7/7/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/7/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/7/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/7/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	West of OPCAs	7/7/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Background Location	7/7/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	North of OPCAs	7/10/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/10/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/10/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/10/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	West of OPCAs	7/10/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Background Location	7/10/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	North of OPCAs	7/11/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/11/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/11/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/11/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	West of OPCAs	7/11/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Background Location	7/11/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	North of OPCAs	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	West of OPCAs	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Background Location	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	North of OPCAs	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/17/06

**TABLE 5-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**HILL 78/BUILDING 71 ON PLANT CONSOLIDATION AREAS
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	West of OPCAs	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Background Location	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	North of OPCAs	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	West of OPCAs	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Background Location	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	North of OPCAs	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	West of OPCAs	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Background Location	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	North of OPCAs	7/18/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/18/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/18/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/18/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	West of OPCAs	7/18/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Background Location	7/18/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	North of OPCAs	7/19/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/19/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/19/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/19/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	West of OPCAs	7/19/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Background Location	7/19/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	North of OPCAs	7/20/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/20/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/20/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/20/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	West of OPCAs	7/20/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Background Location	7/20/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	North of OPCAs	7/21/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/21/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/21/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/21/06	Air	Berkshire Environmental	Particulate Matter	7/24/06

**TABLE 5-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**HILL 78/BUILDING 71 ON PLANT CONSOLIDATION AREAS
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Ambient Air Particulate Matter Sampling	West of OPCAs	7/21/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Background Location	7/21/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	North of OPCAs	7/24/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/24/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/24/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/24/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	West of OPCAs	7/24/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Background Location	7/24/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	North of OPCAs	7/25/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/25/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/25/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/25/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	West of OPCAs	7/25/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Background Location	7/25/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	North of OPCAs	7/26/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/26/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/26/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/26/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	West of OPCAs	7/26/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Background Location	7/26/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	North of OPCAs	7/27/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/27/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/27/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/27/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	West of OPCAs	7/27/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Background Location	7/27/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	North of OPCAs	7/28/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/28/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/28/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/28/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	West of OPCAs	7/28/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	Background Location	7/28/06	Air	Berkshire Environmental	Particulate Matter	7/31/06
Ambient Air Particulate Matter Sampling	North of OPCAs	7/31/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	7/31/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	7/31/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	7/31/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	West of OPCAs	7/31/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	Background Location	7/31/06	Air	Berkshire Environmental	Particulate Matter	8/1/06

**TABLE 5-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**HILL 78/BUILDING 71 ON PLANT CONSOLIDATION AREAS
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
PCB Ambient Air Sampling	Field Blank	6/20 - 6/21/06	Air	Berkshire Environmental	PCB	7/10/06
PCB Ambient Air Sampling	Northwest of OPCAs	6/20 - 6/21/06	Air	Berkshire Environmental	PCB	7/10/06
PCB Ambient Air Sampling	West of OPCAs	6/20 - 6/21/06	Air	Berkshire Environmental	PCB	7/10/06
PCB Ambient Air Sampling	West of OPCAs colocated	6/20 - 6/21/06	Air	Berkshire Environmental	PCB	7/10/06
PCB Ambient Air Sampling	North of OPCAs	6/20 - 6/21/06	Air	Berkshire Environmental	PCB	7/10/06
PCB Ambient Air Sampling	Southeast of OPCAs	6/20 - 6/21/06	Air	Berkshire Environmental	PCB	7/10/06
PCB Ambient Air Sampling	Pittsfield Generating (PGE)	6/20 - 6/21/06	Air	Berkshire Environmental	PCB	7/10/06
PCB Ambient Air Sampling	Background East of Building 9B	6/20 - 6/21/06	Air	Berkshire Environmental	PCB	7/10/06
PCB Ambient Air Sampling	Field Blank	6/22 - 6/23/06	Air	Berkshire Environmental	PCB	7/10/06
PCB Ambient Air Sampling	Northwest of OPCAs	6/22 - 6/23/06	Air	Berkshire Environmental	PCB	7/10/06
PCB Ambient Air Sampling	West of OPCAs	6/22 - 6/23/06	Air	Berkshire Environmental	PCB	7/10/06
PCB Ambient Air Sampling	West of OPCAs colocated	6/22 - 6/23/06	Air	Berkshire Environmental	PCB	7/10/06
PCB Ambient Air Sampling	North of OPCAs	6/22 - 6/23/06	Air	Berkshire Environmental	PCB	7/10/06
PCB Ambient Air Sampling	Southeast of OPCAs	6/22 - 6/23/06	Air	Berkshire Environmental	PCB	7/10/06
PCB Ambient Air Sampling	Pittsfield Generating (PGE)	6/22 - 6/23/06	Air	Berkshire Environmental	PCB	7/10/06
PCB Ambient Air Sampling	Background East of Building 9B	6/22 - 6/23/06	Air	Berkshire Environmental	PCB	7/10/06
PCB Ambient Air Sampling	Field Blank	6/27 - 6/28/06	Air	Berkshire Environmental	PCB	7/11/06
PCB Ambient Air Sampling	Northwest of OPCAs	6/27 - 6/28/06	Air	Berkshire Environmental	PCB	7/11/06
PCB Ambient Air Sampling	West of OPCAs	6/27 - 6/28/06	Air	Berkshire Environmental	PCB	7/11/06
PCB Ambient Air Sampling	West of OPCAs colocated	6/27 - 6/28/06	Air	Berkshire Environmental	PCB	7/11/06
PCB Ambient Air Sampling	North of OPCAs	6/27 - 6/28/06	Air	Berkshire Environmental	PCB	7/11/06
PCB Ambient Air Sampling	Southeast of OPCAs	6/27 - 6/28/06	Air	Berkshire Environmental	PCB	7/11/06
PCB Ambient Air Sampling	Pittsfield Generating (PGE)	6/27 - 6/28/06	Air	Berkshire Environmental	PCB	7/11/06
PCB Ambient Air Sampling	Background East of Building 9B	6/27 - 6/28/06	Air	Berkshire Environmental	PCB	7/11/06
PCB Ambient Air Sampling	Field Blank	6/29 - 6/30/06	Air	Berkshire Environmental	PCB	7/11/06
PCB Ambient Air Sampling	Northwest of OPCAs	6/29 - 6/30/06	Air	Berkshire Environmental	PCB	7/11/06
PCB Ambient Air Sampling	West of OPCAs	6/29 - 6/30/06	Air	Berkshire Environmental	PCB	7/11/06
PCB Ambient Air Sampling	West of OPCAs colocated	6/29 - 6/30/06	Air	Berkshire Environmental	PCB	7/11/06
PCB Ambient Air Sampling	North of OPCAs	6/29 - 6/30/06	Air	Berkshire Environmental	PCB	7/11/06
PCB Ambient Air Sampling	Southeast of OPCAs	6/29 - 6/30/06	Air	Berkshire Environmental	PCB	7/11/06
PCB Ambient Air Sampling	Pittsfield Generating (PGE)	6/29 - 6/30/06	Air	Berkshire Environmental	PCB	7/11/06
PCB Ambient Air Sampling	Background East of Building 9B	6/29 - 6/30/06	Air	Berkshire Environmental	PCB	7/11/06
PCB Ambient Air Sampling	Field Blank	7/6 - 7/7/06	Air	Berkshire Environmental	PCB	7/14/06
PCB Ambient Air Sampling	Northwest of OPCAs	7/6 - 7/7/06	Air	Berkshire Environmental	PCB	7/14/06
PCB Ambient Air Sampling	West of OPCAs	7/6 - 7/7/06	Air	Berkshire Environmental	PCB	7/14/06
PCB Ambient Air Sampling	West of OPCAs colocated	7/6 - 7/7/06	Air	Berkshire Environmental	PCB	7/14/06
PCB Ambient Air Sampling	North of OPCAs	7/6 - 7/7/06	Air	Berkshire Environmental	PCB	7/14/06
PCB Ambient Air Sampling	Southeast of OPCAs	7/6 - 7/7/06	Air	Berkshire Environmental	PCB	7/14/06

**TABLE 5-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**HILL 78/BUILDING 71 ON PLANT CONSOLIDATION AREAS
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
PCB Ambient Air Sampling	Pittsfield Generating (PGE)	7/6 - 7/7/06	Air	Berkshire Environmental	PCB	7/14/06
PCB Ambient Air Sampling	Background East of Building 9B	7/6 - 7/7/06	Air	Berkshire Environmental	PCB	7/14/06
PCB Ambient Air Sampling	Field Blank	7/11 - 7/12/06	Air	Berkshire Environmental	PCB	7/19/06
PCB Ambient Air Sampling	Northwest of OPCAs	7/11 - 7/12/06	Air	Berkshire Environmental	PCB	7/19/06
PCB Ambient Air Sampling	West of OPCAs	7/11 - 7/12/06	Air	Berkshire Environmental	PCB	7/19/06
PCB Ambient Air Sampling	West of OPCAs collocated	7/11 - 7/12/06	Air	Berkshire Environmental	PCB	7/19/06
PCB Ambient Air Sampling	North of OPCAs	7/11 - 7/12/06	Air	Berkshire Environmental	PCB	7/19/06
PCB Ambient Air Sampling	Southeast of OPCAs	7/11 - 7/12/06	Air	Berkshire Environmental	PCB	7/19/06
PCB Ambient Air Sampling	Pittsfield Generating (PGE)	7/11 - 7/12/06	Air	Berkshire Environmental	PCB	7/19/06
PCB Ambient Air Sampling	Background East of Building 9B	7/11 - 7/12/06	Air	Berkshire Environmental	PCB	7/19/06
PCB Ambient Air Sampling	Field Blank	7/13 - 7/14/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	Northwest of OPCAs	7/13 - 7/14/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	West of OPCAs	7/13 - 7/14/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	West of OPCAs collocated	7/13 - 7/14/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	North of OPCAs	7/13 - 7/14/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	Southeast of OPCAs	7/13 - 7/14/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	Pittsfield Generating (PGE)	7/13 - 7/14/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	Background East of Building 9B	7/13 - 7/14/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	Field Blank	7/18 - 7/19/06	Air	Berkshire Environmental	PCB	7/24/06
PCB Ambient Air Sampling	Northwest of OPCAs	7/18 - 7/19/06	Air	Berkshire Environmental	PCB	7/24/06
PCB Ambient Air Sampling	West of OPCAs	7/18 - 7/19/06	Air	Berkshire Environmental	PCB	7/24/06
PCB Ambient Air Sampling	West of OPCAs collocated	7/18 - 7/19/06	Air	Berkshire Environmental	PCB	7/24/06
PCB Ambient Air Sampling	North of OPCAs	7/18 - 7/19/06	Air	Berkshire Environmental	PCB	7/24/06
PCB Ambient Air Sampling	Southeast of OPCAs	7/18 - 7/19/06	Air	Berkshire Environmental	PCB	7/24/06
PCB Ambient Air Sampling	Pittsfield Generating (PGE)	7/18 - 7/19/06	Air	Berkshire Environmental	PCB	7/24/06
PCB Ambient Air Sampling	Background East of Building 9B	7/18 - 7/19/06	Air	Berkshire Environmental	PCB	7/24/06
PCB Ambient Air Sampling	Field Blank	7/20 - 7/21/06	Air	Berkshire Environmental	PCB	8/1/06
PCB Ambient Air Sampling	Northwest of OPCAs	7/20 - 7/21/06	Air	Berkshire Environmental	PCB	8/1/06
PCB Ambient Air Sampling	West of OPCAs	7/20 - 7/21/06	Air	Berkshire Environmental	PCB	8/1/06
PCB Ambient Air Sampling	West of OPCAs collocated	7/20 - 7/21/06	Air	Berkshire Environmental	PCB	8/1/06
PCB Ambient Air Sampling	North of OPCAs	7/20 - 7/21/06	Air	Berkshire Environmental	PCB	8/1/06
PCB Ambient Air Sampling	Southeast of OPCAs	7/20 - 7/21/06	Air	Berkshire Environmental	PCB	8/1/06
PCB Ambient Air Sampling	Pittsfield Generating (PGE)	7/20 - 7/21/06	Air	Berkshire Environmental	PCB	8/1/06
PCB Ambient Air Sampling	Background East of Building 9B	7/20 - 7/21/06	Air	Berkshire Environmental	PCB	8/1/06

TABLE 5-2
SUMMARY OF 2006 PCB AMBIENT AIR SAMPLING RESULTS
HILL 78/BUILDING 71 ON PLANT CONSOLIDATION AREAS
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS
(all results are $\mu\text{g}/\text{m}^3$)

Date	Northwest of OPCAs	Northwest of OPCAs collocated	West of OPCAs	West of OPCAs collocated	North of OPCAs	Southeast of OPCAs	Pittsfield Generating (PGE)	Background Sample Location - East of Building 9B	Data Validated?
01/10/06 - 01/11/06	0.0005	ND	0.0020	-----	0.0005	ND	0.0005	0.0003	No
02/07/06 - 02/08/06	ND	0.0002 J	ND	-----	ND	0.0003	0.0003	0.0002 J	No
03/07/06 - 03/08/06	ND	ND	ND	-----	ND	0.0006	0.0006	0.0008	No
04/06/06 - 04/07/06	0.0006	-----	0.0004	0.0005	0.0005	0.0009	0.0014	0.0005	No
04/18/06 - 04/19/06	0.0010	-----	0.0011	0.0009	0.0040	0.0019	0.0148	0.0031	No
04/25/06 - 04/26/06	0.0009	-----	0.0010	0.0009	0.0007	0.0013	0.0019	0.0007	No
04/27/06 - 04/28/06	0.0006	-----	0.0006	0.0007	0.0004	0.0009	0.0020	0.0005	No
05/02/06 - 05/03/06 ¹	NA	-----	NA	NA	NA	NA	NA	NA	NA
05/04/06 - 05/05/06	0.0019	-----	0.0037	0.0030	0.0017	0.0041	0.0069	0.0026	No
05/09/06 - 05/10/06	0.0003	-----	0.0004	0.0004	ND	0.0005	0.0004	0.0050	No
05/11/06 - 05/12/06	0.0014	-----	0.0024	0.0026	0.0010	0.0005	0.0006	0.0011	No
05/16/06 - 05/17/06	0.0004	-----	0.0007	0.0011	0.0006	0.0009	0.0014	0.0009	No
05/18/06 - 05/19/06	0.0018	-----	0.0015	0.0021	0.0017	0.0015	0.0017	0.0019	No
05/23/06 - 05/24/06	0.0003	-----	ND	0.0004	ND	0.0011	0.0017	0.0005	No
05/25/06 - 05/26/06	0.0032 ²	-----	0.0018	0.0056	0.0041	0.0015	0.0044	0.0010	No
05/31/06 - 06/01/06	0.0069	-----	0.0056	0.0060	0.0069	0.0030	0.0062	0.0024	No
06/01/06 - 06/02/06	0.0031	-----	0.0028	0.0043	0.0034	0.0038	0.0087	0.0030	No
06/06/06 - 06/07/06	0.0006	-----	ND	ND	ND	ND	ND	0.0018	No
06/12/06 - 06/13/06	0.0017	-----	0.0046	0.0037	0.0041	0.0013	0.0388	0.0009	No
06/13/06 - 06/14/06	0.0010	-----	0.0010	0.0007	0.0009	0.0022	0.0061	0.0014	No
06/20/06 - 06/21/06	0.0027	-----	0.0020	0.0030	0.0031	0.0024	0.0047	0.0012	No
06/22/06 - 06/23/06	0.0028	-----	0.0029	0.0027	0.0036	0.0022	0.0032	0.0025	No
06/27/06 - 06/28/06	0.0036 J	-----	0.0021 J	0.0019 J	0.0026 J	0.0006 J	0.0018 J	0.0019 J	PDR ³
06/29/06 - 06/30/06	0.0013 J	-----	0.0014 J	0.0010 J	0.0020 J	0.0006 J	0.0021 J	0.0036 J	PDR ³
07/06/06 - 07/07/06	0.0008 J	-----	0.0003 J	0.0007 J	0.0006 J	0.0005 J	0.0029 J	0.0004 J	PDR ³
07/11/06 - 07/12/06	0.0024	-----	0.0018	0.0018	0.0016	0.0011	0.0045	0.0017	PDR ³
07/13/06 - 07/14/06	0.0008 J	-----	0.0014 J	0.0010 J	0.0007 J	0.0008 J	0.0023 J	0.0012 J	PDR ³
07/18/06 - 07/19/06	0.0018 J	-----	0.0026 J	0.0021 J	0.0020 J	0.0033 J	0.0089 J	0.0022 J	PDR ³
07/20/06 - 07/21/06	0.0033	-----	0.0024	0.0031	0.0010	0.0008	0.0025	0.0021	PDR ³
Exceedances of Notification Level (0.05 $\mu\text{g}/\text{m}^3$)	None	None	None	None	None	None	None	None	

(See Notes on Page 2 of 2)

TABLE 5-2
SUMMARY OF 2006 PCB AMBIENT AIR SAMPLING RESULTS
HILL 78/BUILDING 71 ON PLANT CONSOLIDATION AREAS
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS
(all results are ug/m³)

Notes:

All sampling and analytical activities performed and/or coordinated by Berkshire Environmental Consultants, Inc.

NA - Not Available

ND - Non Detect (<0.0003)

J - Sample results were qualified as estimated.

¹ No data available due to laboratory error.

² Data provided for information purposes only. Sampling period did not meet QA/QC criteria of 24 hours ± 60 minutes due to an interruption in street power.

³ Preliminary data review (PDR) was conducted based on the following data quality indicators associated with the tabulated data set above: sampling collection time, sampling calibration check, temperature receipt, associated blanks, laboratory control samples recoveries, and surrogate recoveries.

Qualification Notes:

1. Samples collected from the NW and Background locations from 02/07/06 to 02/08/06 are estimated values detected between the MDL and the PQL.
2. Samples collected from 06/27/06 to 06/28/06 were qualified as estimated due to surrogate recovery and/or laboratory control sample recovery deviations.
3. Samples collected from 06/29/06 to 06/30/06 were qualified as estimated due to surrogate recovery and/or laboratory control sample recovery deviations.
4. Samples collected from 07/06/06 to 07/07/06 were qualified as estimated due to surrogate recovery deviations.
5. All samples collected from 07/11/06 to 07/12/06 were greater than 4°C (PUF temperature was 20.2°C) upon laboratory receipt. The temperature of the temperature blank was recorded as less than 4°C. Following an investigation of the laboratory concerning the temperature receipt of PUF samples exhibiting a temperature greater than 6°C, the laboratory has discovered that the laboratory receipt technician was taking the temperature of the PUF while still wrapped in foil. The foil wrapped around the PUF caused an erroneous temperature reading from the IR thermometer. This was confirmed by 1) the temperature blank exhibiting a temperature less than 4°C and 2) the laboratory receipt technician peeled back the foil of the of PUF samples receipt on 8/1/06 and a temperature reading of less than 5°C was observed; therefore, none of the data were qualified due to the documented PUF temperature deviation.
6. Samples collected from 07/13/06 to 07/14/06 were qualified as estimated due to the laboratory not recording the temperature of the PUF upon receipt and laboratory control sample recovery deviations. The temperature of the temperature blank was recorded as less than 4°C.
7. Samples collected from 07/18/06 to 07/19/06 were qualified as estimated due to the laboratory not recording the temperature of the PUF upon receipt.
8. All samples collected from 07/20/06 to 07/21/06 were greater than 4°C (PUF temperature was 20.2°C) upon laboratory receipt. The temperature of the temperature blank was recorded as less than 4°C. Following an investigation of the laboratory concerning the temperature receipt of PUF samples exhibiting a temperature greater than 6°C, the laboratory has discovered that the laboratory receipt technician was taking the temperature of the PUF while still wrapped in foil. The foil wrapped around the PUF caused an erroneous temperature reading from the IR thermometer. This was confirmed by 1) the temperature blank exhibiting a temperature less than 4°C and 2) the laboratory receipt technician peeled back the foil of the of PUF samples receipt on 8/1/06 and a temperature reading of less than 5°C was observed; therefore, none of the data were qualified due to the documented PUF temperature deviation.

**TABLE 5-3
 AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING 2006**

**PARTICULATE AMBIENT AIR CONCENTRATIONS
 HILL 78/BUILDING 71 ON PLANT CONSOLIDATION AREAS
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Date¹	Sampler Location	Average Site Concentration (mg/m³)	Background Site Concentration (mg/m³)	Average Period (Hours:Min)	Predominant Wind Direction
1/10/06	North of OPCAs	0.016*	0.010*	10:30	WNW
	Pittsfield Generating Co.	0.023		10:30	
	Southeast of OPCAs	0.017		10:30	
	Northwest of OPCAs	0.023*		10:30	
	West of OPCAs	0.016*		10:30	
2/7/06	North of OPCAs	0.006*	0.005*	10:30	WNW
	Pittsfield Generating Co.	NA ²		NA ²	
	Southeast of OPCAs	0.046 ³		13:45 ⁴	
	Northwest of OPCAs	0.012*		10:15	
	West of OPCAs	0.008*		11:00	
4/17/06	North of OPCAs	0.003*	0.004*	9:45	NNW
	Pittsfield Generating Co.	0.005*		10:15	
	Southeast of OPCAs	0.004*		10:00	
	Northwest of OPCAs	0.002*		10:30	
	West of OPCAs	0.003*		10:30	
4/18/06	North of OPCAs	0.003*	0.003*	9:15 ⁵	NNW
	Pittsfield Generating Co.	0.003*		10:45	
	Southeast of OPCAs	0.020*		10:45	
	Northwest of OPCAs	0.001*		10:30	
	West of OPCAs	0.003*		10:45	
4/19/06	North of OPCAs	0.001*	0.003*	6:15 ⁵	NNW
	Pittsfield Generating Co.	0.004*		10:45	
	Southeast of OPCAs	0.005*		10:45	
	Northwest of OPCAs	0.001*		11:00	
	West of OPCAs	0.004*		11:00	
4/20/06	North of OPCAs	0.004*	0.005*	11:30	WNW, NNW
	Pittsfield Generating Co.	0.008*		12:00	
	Southeast of OPCAs	0.006*		11:30	
	Northwest of OPCAs	0.003*		11:30	
	West of OPCAs	0.006*		11:30	
4/21/06	North of OPCAs	0.004*	0.007*	10:30	Variable
	Pittsfield Generating Co.	0.010*		10:45	
	Southeast of OPCAs	0.008*		10:30	
	Northwest of OPCAs	0.004*		10:30	
	West of OPCAs	0.006*		10:30	
4/24/06	North of OPCAs	0.006*	0.007*	10:45	Calm
	Pittsfield Generating Co.	0.008*		10:45	
	Southeast of OPCAs	0.011*		10:45	
	Northwest of OPCAs	0.005*		10:45	
	West of OPCAs	0.007*		10:45	
4/25/06	North of OPCAs	0.015*	0.018*	10:45	WNW
	Pittsfield Generating Co.	0.025*		10:30	
	Southeast of OPCAs	0.022*		10:30	
	Northwest of OPCAs	0.013*		10:45	
	West of OPCAs	0.019*		10:45	
4/26/06	North of OPCAs	0.003*	0.005*	11:00	SSW
	Pittsfield Generating Co.	0.005*		10:45	
	Southeast of OPCAs	0.004*		10:45	
	Northwest of OPCAs	0.002*		11:00	
	West of OPCAs	0.004*		11:00	

**TABLE 5-3
 AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING 2006**

**PARTICULATE AMBIENT AIR CONCENTRATIONS
 HILL 78/BUILDING 71 ON PLANT CONSOLIDATION AREAS
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Date¹	Sampler Location	Average Site Concentration (mg/m³)	Background Site Concentration (mg/m³)	Average Period (Hours:Min)	Predominant Wind Direction
4/27/06	North of OPCAs	0.009*	0.013*	10:30	WNW
	Pittsfield Generating Co.	0.014*		10:30	
	Southeast of OPCAs	0.014*		10:30	
	Northwest of OPCAs	0.007*		10:30	
	West of OPCAs	0.012*		10:45	
4/28/06	North of OPCAs	0.003*	0.005*	10:45	NNW
	Pittsfield Generating Co.	0.006*		10:30	
	Southeast of OPCAs	0.006*		10:45	
	Northwest of OPCAs	0.003*		10:45	
	West of OPCAs	0.005*		10:45	
5/1/06	North of OPCAs	0.006*	0.009*	10:30	ENE
	Pittsfield Generating Co.	0.009*		10:30	
	Southeast of OPCAs	0.010*		10:30	
	Northwest of OPCAs	0.005*		10:30	
	West of OPCAs	0.010*		10:30	
5/2/06	North of OPCAs	0.007*	0.011*	11:00	NNW, NNE
	Pittsfield Generating Co.	0.010*		11:00	
	Southeast of OPCAs	0.014*		11:00	
	Northwest of OPCAs	0.005*		11:00	
	West of OPCAs	0.009*		11:00	
5/3/06	North of OPCAs	0.001*	0.002*	10:00	NNW
	Pittsfield Generating Co.	0.002*		10:15	
	Southeast of OPCAs	0.001*		5:30 ⁵	
	Northwest of OPCAs	0.001*		10:15	
	West of OPCAs	0.002*		10:30	
5/4/06	North of OPCAs	0.003*	0.006*	11:00	WNW
	Pittsfield Generating Co.	0.011*		11:00	
	Southeast of OPCAs	0.004*		11:00	
	Northwest of OPCAs	0.001*		11:30	
	West of OPCAs	0.006*		11:30	
5/5/06	North of OPCAs	0.004*	0.007*	10:30	WNW
	Pittsfield Generating Co.	0.007*		10:30	
	Southeast of OPCAs	0.005*		10:30	
	Northwest of OPCAs	0.005*		10:30	
	West of OPCAs	0.006*		10:30	
5/8/06	North of OPCAs	0.006*	0.010*	10:45	Variable
	Pittsfield Generating Co.	0.010*		10:45	
	Southeast of OPCAs	0.007*		10:45	
	Northwest of OPCAs	0.007*		10:45	
	West of OPCAs	0.009*		10:45	
5/9/06	North of OPCAs	0.005*	0.013*	11:45	NNE
	Pittsfield Generating Co.	0.009*		11:45	
	Southeast of OPCAs	0.008*		11:45	
	Northwest of OPCAs	0.005*		11:45	
	West of OPCAs	0.009*		11:45	
5/10/06	North of OPCAs	0.004*	0.008*	10:45	ENE
	Pittsfield Generating Co.	0.009*		10:45	
	Southeast of OPCAs	0.005*		10:45	
	Northwest of OPCAs	0.004*		10:45	
	West of OPCAs	0.009*		10:45	

**TABLE 5-3
 AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING 2006**

**PARTICULATE AMBIENT AIR CONCENTRATIONS
 HILL 78/BUILDING 71 ON PLANT CONSOLIDATION AREAS
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Date ¹	Sampler Location	Average Site Concentration (mg/m ³)	Background Site Concentration (mg/m ³)	Average Period (Hours:Min)	Predominant Wind Direction
5/11/06	North of OPCAs	0.002*	0.006*	11:15	Variable
	Pittsfield Generating Co.	0.007*		11:15	
	Southeast of OPCAs	0.004*		11:15	
	Northwest of OPCAs	0.002*		11:15	
	West of OPCAs	0.007*		11:15	
5/12/06	North of OPCAs	0.006*	0.008*	11:45	Variable
	Pittsfield Generating Co.	0.001*		11:45	
	Southeast of OPCAs	0.004*		11:45	
	Northwest of OPCAs	0.010*		12:00	
	West of OPCAs	0.007*		12:00	
5/15/06	North of OPCAs	0.002*	0.002*	10:45	Variable
	Pittsfield Generating Co.	0.003*		9:30 ⁵	
	Southeast of OPCAs	0.001*		11:15	
	Northwest of OPCAs	0.001*		11:00	
	West of OPCAs	0.002*		11:15	
5/16/06	North of OPCAs	0.007*	0.008*	11:30	W
	Pittsfield Generating Co.	0.008*		11:00	
	Southeast of OPCAs	0.007*		11:00	
	Northwest of OPCAs	0.005*		10:15	
	West of OPCAs	0.005*		11:15	
5/17/06	North of OPCAs	0.016*	0.015*	11:15	SSW
	Pittsfield Generating Co.	0.025*		11:15	
	Southeast of OPCAs	0.014*		11:15	
	Northwest of OPCAs	0.013*		11:15	
	West of OPCAs	0.011*		11:15	
5/18/06	North of OPCAs	0.022*	0.024*	11:00	SSW
	Pittsfield Generating Co.	0.029*		10:45	
	Southeast of OPCAs	0.023*		11:00	
	Northwest of OPCAs	0.021*		11:15	
	West of OPCAs	0.018*		11:30	
5/19/06	North of OPCAs	0.015*	0.022*	10:45	WSW
	Pittsfield Generating Co.	0.019*		10:00	
	Southeast of OPCAs	0.014*		10:45	
	Northwest of OPCAs	0.016*		10:45	
	West of OPCAs	0.014*		10:45	
5/22/06	North of OPCAs	0.001*	0.002*	8:15 ⁶	WNW
	Pittsfield Generating Co.	0.014*		11:15	
	Southeast of OPCAs	0.002*		11:15	
	Northwest of OPCAs	0.001*		11:15	
	West of OPCAs	0.001*		11:15	
5/23/06	North of OPCAs	0.005*	0.008*	11:45	WNW
	Pittsfield Generating Co.	0.005*		11:30	
	Southeast of OPCAs	0.005*		11:45	
	Northwest of OPCAs	0.006*		11:45	
	West of OPCAs	0.002*		12:00	
5/24/06	North of OPCAs	0.004*	0.006*	11:30	WNW
	Pittsfield Generating Co.	0.006*		11:30	
	Southeast of OPCAs	0.004*		11:30	
	Northwest of OPCAs	0.004*		11:30	
	West of OPCAs	0.004*		11:30	

**TABLE 5-3
 AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING 2006**

**PARTICULATE AMBIENT AIR CONCENTRATIONS
 HILL 78/BUILDING 71 ON PLANT CONSOLIDATION AREAS
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Date¹	Sampler Location	Average Site Concentration (mg/m³)	Background Site Concentration (mg/m³)	Average Period (Hours:Min)	Predominant Wind Direction
5/25/06	North of OPCAs	0.014*	0.014*	10:15	SSW
	Pittsfield Generating Co.	0.021*		10:00	
	Southeast of OPCAs	0.016*		10:15	
	Northwest of OPCAs	0.015*		10:30	
	West of OPCAs	0.011*		10:45	
5/26/06	North of OPCAs	0.028*	0.030*	10:45	Calm
	Pittsfield Generating Co.	0.035*		11:30	
	Southeast of OPCAs	0.028*		11:30	
	Northwest of OPCAs	0.031*		11:45	
	West of OPCAs	0.027*		11:15	
5/30/06	North of OPCAs	0.023*	0.023*	11:00	Variable
	Pittsfield Generating Co.	0.040*		10:30	
	Southeast of OPCAs	0.024*		9:00 ⁵	
	Northwest of OPCAs	0.026*		11:00	
	West of OPCAs	0.012*		11:00	
5/31/06	North of OPCAs	0.046*	0.053*	11:15	WSW
	Pittsfield Generating Co.	0.057*		11:00	
	Southeast of OPCAs	0.046*		11:15	
	Northwest of OPCAs	0.049*		11:30	
	West of OPCAs	0.035*		11:30	
6/1/06	North of OPCAs	0.057*	0.072*	11:15	WSW, SSW
	Pittsfield Generating Co.	0.078*		11:15	
	Southeast of OPCAs	0.059*		11:15	
	Northwest of OPCAs	0.058*		11:15	
	West of OPCAs	0.042*		11:30	
6/2/06	North of OPCAs	0.014*	0.019*	10:30	WSW
	Pittsfield Generating Co.	0.020*		10:30	
	Southeast of OPCAs	0.016*		10:30	
	Northwest of OPCAs	0.016*		10:30	
	West of OPCAs	0.013*		10:30	
6/6/06	North of OPCAs	0.008*	0.010*	11:30	Calm
	Pittsfield Generating Co.	0.012*		11:30	
	Southeast of OPCAs	0.010*		11:30	
	Northwest of OPCAs	0.008*		11:45	
	West of OPCAs	0.007*		11:45	
6/12/06	North of OPCAs	0.005*	0.005*	10:15	WNW
	Pittsfield Generating Co.	0.014*		10:45	
	Southeast of OPCAs	0.009*		10:30	
	Northwest of OPCAs	0.003*		10:30	
	West of OPCAs	0.003*		11:15	
6/13/06	North of OPCAs	0.009*	0.009*	11:00	WNW
	Pittsfield Generating Co.	0.026*		10:30	
	Southeast of OPCAs	0.011*		11:00	
	Northwest of OPCAs	0.009*		11:00	
	West of OPCAs	0.003*		10:45	
6/14/06	North of OPCAs	0.013*	0.018*	10:45	Calm
	Pittsfield Generating Co.	0.024*		10:45	
	Southeast of OPCAs	0.013*		11:00	
	Northwest of OPCAs	0.014*		11:00	
	West of OPCAs	0.011*		11:00	

**TABLE 5-3
 AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING 2006**

**PARTICULATE AMBIENT AIR CONCENTRATIONS
 HILL 78/BUILDING 71 ON PLANT CONSOLIDATION AREAS
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Date ¹	Sampler Location	Average Site Concentration (mg/m ³)	Background Site Concentration (mg/m ³)	Average Period (Hours:Min)	Predominant Wind Direction
6/15/06	North of OPCAs	0.009*	0.010*	10:30	NNW
	Pittsfield Generating Co.	0.014*		10:30	
	Southeast of OPCAs	0.010*		10:30	
	Northwest of OPCAs	0.008*		10:30	
	West of OPCAs	0.011*		10:30	
6/16/06	North of OPCAs	0.015*	0.017*	9:45 ⁵	WNW
	Pittsfield Generating Co.	0.022*		11:45	
	Southeast of OPCAs	0.017*		11:45	
	Northwest of OPCAs	0.016*		11:45	
	West of OPCAs	0.026*		6:45 ⁵	
6/19/06 ⁷	North of OPCAs	0.113*	0.136*	10:30	WSW, SSW
	Pittsfield Generating Co.	0.153*		10:45	
	Southeast of OPCAs	0.119*		10:45	
	Northwest of OPCAs	0.119*		10:30	
	West of OPCAs	0.187*		10:30	
6/20/06	North of OPCAs	0.022*	0.028*	10:30	WSW
	Pittsfield Generating Co.	0.031*		10:30	
	Southeast of OPCAs	0.018*		10:45	
	Northwest of OPCAs	0.020*		10:45	
	West of OPCAs	0.038*		10:45	
6/21/06	North of OPCAs	0.007*	0.007*	10:45	Variable
	Pittsfield Generating Co.	0.012*		10:45	
	Southeast of OPCAs	0.009*		10:45	
	Northwest of OPCAs	0.007*		10:45	
	West of OPCAs	0.013*		10:45	
6/22/06	North of OPCAs	0.029*	0.034*	11:30	SSW
	Pittsfield Generating Co.	0.041*		10:45	
	Southeast of OPCAs	0.035*		11:30	
	Northwest of OPCAs	0.030*		11:30	
	West of OPCAs	0.051*		11:30	
6/23/06	North of OPCAs	0.027*	0.037*	10:45	WNW
	Pittsfield Generating Co.	0.046*		10:45	
	Southeast of OPCAs	0.036*		10:45	
	Northwest of OPCAs	0.029*		10:45	
	West of OPCAs	0.057*		10:45	
6/26/06	North of OPCAs	0.012*	0.015*	8:45 ⁸	SSW
	Pittsfield Generating Co.	0.020*		8:30 ⁸	
	Southeast of OPCAs	0.021*		8:30 ⁸	
	Northwest of OPCAs	0.014*		8:45 ⁸	
	West of OPCAs	0.018*		8:45 ⁸	
6/27/06	North of OPCAs	0.012*	0.011*	10:45	SSW
	Pittsfield Generating Co.	0.015*		10:30	
	Southeast of OPCAs	0.012*		10:45	
	Northwest of OPCAs	0.013*		10:45	
	West of OPCAs	0.022*		11:00	
6/28/06	North of OPCAs	0.004*	0.008*	11:30	Variable
	Pittsfield Generating Co.	0.007*		10:45	
	Southeast of OPCAs	0.003*		11:30	
	Northwest of OPCAs	0.007*		11:15	
	West of OPCAs	0.011*		11:30	

**TABLE 5-3
 AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING 2006**

**PARTICULATE AMBIENT AIR CONCENTRATIONS
 HILL 78/BUILDING 71 ON PLANT CONSOLIDATION AREAS
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Date¹	Sampler Location	Average Site Concentration (mg/m³)	Background Site Concentration (mg/m³)	Average Period (Hours:Min)	Predominant Wind Direction
6/29/06	North of OPCAs	0.055*	0.057*	10:30	SSW
	Pittsfield Generating Co.	0.074*		10:00	
	Southeast of OPCAs	0.047*		11:00	
	Northwest of OPCAs	0.064*		10:30	
	West of OPCAs	0.062*		11:00	
6/30/06	North of OPCAs	0.030*	0.037*	11:00	WNW
	Pittsfield Generating Co.	0.046*		10:30	
	Southeast of OPCAs	0.046*		10:45	
	Northwest of OPCAs	0.039*		11:00	
	West of OPCAs	0.055*		10:45	
7/5/06	North of OPCAs	0.016*	0.021*	11:00	WNW
	Pittsfield Generating Co.	0.024*		11:00	
	Southeast of OPCAs	0.026*		10:45	
	Northwest of OPCAs	0.022*		10:45	
	West of OPCAs	0.032*		11:00	
7/6/06	North of OPCAs	0.002*	0.006*	11:00	WNW
	Pittsfield Generating Co.	0.007*		10:45	
	Southeast of OPCAs	0.021*		11:00	
	Northwest of OPCAs	0.006*		11:00	
	West of OPCAs	0.010*		11:15	
7/7/06	North of OPCAs	0.007*	0.008*	10:45	WNW
	Pittsfield Generating Co.	0.012*		10:45	
	Southeast of OPCAs	0.019*		10:45	
	Northwest of OPCAs	0.010*		10:45	
	West of OPCAs	0.017*		10:45	
7/10/06	North of OPCAs	0.030*	0.056*	10:45	Variable
	Pittsfield Generating Co.	0.046*		10:30	
	Southeast of OPCAs	0.044*		10:45	
	Northwest of OPCAs	0.037*		10:30	
	West of OPCAs	0.056*		10:45	
7/11/06	North of OPCAs	0.048 ⁹	0.070*	11:15	NNW, WNW
	Pittsfield Generating Co.	0.088*		10:15	
	Southeast of OPCAs	0.085*		10:30	
	Northwest of OPCAs	0.071*		10:00	
	West of OPCAs	0.049 ⁹		11:15	
7/12/06	North of OPCAs	0.026**	0.040*	11:15	Calm
	Pittsfield Generating Co.	0.066*		10:30	
	Southeast of OPCAs	0.063*		10:45	
	Northwest of OPCAs	0.054*		10:30	
	West of OPCAs	0.022**		11:15	
7/13/06	North of OPCAs	0.010**	0.007*	11:15	NNE, W
	Pittsfield Generating Co.	0.004*		11:00	
	Southeast of OPCAs	0.002*		10:30	
	Northwest of OPCAs	0.004*		11:00	
	West of OPCAs	0.013**		11:15	
7/14/06	North of OPCAs	0.011**	0.021*	11:00	WNW
	Pittsfield Generating Co.	0.030*		10:30	
	Southeast of OPCAs	0.028*		10:30	
	Northwest of OPCAs	0.026*		10:30	
	West of OPCAs	0.011**		11:00	

**TABLE 5-3
 AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING 2006**

**PARTICULATE AMBIENT AIR CONCENTRATIONS
 HILL 78/BUILDING 71 ON PLANT CONSOLIDATION AREAS
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Date ¹	Sampler Location	Average Site Concentration (mg/m ³)	Background Site Concentration (mg/m ³)	Average Period (Hours:Min)	Predominant Wind Direction
7/17/06	North of OPCAs	0.022**	0.013*	11:15	Variable
	Pittsfield Generating Co.	0.025*		10:30	
	Southeast of OPCAs	0.029*		11:00	
	Northwest of OPCAs	0.021 ⁹		10:45	
	West of OPCAs	0.018 ⁹		8:15 ¹⁰	
7/18/06	North of OPCAs	0.018**	0.024*	11:15	WNW
	Pittsfield Generating Co.	0.031*		10:15	
	Southeast of OPCAs	0.036*		11:00	
	Northwest of OPCAs	0.018**		11:15	
	West of OPCAs	0.037*		10:45	
7/19/06	North of OPCAs	0.015**	0.013*	11:15	Calm
	Pittsfield Generating Co.	0.017*		10:30	
	Southeast of OPCAs	0.019*		10:30	
	Northwest of OPCAs	0.009**		11:15	
	West of OPCAs	0.019*		10:30	
7/20/06	North of OPCAs	0.011**	0.004*	11:15	Calm
	Pittsfield Generating Co.	0.020*		11:15	
	Southeast of OPCAs	0.021*		11:15	
	Northwest of OPCAs	0.012**		11:15	
	West of OPCAs	0.019*		11:15	
7/21/06	North of OPCAs	0.018**	0.056*	11:00	Variable
	Pittsfield Generating Co.	0.052*		11:30	
	Southeast of OPCAs	0.052*		11:15	
	Northwest of OPCAs	0.018**		11:00	
	West of OPCAs	0.050*		11:30	
7/24/06	North of OPCAs	0.009**	0.009*	11:15	Variable
	Pittsfield Generating Co.	0.010*		10:30	
	Southeast of OPCAs	0.010*		10:30	
	Northwest of OPCAs	0.007**		11:15	
	West of OPCAs	0.007*		11:00	
7/25/06	North of OPCAs	0.025**	0.038*	9:45 ⁸	SSW
	Pittsfield Generating Co.	0.046*		9:15 ⁸	
	Southeast of OPCAs	0.046*		9:00 ⁸	
	Northwest of OPCAs	0.024**		9:45 ⁸	
	West of OPCAs	0.051*		9:15 ⁸	
7/26/06	North of OPCAs	0.025**	0.045*	11:15	Variable
	Pittsfield Generating Co.	0.063*		10:30	
	Southeast of OPCAs	0.062*		10:30	
	Northwest of OPCAs	0.025**		11:15	
	West of OPCAs	0.064*		10:30	
7/27/06	North of OPCAs	0.037**	0.082*	11:15	SSW
	Pittsfield Generating Co.	0.108*		10:45	
	Southeast of OPCAs	0.101*		10:45	
	Northwest of OPCAs	0.035**		11:15	
	West of OPCAs	0.113*		10:30	
7/28/06	North of OPCAs	0.026**	0.041*	9:00 ⁶	SSW
	Pittsfield Generating Co.	0.053*		10:30	
	Southeast of OPCAs	0.052*		10:30	
	Northwest of OPCAs	0.022**		11:15	
	West of OPCAs	0.060*		10:30	

**TABLE 5-3
 AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING 2006**

**PARTICULATE AMBIENT AIR CONCENTRATIONS
 HILL 78/BUILDING 71 ON PLANT CONSOLIDATION AREAS
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Date¹	Sampler Location	Average Site Concentration (mg/m³)	Background Site Concentration (mg/m³)	Average Period (Hours:Min)	Predominant Wind Direction
7/31/06	North of OPCAs	0.012*	0.015*	10:30	Variable
	Pittsfield Generating Co.	0.020*		10:30	
	Southeast of OPCAs	0.021*		11:30	
	Northwest of OPCAs	0.010**		11:15	
	West of OPCAs	0.013*		10:45	
Notification Level		0.120			
Action Level		0.150			

Notes:

NA - Not Available

Concentrations with no asterisk measured with a pDR-1000.

* Measured with a DR-2000 or DR-4000

** Measured with an EBAM.

Background monitoring station is located east of Building 9B, between Building 9B and New York Avenue.

Predominant wind direction determined using hourly wind direction data from the Pittsfield Municipal Airport Weather Station.

¹ The particulate monitors obtain real-time data. The sampling data were obtained by BEC on the sampling date.

² Sampling data invalid - interference from cooling tower.

³ Reading reflects average concentration manually recorded from the monitor at the end of the day.

⁴ Estimated logging period.

⁵ Sampling period was shortened due to instrument malfunction.

⁶ Sampling period was shortened due to a power failure.

⁷ The exceedances (bold concentrations) and overall high site values on this day are likely related to regional ambient pollutant and atmospheric conditions as reported by EPA and measured at several other sites in Pittsfield and other parts of New England. The relative difference between the background site concentration and the OPCAs site concentrations indicate that the OPCAs were not the significant contributor to these high values.

⁸ Sampling period was shortened due to mid-morning notification of monitors needed.

⁹ Represents data from a DR-4000 and an EBAM.

¹⁰ Sampling period was shortened due to relocation of DR and EBAM monitors.

TABLE 5-4
BUILDING 71 CONSOLIDATION AREA LEACHATE TRANSFER SUMMARY
PLANT AREA - HILL 78 & BUILDING 71 CONSOLIDATION AREAS
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006

Month / Year	Total Volume of Leachate Transferred (Gallons)
July 2005	127,500
August 2005	55,000
September 2005	55,000
October 2005	378,000
November 2005	162,500
December 2005	168,000
January 2006	185,000
February 2006	125,000
March 2006	70,000
April 2006	104,000
May 2006	137,000
June 2006	139,000
July 2006	111,000

Leachate is transferred from the Building 71 On-Plant Consolidation Area to Building 64G for treatment.

**ITEM 6
PLANT AREA
HILL 78 AREA - REMAINDER
(GECD160)
JULY 2006**

a. Activities Undertaken/Completed

- City of Pittsfield began to clear obstructions from the sanitary sewer line between Hill 78 and Merrill Road.
- Conducted supplemental pre-design soil sampling, as identified in Table 6-1 (see Item 6.e below).*
- Conducted drum sampling at Building 78 of acetone/hexane mixture, as well as distilled water, generated from tool and equipment decontamination, as identified in Table 6-1.
- Conducted sampling of Building 78 roof materials, as identified in Table 6-1.
- Submitted Pre-Excavation Notification letter for the relocation of Gate 25 within the Hill 78 Area-Remainder (July 11, 2006).

b. Sampling/Test Results Received

See attached tables

c. Work Plans/Reports/Documents Submitted

None

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

- Continue to coordinate with the City of Pittsfield for the clearing of the sanitary sewer line beneath the Hill 78 Area.
- Submit plan to remove blockage in the storm sewer line (see Item 6.e below) and install new piping in this area.
- Conduct additional video inspection of the storm and sanitary sewer lines within the Hill 78 Area after the lines have been cleared.
- Complete supplemental pre-design soil investigations (see Item 6.e below).*
- Prepare and submit Supplemental Data Letter Report on supplemental pre-design soil investigations (due to EPA by September 11, 2006).*

**ITEM 6
(cont'd)
PLANT AREA
HILL 78 AREA - REMAINDER
(GECD160)
JULY 2006**

e. General Progress/Unresolved Issues/Potential Schedule Impacts

- The supplemental pre-design soil investigations were completed, with the exception of certain locations where GE was unable to sample due to probe refusal. In addition, several VOC samples were rejected by the laboratory due to temperature criteria. GE will recollect these samples and continue its attempt to obtain samples from locations where refusal was encountered.*
- During cleaning of the 48-inch-diameter storm sewer line beneath Hill 78, a blockage in the pipe was encountered. After additional investigation activities, the blockage was determined to be approximately 42 feet long, located approximately 162 feet from the southern outlet of the pipe, and appeared to consist of construction and demolition debris.

f. Proposed/Approved Work Plan Modifications

None

**TABLE 6-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**HILL 78 AREA-REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Depth (feet)	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Building 78 - Decon Water Sampling from On/Off Sites	78-070606-Decon-1	7/6/06	NA	Water	SGS	PCB	7/21/06
Building 78 - Roof Sampling	78-Middle-Roof-1	7/6/06	NA	Solid	SGS	PCB	7/21/06
Building 78 - Roof Sampling	78-North-Roof-1	7/5/06	NA	Solid	SGS	PCB	7/21/06
Building 78 Sampling of Acetone/Hexane Drum from On/Off Site Tool Decon	F1692-1	7/7/06	NA	Liquid	SGS	PCB	7/21/06
Supplemental Pre-Design Investigation	RAA9-C10	6/21/06	6-8	Soil	SGS	VOC	7/31/06
Supplemental Pre-Design Investigation	RAA9-C10	6/21/06	0-1	Soil	SGS	VOC, SVOC, Inorganics, PCDD/PCDF	7/31/06
Supplemental Pre-Design Investigation	RAA9-D8	6/21/06	1-6	Soil	SGS	SVOC, Inorganics, PCDD/PCDF	7/31/06
Supplemental Pre-Design Investigation	RAA9-D8	6/21/06	1-3	Soil	SGS	VOC	7/31/06
Supplemental Pre-Design Investigation	RAA9-I19	6/16/06	4-6	Soil	SGS	VOC	7/17/06
Supplemental Pre-Design Investigation	RAA9-J20	6/16/06	10-12	Soil	SGS	VOC	7/17/06
Supplemental Pre-Design Investigation	RAA9-K19	6/16/06	8-10	Soil	SGS	VOC	7/17/06
Supplemental Pre-Design Investigation	RAA9-K20	6/16/06	3-4	Soil	SGS	VOC	7/17/06
Supplemental Pre-Design Investigation	RAA9-B12	6/21/06	1-6	Soil	SGS	PCB	7/31/06
Supplemental Pre-Design Investigation	RAA9-B12	6/21/06	6-15	Soil	SGS	PCB	7/31/06
Supplemental Pre-Design Investigation	RAA9-B12	6/21/06	0-1	Soil	SGS	PCB, VOC, SVOC, Inorganics, PCDD/PCDF	7/31/06
Supplemental Pre-Design Investigation	RAA9-C10	6/21/06	1-6	Soil	SGS	PCB	7/31/06
Supplemental Pre-Design Investigation	RAA9-C10	6/21/06	6-15	Soil	SGS	PCB, SVOC, Inorganics, PCDD/PCDF	7/31/06
Supplemental Pre-Design Investigation	RAA9-D8	6/21/06	6-15	Soil	SGS	PCB	7/31/06
Supplemental Pre-Design Investigation	RAA9-DUP-1 (RAA9-J21)	6/19/06	1-6	Soil	SGS	PCB, SVOC, Inorganics, PCDD/PCDF	7/26/06
Supplemental Pre-Design Investigation	RAA9-DUP-3 (RAA9-J18)	6/20/06	1-6	Soil	SGS	PCB	7/26/06
Supplemental Pre-Design Investigation	RAA9-DUP-4 (RAA9-E6)	6/22/06	0-1	Soil	SGS	PCB	7/28/06
Supplemental Pre-Design Investigation	RAA9-E6	6/22/06	0-1	Soil	SGS	PCB	7/28/06
Supplemental Pre-Design Investigation	RAA9-E6	6/22/06	1-6	Soil	SGS	PCB	7/28/06
Supplemental Pre-Design Investigation	RAA9-E6	6/22/06	6-15	Soil	SGS	PCB	7/28/06
Supplemental Pre-Design Investigation	RAA9-F4	6/23/06	0-1	Soil	SGS	PCB	7/14/06
Supplemental Pre-Design Investigation	RAA9-F4	6/23/06	1-6	Soil	SGS	PCB	7/14/06
Supplemental Pre-Design Investigation	RAA9-F4	6/23/06	6-15	Soil	SGS	PCB	7/14/06
Supplemental Pre-Design Investigation	RAA9-G2	6/22/06	1-6	Soil	SGS	PCB	7/28/06
Supplemental Pre-Design Investigation	RAA9-G2	6/22/06	6-15	Soil	SGS	PCB	7/28/06
Supplemental Pre-Design Investigation	RAA9-G2S	6/21/06	0-1	Soil	SGS	PCB	7/31/06
Supplemental Pre-Design Investigation	RAA9-H11W-SD	6/26/06	0-0.5	Soil	SGS	PCB, VOC, SVOC, Inorganics, PCDD/PCDF	7/28/06
Supplemental Pre-Design Investigation	RAA9-H21	6/20/06	0-1	Soil	SGS	PCB	7/26/06
Supplemental Pre-Design Investigation	RAA9-H21	6/20/06	1-6	Soil	SGS	PCB	7/26/06
Supplemental Pre-Design Investigation	RAA9-H21	6/20/06	6-15	Soil	SGS	PCB	7/26/06
Supplemental Pre-Design Investigation	RAA9-I18	6/20/06	6-15	Soil	SGS	PCB	7/26/06
Supplemental Pre-Design Investigation	RAA9-I19	6/16/06	6-15	Soil	SGS	PCB	7/17/06

**TABLE 6-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**HILL 78 AREA-REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Depth (feet)	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Supplemental Pre-Design Investigation	RAA9-I19	6/16/06	1-6	Soil	SGS	PCB, SVOC, Inorganics, PCDD/PCDF	7/17/06
Supplemental Pre-Design Investigation	RAA9-I19	6/16/06	0-1	Soil	SGS	PCB, VOC, SVOC, Inorganics, PCDD/PCDF	7/17/06
Supplemental Pre-Design Investigation	RAA9-I22	6/19/06	1-6	Soil	SGS	PCB	7/26/06
Supplemental Pre-Design Investigation	RAA9-I22	6/19/06	6-15	Soil	SGS	PCB	7/26/06
Supplemental Pre-Design Investigation	RAA9-I22	6/19/06	0-1	Soil	SGS	PCB, SVOC, Inorganics, PCDD/PCDF	7/26/06
Supplemental Pre-Design Investigation	RAA9-J12S-SW	6/13/06	NA	Water	SGS	PCB, VOC, SVOC, Metals, CN, Sulfide, PCDD/PCDF	7/17/06
Supplemental Pre-Design Investigation	RAA9-J18	6/20/06	1-6	Soil	SGS	PCB	7/26/06
Supplemental Pre-Design Investigation	RAA9-J18	6/20/06	6-15	Soil	SGS	PCB	7/26/06
Supplemental Pre-Design Investigation	RAA9-J20	6/16/06	1-6	Soil	SGS	PCB	7/17/06
Supplemental Pre-Design Investigation	RAA9-J20	6/16/06	6-15	Soil	SGS	PCB, SVOC, Inorganics, PCDD/PCDF	7/17/06
Supplemental Pre-Design Investigation	RAA9-J20	6/16/06	0-1	Soil	SGS	PCB, VOC, SVOC, Inorganics, PCDD/PCDF	7/17/06
Supplemental Pre-Design Investigation	RAA9-J21	6/19/06	0-1	Soil	SGS	PCB	7/26/06
Supplemental Pre-Design Investigation	RAA9-J21	6/19/06	6-15	Soil	SGS	PCB	7/26/06
Supplemental Pre-Design Investigation	RAA9-J21	6/19/06	1-6	Soil	SGS	PCB, SVOC, Inorganics, PCDD/PCDF	7/26/06
Supplemental Pre-Design Investigation	RAA9-J22	6/19/06	0-1	Soil	SGS	PCB	7/26/06
Supplemental Pre-Design Investigation	RAA9-J22	6/19/06	1-6	Soil	SGS	PCB	7/26/06
Supplemental Pre-Design Investigation	RAA9-J22	6/19/06	6-15	Soil	SGS	PCB, SVOC, Inorganics, PCDD/PCDF	7/26/06
Supplemental Pre-Design Investigation	RAA9-K13W-SD	6/15/06	0-0.5	Sediment	SGS	PCB	7/24/06
Supplemental Pre-Design Investigation	RAA9-K16S-SD	6/14/06	0-0.5	Sediment	SGS	PCB	7/24/06
Supplemental Pre-Design Investigation	RAA9-K17-SW	6/13/06	NA	Water	SGS	PCB, VOC, SVOC, Metals, CN, Sulfide, PCDD/PCDF	7/17/06
Supplemental Pre-Design Investigation	RAA9-K19	6/16/06	1-6	Soil	SGS	PCB	7/17/06
Supplemental Pre-Design Investigation	RAA9-K19	6/16/06	6-15	Soil	SGS	PCB, SVOC, Inorganics, PCDD/PCDF	7/17/06
Supplemental Pre-Design Investigation	RAA9-K19	6/16/06	0-1	Soil	SGS	PCB, VOC, SVOC, Inorganics, PCDD/PCDF	7/17/06
Supplemental Pre-Design Investigation	RAA9-K20	6/16/06	0-1	Soil	SGS	PCB	7/17/06
Supplemental Pre-Design Investigation	RAA9-K20	6/16/06	6-15	Soil	SGS	PCB	7/17/06
Supplemental Pre-Design Investigation	RAA9-K20	6/16/06	1-6	Soil	SGS	PCB, SVOC, Inorganics, PCDD/PCDF	7/17/06
Supplemental Pre-Design Investigation	RAA9-K4	6/23/06	6-15	Soil	SGS	PCB	7/14/06
Supplemental Pre-Design Investigation	RAA9-L13E-SW	6/13/06	NA	Water	SGS	PCB, VOC, SVOC, Metals, CN, Sulfide, PCDD/PCDF	7/17/06
Supplemental Pre-Design Investigation	RAA9-L13N-SD	6/15/06	0-0.5	Sediment	SGS	PCB, VOC, SVOC, Inorganics, PCDD/PCDF	7/24/06
Supplemental Pre-Design Investigation	RAA9-L14W-SD	6/15/06	0-0.5	Sediment	SGS	PCB, VOC, SVOC, Inorganics, PCDD/PCDF	7/24/06
Supplemental Pre-Design Investigation	RAA9-M6	6/23/06	6-15	Soil	SGS	PCB	7/14/06
Supplemental Pre-Design Investigation	RAA9-MHD2-SW	6/14/06	NA	Water	SGS	PCB, VOC, SVOC, Metals, CN, Sulfide, PCDD/PCDF	7/17/06
Supplemental Pre-Design Investigation	RAA9-N4.5	6/23/06	6-15	Soil	SGS	PCB	7/14/06
Supplemental Pre-Design Investigation	RAA9-N8	6/22/06	1-6	Soil	SGS	PCB	7/28/06
Supplemental Pre-Design Investigation	RAA9-N8	6/22/06	6-15	Soil	SGS	PCB	7/28/06
Supplemental Pre-Design Investigation	RAA9-N8	6/22/06	0-1	Soil	SGS	PCB, VOC, SVOC, Inorganics, PCDD/PCDF	7/28/06
Supplemental Pre-Design Investigation	RAA9-NO5.5	6/23/06	0-1	Soil	SGS	PCB	7/14/06
Supplemental Pre-Design Investigation	RAA9-NO5.5	6/23/06	1-6	Soil	SGS	PCB	7/14/06
Supplemental Pre-Design Investigation	RAA9-SD-DUP-1 (RAA9-L13N-SD)	6/15/06	0-0.5	Sediment	SGS	PCB, VOC, SVOC, Inorganics, PCDD/PCDF	7/24/06

**TABLE 6-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**HILL 78 AREA-REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Depth (feet)	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Supplemental Pre-Design Investigation	RAA9-SW-DUP-1 (RAA9-L13E-SW)	6/13/06	NA	Water	SGS	PCB, VOC, SVOC, Metals, CN, Sulfide, PCDD/PCDF	7/17/06
Supplemental Pre-Design Investigation	RAA9-X1	6/15/06	0-1	Soil	SGS	PCB	7/24/06
Supplemental Pre-Design Investigation	RAA9-X2	6/20/06	0-1	Soil	SGS	PCB	7/26/06
Supplemental Pre-Design Investigation	RAA9-X2	6/20/06	1-6	Soil	SGS	PCB	7/26/06
Supplemental Pre-Design Investigation	RAA9-X3	6/20/06	0-1	Soil	SGS	PCB	7/26/06
Supplemental Pre-Design Investigation	RAA9-X3	6/20/06	1-6	Soil	SGS	PCB	7/26/06
Supplemental Pre-Design Investigation	RAA9-X4	6/15/06	0-1	Soil	SGS	PCB	7/24/06

Note:

1. Field duplicate sample locations are presented in parenthesis.

**TABLE 6-2
PCB DATA RECEIVED DURING JULY 2006**

**BUILDING 78 SAMPLING OF ACETONE/HEXANE DRUM FROM ON/OFF SITE TOOL DECON
HILL 78 AREA REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Sample ID	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
F1692-1	7/7/2006	ND(0.0010)	ND(0.0015)	ND(0.0015)	ND(0.0010)	ND(0.0010)	ND(0.0015)	ND(0.0015)	ND(0.0015)

Notes:

1. Sample was collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of PCBs.
2. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.

**TABLE 6-3
PCB DATA RECEIVED DURING JULY 2006**

**BUILDING 78 ROOF SAMPLING
HILL 78 AREA REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
78-Middle-Roof-1	7/6/2006	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)	ND(0.18)
78-North-Roof-1	7/5/2006	ND(0.15)	ND(0.15)	ND(0.15)	ND(0.15)	ND(0.15)	ND(0.15)	ND(0.15)	ND(0.15)

Notes:

1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of PCBs.
2. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.

**TABLE 6-4
PCB DATA RECEIVED DURING JULY 2006**

**BUILDING 78 DECON WATER SAMPLING FROM ON/OFF SITES
HILL 78 AREA REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Sample ID	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
78-070606-Decon-1	7/6/2006	ND(0.75)	1.3	0.75	2.05

Notes:

1. Sample was collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of
2. PCBs.

ND - Analyte was not detected. The number in parenthesis is the associated detection limit.

**TABLE 6-5
APPENDIX IX+3 SURFACE WATER SAMPLE DATA RECEIVED DURING JULY 2006**

**SUPPLEMENTAL PRE-DESIGN INVESTIGATION
HILL 78 AREA REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Sample ID: Date Collected:	RAA9-J12S-SW 06/13/06	RAA9-K17-SW 06/13/06	RAA9-L13E-SW 06/13/06	RAA9-MHD2-SW 06/14/06
Volatile Organics					
None Detected		--	--	--	--
PCBs-Unfiltered					
None Detected		--	--	--	--
Semivolatile Organics					
None Detected		--	--	--	--
Furans					
2,3,7,8-TCDF		ND(0.0000000010)	ND(0.0000000015)	ND(0.0000000012) [ND(0.0000000013)]	ND(0.0000000009)
TCDFs (total)		ND(0.0000000010)	0.0000000076 J	ND(0.0000000012) [ND(0.0000000013)]	ND(0.0000000009)
1,2,3,7,8-PeCDF		ND(0.0000000049)	ND(0.0000000049)	ND(0.0000000049) [ND(0.0000000048)]	ND(0.0000000050)
2,3,4,7,8-PeCDF		ND(0.0000000049)	ND(0.0000000049)	ND(0.0000000049) [ND(0.0000000048)]	ND(0.0000000050)
PeCDFs (total)		ND(0.0000000049)	ND(0.0000000049)	ND(0.0000000049) [ND(0.0000000048)]	ND(0.0000000050)
1,2,3,4,7,8-HxCDF		ND(0.0000000049)	ND(0.0000000049)	ND(0.0000000049) [ND(0.0000000048)]	ND(0.0000000050)
1,2,3,6,7,8-HxCDF		ND(0.0000000049)	ND(0.0000000049)	ND(0.0000000049) [ND(0.0000000048)]	ND(0.0000000050)
1,2,3,7,8,9-HxCDF		ND(0.0000000049)	ND(0.0000000049)	ND(0.0000000049) [ND(0.0000000048)]	ND(0.0000000050)
2,3,4,6,7,8-HxCDF		ND(0.0000000049)	ND(0.0000000049)	ND(0.0000000049) [ND(0.0000000048)]	ND(0.0000000050)
HxCDFs (total)		ND(0.0000000049)	ND(0.0000000049)	ND(0.0000000049) [ND(0.0000000048)]	ND(0.0000000050)
1,2,3,4,6,7,8-HpCDF		ND(0.0000000049)	ND(0.0000000049)	0.000000040 J [ND(0.0000000048)]	ND(0.0000000050)
1,2,3,4,7,8,9-HpCDF		ND(0.0000000049)	ND(0.0000000049)	0.000000018 J [ND(0.0000000048)]	ND(0.0000000050)
HpCDFs (total)		ND(0.0000000049)	ND(0.0000000049)	0.000000011 [ND(0.0000000048)]	ND(0.0000000050)
OCDF		ND(0.0000000097)	ND(0.0000000098)	0.000000070 [ND(0.0000000097)]	ND(0.0000000099)
Dioxins					
2,3,7,8-TCDD		ND(0.0000000097)	ND(0.0000000098)	ND(0.0000000098) [ND(0.0000000010)]	ND(0.0000000099)
TCDDs (total)		ND(0.0000000097)	ND(0.0000000098)	ND(0.0000000098) [ND(0.0000000010)]	ND(0.0000000099)
1,2,3,7,8-PeCDD		ND(0.0000000049)	ND(0.0000000049)	ND(0.0000000049) [ND(0.0000000048)]	ND(0.0000000050)
PeCDDs (total)		ND(0.0000000049)	ND(0.0000000049)	ND(0.0000000049) [ND(0.0000000048)]	ND(0.0000000050)
1,2,3,4,7,8-HxCDD		ND(0.0000000049)	ND(0.0000000049)	ND(0.0000000049) [ND(0.0000000048)]	ND(0.0000000050)
1,2,3,6,7,8-HxCDD		ND(0.0000000049)	ND(0.0000000049)	ND(0.0000000049) [ND(0.0000000048)]	ND(0.0000000050)
1,2,3,7,8,9-HxCDD		ND(0.0000000049)	ND(0.0000000049)	ND(0.0000000049) [ND(0.0000000048)]	ND(0.0000000050)
HxCDDs (total)		ND(0.0000000049)	ND(0.0000000049)	ND(0.0000000049) [ND(0.0000000048)]	ND(0.0000000050)
1,2,3,4,6,7,8-HpCDD		ND(0.0000000049)	ND(0.0000000049)	ND(0.0000000049) [ND(0.0000000048)]	ND(0.0000000050)
HpCDDs (total)		ND(0.0000000049)	ND(0.0000000049)	ND(0.0000000049) [ND(0.0000000048)]	ND(0.0000000050)
OCDD		ND(0.0000000097)	ND(0.0000000098)	0.000000017 J [ND(0.0000000097)]	ND(0.0000000099)
Total TEQs (WHO TEFs)		0.0000000061	0.0000000061	0.0000000067 [0.0000000061]	0.0000000062

**TABLE 6-5
APPENDIX IX+3 SURFACE WATER SAMPLE DATA RECEIVED DURING JULY 2006**

**SUPPLEMENTAL PRE-DESIGN INVESTIGATION
HILL 78 AREA REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Sample ID: Date Collected:	RAA9-J12S-SW 06/13/06	RAA9-K17-SW 06/13/06	RAA9-L13E-SW 06/13/06	RAA9-MHD2-SW 06/14/06
Inorganics-Unfiltered					
Antimony		0.00480 B	ND(0.0400)	ND(0.0400) [ND(0.0400)]	ND(0.0400)
Barium		0.0458 B	0.0333 B	0.0410 B [0.0407 B]	0.0387 B
Cadmium		0.000220 B	ND(0.00500)	ND(0.00500) [0.000340 B]	ND(0.00500)
Chromium		0.00163 B	0.00360 B	ND(0.0100) [ND(0.0100)]	ND(0.0100)
Copper		0.000960 B	0.0138 B	ND(0.200) [ND(0.200)]	ND(0.200)
Lead		ND(0.0100)	0.00449 B	ND(0.0100) [ND(0.0100)]	ND(0.0100)
Mercury		ND(0.000570)	ND(0.000570)	ND(0.000570) [ND(0.000570)]	0.0000384 B
Nickel		0.00108 B	0.00279 B	0.00229 B [0.00185 B]	ND(0.0500)
Silver		0.000770 B	0.000600 B	0.000670 B [0.000610 B]	0.000630 B
Thallium		ND(0.0100)	0.00760 B	ND(0.0100) [ND(0.0100)]	ND(0.0100)
Vanadium		0.00498 B	ND(0.0500)	0.00368 B [0.00430 B]	ND(0.0500)
Zinc		0.00953 B	0.850	0.00661 B [0.00660 B]	0.00353 B

Notes:

1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of Appendix IX+3 constituents.
2. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.
3. 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.
4. With the exception of dioxin/furans, only those constituents detected in one or more samples are summarized.
5. Field duplicate sample results are presented in brackets.
6. -- Indicates that all constituents for the parameter group were not detected.

Data Qualifiers:

Organics (volatiles, semivolatiles, dioxin/furans)

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

Inorganics

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

**TABLE 6-6
PCB DATA RECEIVED DURING JULY 2006**

**SUPPLEMENTAL PRE-DESIGN INVESTIGATION
HILL 78 AREA REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Depth (Feet)	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
RAA9-B12	0-1	6/21/2006	ND(0.035)	ND(0.035)	0.030 J	0.030 J
	1-6	6/21/2006	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	6-15	6/21/2006	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA9-C10	1-6	6/21/2006	ND(0.035)	ND(0.035)	0.18	0.18
	6-15	6/21/2006	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA9-D8	6-15	6/21/2006	ND(0.034)	ND(0.034)	0.23	0.23
RAA9-E6	0-1	6/22/2006	ND(0.033) [ND(0.034)]	ND(0.033) [ND(0.034)]	ND(0.033) [ND(0.034)]	ND(0.033) [ND(0.034)]
	1-6	6/22/2006	ND(0.032)	ND(0.032)	ND(0.032)	ND(0.032)
	6-15	6/22/2006	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA9-F4	0-1	6/23/2006	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	1-6	6/23/2006	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	6-15	6/23/2006	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA9-G2	1-6	6/22/2006	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	6-15	6/22/2006	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
RAA9-G2S	0-1	6/21/2006	ND(0.035)	ND(0.035)	0.029 J	0.029 J
RAA9-H11W-SD	0-0.5	6/26/2006	ND(0.032)	0.22	0.15	0.37
RAA9-H21	0-1	6/20/2006	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
	1-6	6/20/2006	ND(0.031)	ND(0.031)	ND(0.031)	ND(0.031)
	6-15	6/20/2006	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
RAA9-I18	6-15	6/20/2006	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
RAA9-I19	0-1	6/16/2006	ND(0.67)	3.6	ND(0.67)	3.6
	1-6	6/16/2006	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
	6-15	6/16/2006	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
RAA9-I22	0-1	6/19/2006	ND(1.6)	11	5.5	16.5
	1-6	6/19/2006	ND(0.33)	2.1	ND(0.33)	2.1
	6-15	6/19/2006	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA9-J18	1-6	6/20/2006	ND(0.033) [ND(0.034)]	ND(0.033) [ND(0.034)]	ND(0.033) [ND(0.034)]	ND(0.033) [ND(0.034)]
	6-15	6/20/2006	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
RAA9-J20	0-1	6/16/2006	ND(0.034)	0.11	0.074	0.184
	1-6	6/16/2006	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
	6-15	6/16/2006	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
RAA9-J21	0-1	6/19/2006	ND(0.033)	ND(0.033)	0.072	0.072
	1-6	6/19/2006	ND(0.031) [ND(0.033)]	ND(0.031) [ND(0.033)]	ND(0.031) [ND(0.033)]	ND(0.031) [ND(0.033)]
	6-15	6/19/2006	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
RAA9-J22	0-1	6/19/2006	ND(0.031)	ND(0.031)	ND(0.031)	ND(0.031)
	1-6	6/19/2006	ND(0.031)	ND(0.031)	ND(0.031)	ND(0.031)
	6-15	6/19/2006	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
RAA9-K4	6-15	6/23/2006	ND(0.036)	0.044	ND(0.036)	0.044
RAA9-K13W-SD	0-0.5	6/15/2006	ND(0.034)	0.25	0.13	0.38
RAA9-K16S-SD	0-0.5	6/14/2006	ND(0.21)	ND(0.21)	1.2	1.2
RAA9-K19	0-1	6/16/2006	ND(0.033)	0.90	0.13	1.03
	1-6	6/16/2006	ND(0.034)	0.12	ND(0.034)	0.12
	6-15	6/16/2006	ND(0.034)	ND(0.034)	ND(0.034)	ND(0.034)
RAA9-K20	0-1	6/16/2006	ND(0.033)	0.085	0.10	0.185
	1-6	6/16/2006	ND(0.032)	ND(0.032)	ND(0.032)	ND(0.032)
	6-15	6/16/2006	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
RAA9-L13N-SD	0-0.5	6/15/2006	ND(0.037) [ND(0.038)]	ND(0.037) [ND(0.038)]	0.37 [0.29]	0.37 [0.29]
RAA9-L14W-SD	0-0.5	6/15/2006	ND(0.040)	0.39	0.58	0.97
RAA9-M6	6-15	6/23/2006	ND(0.35)	ND(0.35)	2.1	2.1
RAA9-N4.5	6-15	6/23/2006	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
RAA9-N8	0-1	6/22/2006	ND(0.036)	ND(0.036)	0.36	0.36
	1-6	6/22/2006	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
	6-15	6/22/2006	ND(0.033)	ND(0.033)	ND(0.033)	ND(0.033)
RAA9-NO5.5	0-1	6/23/2006	ND(0.034)	0.38	0.30	0.68
	1-6	6/23/2006	ND(1.7)	22	12	34
RAA9-X1	0-1	6/15/2006	ND(0.037)	ND(0.037)	0.38	0.38
RAA9-X2	0-1	6/20/2006	ND(0.20)	ND(0.20)	0.56	0.56
	1-6	6/20/2006	ND(0.037)	0.057	ND(0.037)	0.057
RAA9-X3	0-1	6/20/2006	ND(0.18)	1.4	0.90	2.3
	1-6	6/20/2006	ND(350)	960	460	1420
RAA9-X4	0-1	6/15/2006	ND(0.18)	1.4	0.84	2.24

Notes:

1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of PCBs.
2. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.
3. Field duplicate sample results are presented in brackets.

Data Qualifiers:

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

**TABLE 6-7
APPENDIX IX+3 SOIL DATA RECEIVED DURING JULY 2006**

**SUPPLEMENTAL PRE-DESIGN INVESTIGATION
HILL 78 AREA REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)**

Sample ID: Sample Depth(Feet): Date Collected:	RAA9-B12 0-1 06/21/06	RAA9-C10 0-1 06/21/06	RAA9-C10 6-8 06/21/06	RAA9-C10 6-15 06/21/06	RAA9-D8 1-3 06/21/06
Volatile Organics					
2-Butanone	ND(0.0058)	ND(0.0062)	ND(0.0058)	NA	ND(0.0054)
4-Methyl-2-pentanone	ND(0.0058)	0.0034 J	ND(0.0058)	NA	ND(0.0054)
Acetone	0.055	0.083	0.016	NA	0.0091
Carbon Disulfide	ND(0.0058)	ND(0.0062)	ND(0.0058)	NA	ND(0.0054)
Trichloroethene	ND(0.0058)	ND(0.0062)	ND(0.0058)	NA	ND(0.0054)
Semivolatile Organics					
1,2,4-Trichlorobenzene	ND(0.35)	ND(0.38)	NA	ND(0.38)	NA
Acenaphthene	ND(0.35)	ND(0.38)	NA	ND(0.38)	NA
Acenaphthylene	ND(0.35)	ND(0.38)	NA	ND(0.38)	NA
Anthracene	ND(0.35)	ND(0.38)	NA	ND(0.38)	NA
Benzo(a)anthracene	ND(0.35)	ND(0.38)	NA	ND(0.38)	NA
Benzo(a)pyrene	ND(0.35)	ND(0.38)	NA	ND(0.38)	NA
Benzo(b)fluoranthene	ND(0.35)	ND(0.38)	NA	ND(0.38)	NA
Benzo(g,h,i)perylene	ND(0.35)	ND(0.38)	NA	ND(0.38)	NA
Benzo(k)fluoranthene	ND(0.35)	ND(0.38)	NA	ND(0.38)	NA
bis(2-Ethylhexyl)phthalate	ND(0.35)	0.053 J	NA	ND(0.38)	NA
Chrysene	ND(0.35)	ND(0.38)	NA	ND(0.38)	NA
Dibenzo(a,h)anthracene	ND(0.35)	ND(0.38)	NA	ND(0.38)	NA
Dibenzofuran	ND(0.35)	ND(0.38)	NA	ND(0.38)	NA
Fluoranthene	ND(0.35)	0.072 J	NA	ND(0.38)	NA
Fluorene	ND(0.35)	ND(0.38)	NA	ND(0.38)	NA
Indeno(1,2,3-cd)pyrene	ND(0.35)	ND(0.38)	NA	ND(0.38)	NA
Naphthalene	ND(0.35)	ND(0.38)	NA	ND(0.38)	NA
Phenanthrene	ND(0.35)	0.046 J	NA	ND(0.38)	NA
Pyrene	ND(0.35)	0.099 J	NA	ND(0.38)	NA
Furans					
2,3,7,8-TCDF	0.0000069 J	0.000012	NA	0.0000042 J	NA
TCDFs (total)	0.0000086	0.0000061	NA	0.0000015	NA
1,2,3,7,8-PeCDF	ND(0.0000048)	ND(0.0000050)	NA	ND(0.0000040)	NA
2,3,4,7,8-PeCDF	0.0000026 J	0.0000015 J	NA	ND(0.0000040)	NA
PeCDFs (total)	0.0000050	0.0000023	NA	0.0000045 J	NA
1,2,3,4,7,8-HxCDF	0.0000021 J	0.0000012 J	NA	ND(0.0000040)	NA
1,2,3,6,7,8-HxCDF	0.0000011 J	ND(0.0000011)	NA	ND(0.0000040)	NA
1,2,3,7,8,9-HxCDF	ND(0.0000048)	ND(0.0000012)	NA	ND(0.0000040)	NA
2,3,4,6,7,8-HxCDF	0.0000024 J	0.0000016 J	NA	ND(0.0000040)	NA
HxCDFs (total)	0.0000034	0.0000018	NA	ND(0.0000040)	NA
1,2,3,4,6,7,8-HpCDF	0.0000053	0.0000054	NA	ND(0.0000040)	NA
1,2,3,4,7,8,9-HpCDF	ND(0.0000082)	ND(0.0000027)	NA	ND(0.0000040)	NA
HpCDFs (total)	0.000012	0.000014	NA	ND(0.0000040)	NA
OCDF	0.0000085 J	0.000013	NA	ND(0.0000079)	NA
Dioxins					
2,3,7,8-TCDD	ND(0.0000026)	ND(0.0000045)	NA	ND(0.0000016)	NA
TCDDs (total)	ND(0.0000026)	ND(0.0000045)	NA	ND(0.0000016)	NA
1,2,3,7,8-PeCDD	ND(0.0000059) X	ND(0.0000072) X	NA	ND(0.0000040)	NA
PeCDDs (total)	0.0000020 J	ND(0.0000050)	NA	ND(0.0000040)	NA
1,2,3,4,7,8-HxCDD	ND(0.0000011)	ND(0.0000052)	NA	ND(0.0000040)	NA
1,2,3,6,7,8-HxCDD	ND(0.0000011)	ND(0.0000054)	NA	ND(0.0000040)	NA
1,2,3,7,8,9-HxCDD	ND(0.0000011)	ND(0.0000053)	NA	ND(0.0000040)	NA
HxCDDs (total)	0.0000077	ND(0.0000053)	NA	ND(0.0000040)	NA
1,2,3,4,6,7,8-HpCDD	0.0000090	0.000013	NA	0.0000045 J	NA
HpCDDs (total)	0.000018	0.000025	NA	0.0000045 J	NA
OCDD	0.000065	0.00011	NA	0.0000036 J	NA
Total TEQs (WHO TEFs)	0.0000027	0.0000028	NA	0.0000058	NA

TABLE 6-7
APPENDIX IX+3 SOIL DATA RECEIVED DURING JULY 2006

SUPPLEMENTAL PRE-DESIGN INVESTIGATION
HILL 78 AREA REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: Sample Depth(Feet): Date Collected:	RAA9-B12 0-1 06/21/06	RAA9-C10 0-1 06/21/06	RAA9-C10 6-8 06/21/06	RAA9-C10 6-15 06/21/06	RAA9-D8 1-3 06/21/06
Inorganics					
Antimony	0.911 B	1.13 B	NA	0.826 B	NA
Arsenic	2.71	1.72	NA	1.55	NA
Barium	38.2 B	28.1 B	NA	17.0 B	NA
Beryllium	0.247 B	0.217 B	NA	0.166 B	NA
Cadmium	0.0327 B	0.0468 B	NA	0.0631 B	NA
Chromium	9.56	7.93	NA	6.02	NA
Cobalt	9.63	6.77	NA	4.74	NA
Copper	32.5	13.5 B	NA	9.83 B	NA
Cyanide	ND(0.210)	ND(0.210)	NA	ND(0.210)	NA
Lead	10.5	11.2	NA	5.91	NA
Mercury	0.0173 B	0.0309 B	NA	0.0212 B	NA
Nickel	17.3	13.3	NA	9.70	NA
Selenium	ND(2.33)	ND(2.46)	NA	ND(2.47)	NA
Thallium	ND(1.17)	ND(1.23)	NA	ND(1.24)	NA
Tin	ND(11.7)	ND(12.3)	NA	ND(12.4)	NA
Vanadium	12.4	10.3	NA	5.56 B	NA
Zinc	52.1	48.5	NA	34.4	NA

TABLE 6-7
APPENDIX IX+3 SOIL DATA RECEIVED DURING JULY 2006

SUPPLEMENTAL PRE-DESIGN INVESTIGATION
HILL 78 AREA REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: Sample Depth(Feet): Date Collected:	RAA9-D8 1-6 06/21/06	RAA9-H11W-SD 0-0.5 06/26/06	RAA9-I19 0-1 06/16/06	RAA9-I19 1-6 06/16/06	RAA9-I19 4-6 06/16/06
Volatile Organics					
2-Butanone	NA	ND(0.0049)	ND(0.0055)	NA	ND(0.0046)
4-Methyl-2-pentanone	NA	ND(0.0049)	ND(0.0055)	NA	ND(0.0046)
Acetone	NA	0.022	ND(0.0055)	NA	0.021
Carbon Disulfide	NA	0.011	ND(0.0055)	NA	ND(0.0046)
Trichloroethene	NA	ND(0.0049)	ND(0.0055)	NA	ND(0.0046)
Semivolatile Organics					
1,2,4-Trichlorobenzene	ND(0.33)	ND(0.32)	ND(0.34)	ND(0.35)	NA
Acenaphthene	ND(0.33)	ND(0.32)	ND(0.34)	ND(0.35)	NA
Acenaphthylene	ND(0.33)	0.18 J	ND(0.34)	ND(0.35)	NA
Anthracene	ND(0.33)	0.40	ND(0.34)	ND(0.35)	NA
Benzo(a)anthracene	ND(0.33)	1.6	ND(0.34)	ND(0.35)	NA
Benzo(a)pyrene	ND(0.33)	1.0	ND(0.34)	ND(0.35)	NA
Benzo(b)fluoranthene	ND(0.33)	0.72	ND(0.34)	ND(0.35)	NA
Benzo(g,h,i)perylene	ND(0.33)	0.74	ND(0.34)	ND(0.35)	NA
Benzo(k)fluoranthene	ND(0.33)	1.2	ND(0.34)	ND(0.35)	NA
bis(2-Ethylhexyl)phthalate	ND(0.33)	0.16 J	ND(0.34)	ND(0.35)	NA
Chrysene	ND(0.33)	1.7	ND(0.34)	ND(0.35)	NA
Dibenzo(a,h)anthracene	ND(0.33)	ND(0.32)	ND(0.34)	ND(0.35)	NA
Dibenzofuran	ND(0.33)	0.060 J	ND(0.34)	ND(0.35)	NA
Fluoranthene	ND(0.33)	3.1	ND(0.34)	ND(0.35)	NA
Fluorene	ND(0.33)	0.11 J	ND(0.34)	ND(0.35)	NA
Indeno(1,2,3-cd)pyrene	ND(0.33)	0.84	ND(0.34)	ND(0.35)	NA
Naphthalene	ND(0.33)	0.11 J	ND(0.34)	ND(0.35)	NA
Phenanthrene	ND(0.33)	2.4	ND(0.34)	ND(0.35)	NA
Pyrene	ND(0.33)	4.1	ND(0.34)	ND(0.35)	NA
Furans					
2,3,7,8-TCDF	0.0000040 J	0.0000023	0.0000018	0.0000021 J	NA
TCDFs (total)	0.0000010	0.000022	0.000031	0.0000094	NA
1,2,3,7,8-PeCDF	ND(0.0000038)	0.0000084 J	0.0000017 J	ND(0.0000046)	NA
2,3,4,7,8-PeCDF	ND(0.0000038)	0.0000032 J	0.0000021 J	ND(0.0000046)	NA
PeCDFs (total)	ND(0.0000038)	0.000063	0.000026	0.0000054 J	NA
1,2,3,4,7,8-HxCDF	ND(0.0000038)	0.0000025 J	0.0000046	ND(0.0000046)	NA
1,2,3,6,7,8-HxCDF	ND(0.0000038)	0.0000021 J	0.0000020 J	ND(0.0000046)	NA
1,2,3,7,8,9-HxCDF	ND(0.0000038)	0.0000073 IJ	0.0000013 J	ND(0.0000046)	NA
2,3,4,6,7,8-HxCDF	ND(0.0000038)	0.0000062 J	0.0000014 J	ND(0.0000046)	NA
HxCDFs (total)	ND(0.0000038)	0.000084	0.000017	0.0000052 J	NA
1,2,3,4,6,7,8-HpCDF	ND(0.0000038)	0.0000077 J	0.0000027 J	0.0000061 J	NA
1,2,3,4,7,8,9-HpCDF	ND(0.0000038)	0.0000092 J	0.0000014 J	ND(0.0000046)	NA
HpCDFs (total)	ND(0.0000038)	0.000021	0.0000066	0.0000061 J	NA
OCDF	ND(0.0000077)	0.0000047 J	0.0000023 J	0.0000097 J	NA
Dioxins					
2,3,7,8-TCDD	ND(0.0000024)	ND(0.0000066)	ND(0.00000077)	ND(0.00000099)	NA
TCDDs (total)	ND(0.0000024)	ND(0.0000066)	0.0000016 J	ND(0.00000099)	NA
1,2,3,7,8-PeCDD	ND(0.0000038)	ND(0.0000039)	ND(0.0000039)	ND(0.0000046)	NA
PeCDDs (total)	ND(0.0000038)	0.000016 J	ND(0.0000039)	ND(0.0000046)	NA
1,2,3,4,7,8-HxCDD	ND(0.0000038)	ND(0.0000039)	ND(0.0000039)	ND(0.0000046)	NA
1,2,3,6,7,8-HxCDD	ND(0.0000038)	0.0000058 J	ND(0.0000039)	ND(0.0000046)	NA
1,2,3,7,8,9-HxCDD	ND(0.0000038)	0.0000056 IJ	ND(0.0000039)	ND(0.0000046)	NA
HxCDDs (total)	ND(0.0000038)	0.000042 J	ND(0.0000039)	ND(0.0000046)	NA
1,2,3,4,6,7,8-HpCDD	0.0000044 J	0.0000067 J	0.0000014 J	0.0000092 J	NA
HpCDDs (total)	0.0000044 J	0.000013	0.0000027 J	0.0000019 J	NA
OCDD	0.0000028 J	0.000059 B	0.000011	0.0000073 J	NA
Total TEQs (WHO TEFs)	0.0000060	0.0000038	0.0000026	0.0000061	NA

TABLE 6-7
APPENDIX IX+3 SOIL DATA RECEIVED DURING JULY 2006

SUPPLEMENTAL PRE-DESIGN INVESTIGATION
HILL 78 AREA REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: Sample Depth(Feet): Date Collected:	RAA9-D8 1-6 06/21/06	RAA9-H11W-SD 0-0.5 06/26/06	RAA9-I19 0-1 06/16/06	RAA9-I19 1-6 06/16/06	RAA9-I19 4-6 06/16/06
Inorganics						
Antimony		1.18 B	0.803 B	1.36 B	1.40 B	NA
Arsenic		4.26	1.27	29.5	4.83	NA
Barium		28.6 B	14.1 B	26.5 B	21.0 B	NA
Beryllium		0.250 B	0.201 B	0.0858 B	0.143 B	NA
Cadmium		0.0662 B	0.221 B	ND(0.488)	ND(0.512)	NA
Chromium		8.65	9.78	6.18	8.12	NA
Cobalt		11.4	5.26	4.09	3.65	NA
Copper		24.7	224	20.2	11.1 B	NA
Cyanide		ND(0.190)	ND(0.131)	ND(0.190)	ND(0.200)	NA
Lead		9.34	11.9	17.9	7.15	NA
Mercury		0.0215 B	0.0117 B	0.0321 B	0.0205 B	NA
Nickel		16.9	10.1	10.2	9.52	NA
Selenium		ND(2.17)	ND(1.98)	0.900 B	ND(2.05)	NA
Thallium		ND(1.09)	ND(0.991)	ND(0.975)	ND(1.02)	NA
Tin		ND(10.9)	2.01 B	1.39 B	1.09 B	NA
Vanadium		9.04	13.7	10.1	8.56	NA
Zinc		55.3	324	33.0	33.0	NA

TABLE 6-7
APPENDIX IX+3 SOIL DATA RECEIVED DURING JULY 2006

SUPPLEMENTAL PRE-DESIGN INVESTIGATION
HILL 78 AREA REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: Sample Depth(Feet): Date Collected:	RAA9-I22 0-1 06/19/06	RAA9-J20 0-1 06/16/06	RAA9-J20 6-15 06/16/06	RAA9-J20 10-12 06/16/06
Volatile Organics				
2-Butanone	NA	ND(0.0049)	NA	ND(0.0046)
4-Methyl-2-pentanone	NA	ND(0.0049)	NA	ND(0.0046)
Acetone	NA	0.059	NA	0.0058
Carbon Disulfide	NA	ND(0.0049)	NA	ND(0.0046)
Trichloroethene	NA	ND(0.0049)	NA	ND(0.0046)
Semivolatile Organics				
1,2,4-Trichlorobenzene	0.075 J	ND(0.33)	ND(0.34)	NA
Acenaphthene	ND(0.32)	ND(0.33)	ND(0.34)	NA
Acenaphthylene	0.094 J	ND(0.33)	ND(0.34)	NA
Anthracene	0.12 J	ND(0.33)	ND(0.34)	NA
Benzo(a)anthracene	0.67	ND(0.33)	ND(0.34)	NA
Benzo(a)pyrene	0.59	ND(0.33)	ND(0.34)	NA
Benzo(b)fluoranthene	0.79	ND(0.33)	ND(0.34)	NA
Benzo(g,h,i)perylene	0.74	ND(0.33)	ND(0.34)	NA
Benzo(k)fluoranthene	0.29 J	ND(0.33)	ND(0.34)	NA
bis(2-Ethylhexyl)phthalate	ND(0.32)	ND(0.33)	ND(0.34)	NA
Chrysene	0.62	0.084 J	ND(0.34)	NA
Dibenzo(a,h)anthracene	ND(0.32)	ND(0.33)	ND(0.34)	NA
Dibenzofuran	ND(0.32)	ND(0.33)	ND(0.34)	NA
Fluoranthene	1.1	0.077 J	ND(0.34)	NA
Fluorene	ND(0.32)	ND(0.33)	ND(0.34)	NA
Indeno(1,2,3-cd)pyrene	0.70	ND(0.33)	ND(0.34)	NA
Naphthalene	0.068 J	ND(0.33)	ND(0.34)	NA
Phenanthrene	0.43	0.067 J	ND(0.34)	NA
Pyrene	0.94	0.084 J	ND(0.34)	NA
Furans				
2,3,7,8-TCDF	0.0000055	0.0000043	0.0000011 J	NA
TCDFs (total)	0.000067	0.000047	0.0000031 J	NA
1,2,3,7,8-PeCDF	0.0000038 J	0.0000018 J	ND(0.00000037)	NA
2,3,4,7,8-PeCDF	0.000013	0.0000059	ND(0.00000037)	NA
PeCDFs (total)	0.00016	0.000061	ND(0.00000037)	NA
1,2,3,4,7,8-HxCDF	0.000017	0.0000022 J	ND(0.00000037)	NA
1,2,3,6,7,8-HxCDF	0.0000094	0.0000019 J	ND(0.00000037)	NA
1,2,3,7,8,9-HxCDF	0.0000043	0.00000052 J	ND(0.00000037)	NA
2,3,4,6,7,8-HxCDF	0.000016	0.0000032 J	ND(0.00000037)	NA
HxCDFs (total)	0.00022	0.000044	ND(0.00000037)	NA
1,2,3,4,6,7,8-HpCDF	0.000020	0.0000066	ND(0.00000037)	NA
1,2,3,4,7,8,9-HpCDF	0.0000064	0.0000082 J	ND(0.00000037)	NA
HpCDFs (total)	0.000057	0.000014	ND(0.00000037)	NA
OCDF	0.000016	0.000024	0.0000013 J	NA
Dioxins				
2,3,7,8-TCDD	0.00000013 J	ND(0.00000097) X	ND(0.00000074)	NA
TCDDs (total)	0.00000030 J	0.0000017	ND(0.00000074)	NA
1,2,3,7,8-PeCDD	0.00000065 J	ND(0.00000039)	ND(0.00000037)	NA
PeCDDs (total)	0.0000044	0.0000012 J	ND(0.00000037)	NA
1,2,3,4,7,8-HxCDD	0.00000046 J	ND(0.00000039)	ND(0.00000037)	NA
1,2,3,6,7,8-HxCDD	0.00000086 J	ND(0.00000039)	ND(0.00000037)	NA
1,2,3,7,8,9-HxCDD	0.00000057 J	ND(0.00000039)	ND(0.00000037)	NA
HxCDDs (total)	0.000011	0.0000032 J	ND(0.00000037)	NA
1,2,3,4,6,7,8-HpCDD	0.0000056	0.0000038 J	ND(0.00000037)	NA
HpCDDs (total)	0.000012	0.0000077	ND(0.00000037)	NA
OCDD	0.000034	0.000026	0.0000018 J	NA
Total TEQs (WHO TEFs)	0.000013	0.0000047	0.00000047	NA

TABLE 6-7
APPENDIX IX+3 SOIL DATA RECEIVED DURING JULY 2006

**SUPPLEMENTAL PRE-DESIGN INVESTIGATION
HILL 78 AREA REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)**

Parameter	Sample ID: Sample Depth(Feet): Date Collected:	RAA9-I22 0-1 06/19/06	RAA9-J20 0-1 06/16/06	RAA9-J20 6-15 06/16/06	RAA9-J20 10-12 06/16/06
Inorganics					
Antimony		1.64 B	1.09 B	1.01 B	NA
Arsenic		9.25	4.47	1.78	NA
Barium		39.9 B	25.6 B	16.3 B	NA
Beryllium		0.161 B	0.444 B	0.172 B	NA
Cadmium		ND(0.522)	0.157 B	0.0949 B	NA
Chromium		10.1	7.56	7.25	NA
Cobalt		10.1	10.8	5.75	NA
Copper		50.6	41.1	14.7 B	NA
Cyanide		ND(0.190)	ND(0.200)	ND(0.190)	NA
Lead		23.8	14.0	6.30	NA
Mercury		0.435	0.0475	0.0100 B	NA
Nickel		18.3	17.3	12.0	NA
Selenium		1.53 B	ND(2.20)	ND(1.94)	NA
Thallium		ND(1.04)	ND(1.10)	ND(0.968)	NA
Tin		1.93 B	1.36 B	1.24 B	NA
Vanadium		9.11	7.50	6.40	NA
Zinc		87.5	50.2	33.4	NA

**TABLE 6-7
APPENDIX IX+3 SOIL DATA RECEIVED DURING JULY 2006**

**SUPPLEMENTAL PRE-DESIGN INVESTIGATION
HILL 78 AREA REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)**

Sample ID: Sample Depth(Feet): Date Collected:	RAA9-J21 1-6 06/19/06	RAA9-J22 6-15 06/19/06	RAA9-K19 0-1 06/16/06
Volatile Organics			
2-Butanone	NA	NA	ND(0.0048)
4-Methyl-2-pentanone	NA	NA	ND(0.0048)
Acetone	NA	NA	0.041
Carbon Disulfide	NA	NA	ND(0.0048)
Trichloroethene	NA	NA	0.0052
Semivolatile Organics			
1,2,4-Trichlorobenzene	ND(0.31) [ND(0.32)]	ND(0.34)	ND(0.33)
Acenaphthene	ND(0.31) [ND(0.32)]	ND(0.34)	ND(0.33)
Acenaphthylene	ND(0.31) [ND(0.32)]	ND(0.34)	ND(0.33)
Anthracene	ND(0.31) [ND(0.32)]	ND(0.34)	ND(0.33)
Benzo(a)anthracene	ND(0.31) [ND(0.32)]	ND(0.34)	0.090 J
Benzo(a)pyrene	ND(0.31) [ND(0.32)]	ND(0.34)	0.066 J
Benzo(b)fluoranthene	ND(0.31) [ND(0.32)]	ND(0.34)	0.12 J
Benzo(g,h,i)perylene	ND(0.31) [ND(0.32)]	ND(0.34)	ND(0.33)
Benzo(k)fluoranthene	ND(0.31) [ND(0.32)]	ND(0.34)	ND(0.33)
bis(2-Ethylhexyl)phthalate	ND(0.31) [ND(0.32)]	ND(0.34)	ND(0.33)
Chrysene	ND(0.31) [ND(0.32)]	ND(0.34)	0.12 J
Dibenzo(a,h)anthracene	ND(0.31) [ND(0.32)]	ND(0.34)	ND(0.33)
Dibenzofuran	ND(0.31) [ND(0.32)]	ND(0.34)	ND(0.33)
Fluoranthene	ND(0.31) [ND(0.32)]	0.072 J	0.16 J
Fluorene	ND(0.31) [ND(0.32)]	ND(0.34)	ND(0.33)
Indeno(1,2,3-cd)pyrene	ND(0.31) [ND(0.32)]	ND(0.34)	ND(0.33)
Naphthalene	ND(0.31) [ND(0.32)]	ND(0.34)	ND(0.33)
Phenanthrene	ND(0.31) [ND(0.32)]	ND(0.34)	0.086 J
Pyrene	ND(0.31) [ND(0.32)]	ND(0.34)	0.15 J
Furans			
2,3,7,8-TCDF	0.0000056 J [0.0000053 J]	0.0000051 J	0.000011
TCDFs (total)	0.0000030 [0.0000030]	0.0000037	0.00011
1,2,3,7,8-PeCDF	ND(0.0000046) [ND(0.0000043)]	ND(0.0000045)	0.0000043
2,3,4,7,8-PeCDF	ND(0.0000046) [ND(0.0000043)]	0.0000092 J	0.000014
PeCDFs (total)	0.0000011 J [0.0000012 J]	0.0000089	0.00018
1,2,3,4,7,8-HxCDF	ND(0.0000046) [ND(0.0000043)]	ND(0.0000045)	0.0000088
1,2,3,6,7,8-HxCDF	ND(0.0000046) [ND(0.0000043)]	ND(0.0000045)	0.0000063
1,2,3,7,8,9-HxCDF	ND(0.0000046) [ND(0.0000043)]	ND(0.0000045)	0.0000016 J
2,3,4,6,7,8-HxCDF	ND(0.0000046) [ND(0.0000043)]	0.0000057 J	0.000012
HxCDFs (total)	0.0000076 J [0.0000067 J]	0.0000072	0.00015
1,2,3,4,6,7,8-HpCDF	ND(0.0000046) [ND(0.0000043)]	0.0000093 J	0.000020
1,2,3,4,7,8,9-HpCDF	ND(0.0000046) [ND(0.0000043)]	ND(0.0000045)	0.0000029 J
HpCDFs (total)	ND(0.0000046) [ND(0.0000043)]	0.0000020 J	0.000044
OCDF	ND(0.0000091) [ND(0.0000086)]	ND(0.0000089)	0.000019
Dioxins			
2,3,7,8-TCDD	ND(0.0000096) [ND(0.0000086)]	ND(0.0000089)	ND(0.0000018) X
TCDDs (total)	ND(0.0000096) [ND(0.0000086)]	ND(0.0000089)	0.0000031
1,2,3,7,8-PeCDD	ND(0.0000046) [ND(0.0000043)]	ND(0.0000045)	0.0000039 J
PeCDDs (total)	ND(0.0000046) [ND(0.0000043)]	ND(0.0000045)	0.0000042
1,2,3,4,7,8-HxCDD	ND(0.0000046) [ND(0.0000043)]	ND(0.0000045)	0.0000028 J
1,2,3,6,7,8-HxCDD	ND(0.0000046) [ND(0.0000043)]	ND(0.0000045)	0.0000074 J
1,2,3,7,8,9-HxCDD	ND(0.0000046) [ND(0.0000043)]	ND(0.0000045)	0.0000057 J
HxCDDs (total)	ND(0.0000046) [ND(0.0000043)]	ND(0.0000045)	0.0000081
1,2,3,4,6,7,8-HpCDD	ND(0.0000046) [ND(0.0000043)]	0.0000066 J	0.0000071
HpCDDs (total)	ND(0.0000046) [ND(0.0000043)]	0.0000013 J	0.000015
OCDD	0.0000016 J [0.0000025 J]	0.0000038 J	0.000052
Total TEQs (WHO TEFs)	0.0000062 [0.0000059]	0.0000010	0.000012

TABLE 6-7
APPENDIX IX+3 SOIL DATA RECEIVED DURING JULY 2006

SUPPLEMENTAL PRE-DESIGN INVESTIGATION
HILL 78 AREA REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: Sample Depth(Feet): Date Collected:	RAA9-J21 1-6 06/19/06	RAA9-J22 6-15 06/19/06	RAA9-K19 0-1 06/16/06
Inorganics				
Antimony		0.814 B [1.16 B]	0.565 B	1.38 B
Arsenic		3.60 [3.26]	3.75	5.25
Barium		11.8 B [15.3 B]	17.2 B	17.3 B
Beryllium		0.193 B [0.196 B]	0.244 B	0.187 B
Cadmium		ND(0.495) [0.0525 B]	0.115 B	0.0268 B
Chromium		7.50 [7.38]	7.70	7.76
Cobalt		6.74 [5.50]	11.0	7.42
Copper		12.6 B [18.5 B]	15.8 B	33.5
Cyanide		ND(0.180) [ND(0.190)]	ND(0.200)	ND(0.200)
Lead		5.24 [6.32]	5.75	16.6
Mercury		0.0151 B [0.0133 B]	ND(0.0441)	0.0420
Nickel		12.9 [11.3]	15.0	19.2
Selenium		2.13 [2.38]	2.47	ND(2.06)
Thallium		ND(0.991) [ND(1.03)]	ND(1.06)	ND(1.03)
Tin		ND(9.91) [1.60 B]	ND(10.6)	2.14 B
Vanadium		7.20 [6.97]	7.06	9.71
Zinc		46.0 [36.3]	39.9	55.5

TABLE 6-7
APPENDIX IX+3 SOIL DATA RECEIVED DURING JULY 2006

SUPPLEMENTAL PRE-DESIGN INVESTIGATION
HILL 78 AREA REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: Sample Depth(Feet): Date Collected:	RAA9-K19 6-15 06/16/06	RAA9-K19 8-10 06/16/06	RAA9-K20 1-6 06/16/06	RAA9-K20 3-4 06/16/06
Parameter				
Volatile Organics				
2-Butanone	NA	ND(0.0065)	NA	ND(0.0047)
4-Methyl-2-pentanone	NA	ND(0.0065)	NA	ND(0.0047)
Acetone	NA	0.021	NA	0.018
Carbon Disulfide	NA	ND(0.0065)	NA	ND(0.0047)
Trichloroethene	NA	ND(0.0065)	NA	ND(0.0047)
Semivolatile Organics				
1,2,4-Trichlorobenzene	ND(0.34)	NA	ND(0.33)	NA
Acenaphthene	ND(0.34)	NA	ND(0.33)	NA
Acenaphthylene	ND(0.34)	NA	ND(0.33)	NA
Anthracene	ND(0.34)	NA	ND(0.33)	NA
Benzo(a)anthracene	ND(0.34)	NA	ND(0.33)	NA
Benzo(a)pyrene	ND(0.34)	NA	ND(0.33)	NA
Benzo(b)fluoranthene	ND(0.34)	NA	ND(0.33)	NA
Benzo(g,h,i)perylene	ND(0.34)	NA	ND(0.33)	NA
Benzo(k)fluoranthene	ND(0.34)	NA	ND(0.33)	NA
bis(2-Ethylhexyl)phthalate	ND(0.34)	NA	ND(0.33)	NA
Chrysene	ND(0.34)	NA	ND(0.33)	NA
Dibenzo(a,h)anthracene	ND(0.34)	NA	ND(0.33)	NA
Dibenzofuran	ND(0.34)	NA	ND(0.33)	NA
Fluoranthene	ND(0.34)	NA	ND(0.33)	NA
Fluorene	ND(0.34)	NA	ND(0.33)	NA
Indeno(1,2,3-cd)pyrene	ND(0.34)	NA	ND(0.33)	NA
Naphthalene	ND(0.34)	NA	ND(0.33)	NA
Phenanthrene	ND(0.34)	NA	ND(0.33)	NA
Pyrene	ND(0.34)	NA	ND(0.33)	NA
Furans				
2,3,7,8-TCDF	0.00000014 J	NA	0.00000013 J	NA
TCDFs (total)	0.00000014 J	NA	0.00000023 J	NA
1,2,3,7,8-PeCDF	ND(0.00000040)	NA	ND(0.00000036)	NA
2,3,4,7,8-PeCDF	ND(0.00000040)	NA	ND(0.00000036)	NA
PeCDFs (total)	ND(0.00000040)	NA	ND(0.00000036)	NA
1,2,3,4,7,8-HxCDF	ND(0.00000040)	NA	ND(0.00000036)	NA
1,2,3,6,7,8-HxCDF	ND(0.00000040)	NA	ND(0.00000036)	NA
1,2,3,7,8,9-HxCDF	ND(0.00000040)	NA	ND(0.00000036)	NA
2,3,4,6,7,8-HxCDF	ND(0.00000040)	NA	ND(0.00000036)	NA
HxCDFs (total)	ND(0.00000040)	NA	ND(0.00000036)	NA
1,2,3,4,6,7,8-HpCDF	ND(0.00000040)	NA	ND(0.00000036)	NA
1,2,3,4,7,8,9-HpCDF	ND(0.00000040)	NA	ND(0.00000036)	NA
HpCDFs (total)	ND(0.00000040)	NA	ND(0.00000036)	NA
OCDF	0.00000034 J	NA	ND(0.00000073)	NA
Dioxins				
2,3,7,8-TCDD	ND(0.00000013)	NA	ND(0.00000073)	NA
TCDDs (total)	ND(0.00000013)	NA	ND(0.00000073)	NA
1,2,3,7,8-PeCDD	ND(0.00000040)	NA	ND(0.00000036)	NA
PeCDDs (total)	ND(0.00000040)	NA	ND(0.00000036)	NA
1,2,3,4,7,8-HxCDD	ND(0.00000040)	NA	ND(0.00000036)	NA
1,2,3,6,7,8-HxCDD	ND(0.00000040)	NA	ND(0.00000036)	NA
1,2,3,7,8,9-HxCDD	ND(0.00000040)	NA	ND(0.00000036)	NA
HxCDDs (total)	ND(0.00000040)	NA	ND(0.00000036)	NA
1,2,3,4,6,7,8-HpCDD	ND(0.00000040)	NA	ND(0.00000036)	NA
HpCDDs (total)	ND(0.00000040)	NA	ND(0.00000036)	NA
OCDD	0.00000019 J	NA	0.00000088 J	NA
Total TEQs (WHO TEFs)	0.00000054	NA	0.00000046	NA

TABLE 6-7
APPENDIX IX+3 SOIL DATA RECEIVED DURING JULY 2006

SUPPLEMENTAL PRE-DESIGN INVESTIGATION
HILL 78 AREA REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter	Sample ID: Sample Depth(Feet): Date Collected:	RAA9-K19 6-15 06/16/06	RAA9-K19 8-10 06/16/06	RAA9-K20 1-6 06/16/06	RAA9-K20 3-4 06/16/06
Inorganics					
Antimony		ND(4.42)	NA	0.927 B	NA
Arsenic		2.36	NA	2.16	NA
Barium		20.6 B	NA	42.2 B	NA
Beryllium		0.203 B	NA	0.265 B	NA
Cadmium		0.0398 B	NA	0.0673 B	NA
Chromium		7.11	NA	7.21	NA
Cobalt		6.78	NA	45.2	NA
Copper		14.5 B	NA	19.9 B	NA
Cyanide		ND(0.200)	NA	ND(0.190)	NA
Lead		5.39	NA	7.42	NA
Mercury		0.0126 B	NA	0.0193 B	NA
Nickel		12.8	NA	74.1	NA
Selenium		ND(2.21)	NA	ND(2.01)	NA
Thallium		ND(1.11)	NA	ND(1.00)	NA
Tin		1.24 B	NA	1.28 B	NA
Vanadium		6.79	NA	7.26	NA
Zinc		41.5	NA	96.5	NA

TABLE 6-7
APPENDIX IX+3 SOIL DATA RECEIVED DURING JULY 2006

SUPPLEMENTAL PRE-DESIGN INVESTIGATION
HILL 78 AREA REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Sample ID: Sample Depth(Feet): Date Collected:	RAA9-L13N-SD 0-0.5 06/15/06	RAA9-L14W-SD 0-0.5 06/15/06	RAA9-N8 0-1 06/22/06
Parameter			
Volatile Organics			
2-Butanone	ND(0.0051) [ND(0.0051)]	0.0092	ND(0.0051)
4-Methyl-2-pentanone	ND(0.0051) [ND(0.0051)]	ND(0.0057)	ND(0.0051)
Acetone	0.042 [0.046]	0.19	0.065
Carbon Disulfide	ND(0.0051) [ND(0.0051)]	ND(0.0057)	ND(0.0051)
Trichloroethene	ND(0.0051) [ND(0.0051)]	ND(0.0057)	ND(0.0051)
Semivolatile Organics			
1,2,4-Trichlorobenzene	ND(1.5) [ND(3.7)]	ND(0.39)	ND(0.34)
Acenaphthene	0.27 J [0.63 J]	0.090 J	ND(0.34)
Acenaphthylene	1.1 J [1.1 J]	0.13 J	ND(0.34)
Anthracene	1.1 J [2.2 J]	0.33 J	ND(0.34)
Benzo(a)anthracene	4.3 [8.0]	1.8	0.14 J
Benzo(a)pyrene	4.8 [7.2]	1.9	0.10 J
Benzo(b)fluoranthene	5.6 [8.1]	2.5	0.12 J
Benzo(g,h,i)perylene	4.0 [5.7]	1.5	ND(0.34)
Benzo(k)fluoranthene	2.2 [3.5 J]	0.85	0.10 J
bis(2-Ethylhexyl)phthalate	ND(1.5) [ND(3.7)]	ND(0.39)	0.075 J
Chrysene	5.7 [9.2]	2.5	0.16 J
Dibenzo(a,h)anthracene	0.72 J [ND(3.7)]	0.36 J	ND(0.34)
Dibenzofuran	ND(1.5) [ND(3.7)]	ND(0.39)	ND(0.34)
Fluoranthene	12 [19]	4.6	0.34 J
Fluorene	0.62 J [1.2 J]	0.12 J	ND(0.34)
Indeno(1,2,3-cd)pyrene	3.8 [5.9]	1.5	ND(0.34)
Naphthalene	ND(1.5) [ND(3.7)]	ND(0.39)	ND(0.34)
Phenanthrene	7.7 [14]	2.2	0.17 J
Pyrene	12 [19]	4.5	0.40
Furans			
2,3,7,8-TCDF	0.0000069 [0.0000028]	0.0000068	0.0000088
TCDFs (total)	0.00011 [0.000051]	0.000090	0.000092
1,2,3,7,8-PeCDF	0.0000027 J [0.0000012 J]	0.0000050	0.0000040 J
2,3,4,7,8-PeCDF	0.0000030 [0.000012 J]	0.000014	0.0000062
PeCDFs (total)	0.00032 [0.000086]	0.00014	0.000070 J
1,2,3,4,7,8-HxCDF	0.0000064 J [0.0000026 J]	0.000014	0.0000037 J
1,2,3,6,7,8-HxCDF	0.0000073 J [0.0000031 J]	0.000010	0.0000027 J
1,2,3,7,8,9-HxCDF	0.0000023 J [ND(0.0000011)]	0.0000024 J	0.00000058 J
2,3,4,6,7,8-HxCDF	0.000017 [0.0000072 J]	0.000016	0.0000032 J
HxCDFs (total)	0.00025 [0.000099]	0.00024	0.000037
1,2,3,4,6,7,8-HpCDF	0.000028 [0.000012 J]	0.000069	0.000011
1,2,3,4,7,8,9-HpCDF	0.0000060 J [ND(0.0000011)]	0.0000056	0.0000010 J
HpCDFs (total)	0.000070 [0.000028]	0.00015	0.000020
OCDF	0.000076 [0.000032 J]	0.00012	0.000013
Dioxins			
2,3,7,8-TCDD	0.00000093 J [0.00000055 J]	0.00000076 J	0.0000038
TCDDs (total)	0.0000039 [0.00000055 J]	0.0000087	0.0000060
1,2,3,7,8-PeCDD	0.0000018 J [0.0000011 J]	0.00000048 J	ND(0.00000042)
PeCDDs (total)	0.000024 [0.0000063 J]	0.000015	0.0000024 J
1,2,3,4,7,8-HxCDD	0.0000014 J [0.00000063 J]	0.0000030 J	ND(0.00000042)
1,2,3,6,7,8-HxCDD	0.0000053 J [0.0000027 J]	0.0000082	0.00000073 J
1,2,3,7,8,9-HxCDD	0.0000041 J [0.0000022 J]	0.0000073	0.00000061 J
HxCDDs (total)	0.000058 [0.000027]	0.000063	0.0000056
1,2,3,4,6,7,8-HpCDD	0.000051 [0.000027]	0.00014	0.000011
HpCDDs (total)	0.000097 [0.000049]	0.00025	0.000019
OCDD	0.00049 [0.00031]	0.00084	0.000069
Total TEQs (WHO TEFs)	0.000024 [0.000011]	0.000017	0.0000096

**TABLE 6-7
APPENDIX IX+3 SOIL DATA RECEIVED DURING JULY 2006**

**SUPPLEMENTAL PRE-DESIGN INVESTIGATION
HILL 78 AREA REMAINDER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)**

Parameter	Sample ID: Sample Depth(Feet): Date Collected:	RAA9-L13N-SD 0-0.5 06/15/06	RAA9-L14W-SD 0-0.5 06/15/06	RAA9-N8 0-1 06/22/06
Inorganics				
Antimony		0.800 B [1.47 B]	1.38 B	2.08 B
Arsenic		1.64 [3.64]	1.28 B	3.54
Barium		25.5 B [145]	31.0 B	135
Beryllium		0.189 B [0.225 B]	0.253 B	0.219 B
Cadmium		0.420 B [0.218 B]	0.375 B	0.381 B
Chromium		9.12 [9.51]	12.9	31.5
Cobalt		6.72 [9.11]	7.75	7.44
Copper		24.1 [21.9 B]	31.1	30.2
Cyanide		1.90 [ND(0.210)]	ND(0.210)	ND(0.131)
Lead		98.1 [82.9]	27.4	168
Mercury		0.0870 [0.0652]	0.0541	0.0955
Nickel		15.9 [11.7]	15.5	14.0
Selenium		ND(2.09) [1.03 B]	0.628 B	ND(2.15)
Thallium		ND(1.05) [4.20]	ND(1.28)	ND(1.08)
Tin		2.29 B [2.23 B]	3.24 B	157
Vanadium		30.3 [26.2]	19.4	11.9
Zinc		118 [103]	481	197

Notes:

1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of Appendix IX+3 constituents.
2. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
3. 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.
4. With the exception of dioxin/furans, only those constituents detected in one or more samples are summarized.
5. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, semivolatiles, dioxin/furans)

- J - Indicates an estimated value less than the practical quantitation limit (PQL).
- I - Polychlorinated Diphenyl Ether (PCDPE) Interference.
- X - Estimated maximum possible concentration.

Inorganics

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

**ITEM 7
PLANT AREA
UNKAMET BROOK AREA
(GEC170)
JULY 2006**

a. Activities Undertaken/Completed

- Continued activities related to the detailed surveys (including metes and bounds and topographic surveys) of the Unkamet Brook Area (being performed by Hill Engineers, Architects & Planners, Inc.).*
- Attended technical meeting with EPA to discuss several issues (July 12, 2006).*
- Conducted sampling of sand piles from interplant roadway sweepings within the Building 51/ Building 59 area, as identified in Table 7-1.

b. Sampling/Test Results Received

See attached tables.

c. Work Plans/Reports/Documents Submitted

None

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

- Continue performing detailed surveys of the Unkamet Brook Area and submit resulting survey information.*
- Submit information addressing channel flow in Unkamet Brook following re-location of the brook.*
- Following EPA approval of the Pre-Design Investigation Report (submitted on September 6, 2005), initiate the additional soil sampling activities proposed therein and proposed in the EPA-approved November 2005 Addendum (approval received in March 2006).*

e. General Progress/Unresolved Issues/Potential Schedule Impacts

Several issues stemming from July 12, 2006 technical meeting are under discussion with EPA.*

f. Proposed/Approved Work Plan Modifications

In a letter dated August 15, 2005, GE proposed to remove Parcel L12-1-2 from the Unkamet Brook Area RAA. That proposal is pending approval from EPA.*

**TABLE 7-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**UNKAMET BROOK AREA
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Sampling of Sand Sweepings	Bldg119-SP1-1	7/18/06	Soil	SGS	PCB	7/26/06
Sampling of Sand Sweepings	Bldg119-SP2-1	7/18/06	Soil	SGS	PCB	7/26/06
Sampling of Sand Sweepings	Bldg119-SP3-1	7/18/06	Soil	SGS	PCB	7/26/06
Sampling of Sand Sweepings	Bldg119-SP4-1	7/18/06	Soil	SGS	PCB	7/26/06

**TABLE 7-2
PCB DATA RECEIVED DURING JULY 2006**

**SAMPLING OF SAND SWEEPINGS
UNKAMET BROOK AREA
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
Bldg119-SP1-1	7/18/06	ND(0.035)	0.074	0.074	0.148
Bldg119-SP2-1	7/18/06	ND(0.033)	0.039	0.069	0.108
Bldg119-SP3-1	7/18/06	ND(0.040)	0.074	0.22	0.294
Bldg119-SP4-1	7/18/06	ND(0.039)	0.060	0.056	0.116

Notes:

1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of PCBs.
2. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.

**ITEM 8
FORMER OXBOW AREAS A & C
(GEC410)
JULY 2006**

a. Activities Undertaken/Completed

- Obtained access agreement from owner of Parcels I8-23-6 and I9-5-1 for remediation.*
- Initiated soil remediation actions.*
- Conducted air monitoring for particulates in connection with remediation actions, as identified in Table 8-1.*
- Conducted Toxicity Characteristic Leaching Procedure (TCLP) sampling of soil from loam pile located within Parcel I8-23-6, as identified in Table 8-1.

b. Sampling/Test Results Received

None

c. Work Plans/Reports/Documents Submitted

Submitted analytical results for proposed backfill and topsoil sources to EPA (July 10, 2006).*

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

- Continue soil remediation actions.*
- Submit Addendum to Supplemental Information Package showing modified vegetation restoration plans as agreed with property owners.*

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

Received EPA conditional approval of GE's June 15, 2006 Supplemental Information Package for Former Oxbow Areas A and C, Former Oxbow Areas J and K, and Lyman Street Area – Properties West of Lyman Street (July 7, 2006).*

**TABLE 8-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**FORMER OXBOW AREAS A & C
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Loam Pile Sampling	LP1-Q1-C1	7/31/06	Soil	SGS	TCLP - VOC, SVOC, Metals, Hg, Pest, Herb	
Loam Pile Sampling	LP1-Q2-C1	7/31/06	Soil	SGS	TCLP - VOC, SVOC, Metals, Hg, Pest, Herb	
Loam Pile Sampling	LP1-Q3-C1	7/28/06	Soil	SGS	TCLP - VOC, SVOC, Metals, Hg, Pest, Herb	
Loam Pile Sampling	LP1-Q4-C1	7/28/06	Soil	SGS	TCLP - VOC, SVOC, Metals, Hg, Pest, Herb	
Ambient Air Particulate Matter Sampling	OX-1	7/31/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	OX-2A	7/31/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	OX-2B	7/31/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	Background Location	7/31/06	Air	Berkshire Environmental	Particulate Matter	8/1/06

TABLE 8-2
AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING JULY 2006
PARTICULATE AMBIENT AIR CONCENTRATIONS
FORMER OXBOW AREAS A & C
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sampling Date ²	Sampler Location	Average Site Concentration (mg/m ³)	Background Site Concentration (mg/m ³)	Average Period (Hours:Min)	Predominant Wind Direction
7/31/06	OX-1	0.012*	0.015*	11:30	Variable
	OX-2A	0.035*		8:30 ³	
	OX-2B	0.015*		8:30 ³	
Notification Level		0.120			

Notes:

* Measured with DR-2000 or DR-4000.

Background monitoring station is located east of Building 9B, between 9B and New York Avenue.

Predominant wind direction determined using hourly wind direction data from the Pittsfield Municipal Airport Weather Station.

¹ Monitoring was performed only on days when site activities occurred.

² The particulate monitors obtain real-time data. The sampling data were obtained by BEC on the sampling date.

³ Sampling period was shortened due to relocation of monitors related to site activity.

**ITEM 9
LYMAN STREET AREA
(GEC430)
JULY 2006**

* All activities described below for this item were conducted pursuant to the Consent Decree.

a. Activities Undertaken/Completed

None

b. Sampling/Test Results Received

None

c. Work Plans/Reports/Documents Submitted

Submitted analytical results for proposed backfill and topsoil sources to EPA (July 10, 2006).

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

- Initiate soil remediation actions at properties west of Lyman Street.
- Submit Addendum to Supplemental Information Package showing modified vegetation restoration plans as agreed with property owners.

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

Received EPA conditional approval of GE's June 15, 2006 Supplemental Information Package for Former Oxbow Areas A and C, Former Oxbow Areas J and K, and Lyman Street Area – Properties West of Lyman Street (July 7, 2006).

**ITEM 10
NEWELL STREET AREA I
(GEC440)
JULY 2006**

* All activities described below for this item were conducted pursuant to the Consent Decree.

a. Activities Undertaken/Completed

None

b. Sampling/Test Results Received

None

c. Work Plans/Reports/Documents Submitted

Submitted report on May 2006 semi-annual inspection of engineered barriers and restored and revegetated areas (July 6, 2006).

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

- Obtain survey of GE-owned strip of land adjacent to Housatonic River for use in connection with ERE.
- Submit revised drafts of EREs and associated survey plans for GE-owned properties to EPA and MDEP.
- Send letters to owners of properties with Conditional Solutions regarding the Conditional Solutions.
- Complete restoration activities at Parcels J9-23-19, -20, and -21.
- Work on Final Completion Report.

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

None

**ITEM 11
NEWELL STREET AREA II
(GEC450)
JULY 2006**

* All activities described below for this item were conducted pursuant to or in connection with the Consent Decree.

a. Activities Undertaken/Completed

- Completed remaining soil remediation activities – i.e., installation of engineered barriers.
- Conducted ambient air monitoring for particulates, as identified in Table 11-1.
- Continued shipment of soil excavated from Parcel J9-23-8 to the selected disposal facility located in Port Arthur, Texas.
- Conducted drum sampling at Building 78 of soil cuttings, decontamination water, and well development water produced during well installation activities, as identified in Table 11-1.

b. Sampling/Test Results Received

See attached tables.

c. Work Plans/Reports/Documents Submitted

None

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

- Continue shipments of soil excavated from Parcel J9-23-8 to the selected disposal facility located in Port Arthur, Texas.
- Complete paving work associated with installation of access road and turn-around area.

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

None

**TABLE 11-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Newell Street Decon Water Sampling	Newell-Decon-1	7/10/06	Water	SGS	PCB, VOC, SVOC, Total Metals	
Sampling Newell St. Well N2SC-01IR	N2SC-01IR-1	7/13/06	Water	SGS	PCB, VOC, SVOC, Total Metals	
Sampling Newell St. Well N2SC-03IR	N2SC-03IR-1	7/13/06	Water	SGS	PCB, VOC, SVOC, Total Metals	
Soil Sampling	A1906-1	7/7/06	Soil	SGS	PCB, TCLP	7/27/06
Soil Sampling	A3005-1	7/7/06	Soil	SGS	PCB, TCLP	7/27/06
Soil Sampling	NS-15R-Soil-1	7/6/06	Soil	SGS	PCB, TCLP	
Ambient Air Particulate Matter Sampling	NN1 - Northwest	7/5/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	NN2 - Southwest	7/5/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	NN3 - Southeast	7/5/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	NN4 - Northeast	7/5/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Background Location	7/5/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	NN1 - Northwest	7/6/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	NN2 - Southwest	7/6/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	NN3 - Southeast	7/6/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	NN4 - Northeast	7/6/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Background Location	7/6/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	NN1 - Northwest	7/7/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	NN2 - Southwest	7/7/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	NN3 - Southeast	7/7/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	NN4 - Northeast	7/7/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Background Location	7/7/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	NN1 - Northwest	7/10/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN2 - Southwest	7/10/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN3 - Southeast	7/10/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN4 - Northeast	7/10/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Background Location	7/10/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN1 - Northwest	7/11/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN2 - Southwest	7/11/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN3 - Southeast	7/11/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN4 - Northeast	7/11/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Background Location	7/11/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN1 - Northwest	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN2 - Southwest	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN3 - Southeast	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN4 - Northeast	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/17/06

**TABLE 11-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Ambient Air Particulate Matter Sampling	Background Location	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN1 - Northwest	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN2 - Southwest	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN3 - Southeast	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN4 - Northeast	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Background Location	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN1 - Northwest	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN2 - Southwest	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN3 - Southeast	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN4 - Northeast	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Background Location	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	NN1 - Northwest	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	NN2 - Southwest	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	NN3 - Southeast	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	NN4 - Northeast	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Background Location	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06

**TABLE 11-2
PCB DATA RECEIVED DURING JULY 2006**

**SOIL SAMPLING
NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)**

Sample ID	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
A1906-1	7/7/06	ND(0.035)	0.27	ND(0.035)	0.27
A3005-1	7/7/06	ND(0.038)	0.25	ND(0.038)	0.25

Notes:

1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of PCBs and TCLP constituents.
2. Please refer to Table 11-3 for a summary of TCLP constituents.
3. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.

**TABLE 11-3
TCLP DATA RECEIVED DURING JULY 2006**

**SOIL SAMPLING
NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Sample ID: Date Collected:	TCLP Regulatory Limits	A1906-1 7/7/2006	A3005-1 7/7/2006
Volatile Organics				
1,1-Dichloroethene		0.7	ND(0.010)	ND(0.010)
1,2-Dichloroethane		0.5	ND(0.010)	ND(0.010)
2-Butanone		200	ND(0.25)	0.012 J
Benzene		0.5	0.011	0.35
Carbon Tetrachloride		0.5	ND(0.010)	ND(0.010)
Chlorobenzene		100	ND(0.010)	ND(0.010)
Chloroform		6	ND(0.010)	ND(0.010)
Tetrachloroethene		0.7	ND(0.010)	ND(0.010)
Trichloroethene		0.5	0.012	0.077
Vinyl Chloride		0.2	ND(0.010)	ND(0.010)
Semivolatile Organics				
1,4-Dichlorobenzene		7.5	ND(0.010)	ND(0.010)
2,4,5-Trichlorophenol		400	ND(0.010)	ND(0.010)
2,4,6-Trichlorophenol		2	ND(0.010)	ND(0.010)
2,4-Dinitrotoluene		0.13	ND(0.010)	ND(0.010)
Cresol		200	ND(0.010)	ND(0.010)
Hexachlorobenzene		0.13	ND(0.010)	ND(0.010)
Hexachlorobutadiene		0.5	ND(0.010)	ND(0.010)
Hexachloroethane		3	ND(0.010)	ND(0.010)
Nitrobenzene		2	ND(0.010)	ND(0.010)
Pentachlorophenol		100	ND(0.050)	ND(0.050)
Pyridine		5	ND(0.010)	ND(0.010)
Inorganics				
Arsenic		5	ND(0.200)	ND(0.200)
Barium		100	0.723 B	0.604 B
Cadmium		1	ND(0.100)	ND(0.100)
Chromium		5	0.00340 B	0.00430 B
Lead		5	0.0351 B	0.0180 B
Mercury		0.2	ND(0.000570)	ND(0.000570)
Selenium		1	ND(0.200)	ND(0.200)
Silver		5	ND(0.100)	ND(0.100)

Notes:

1. Sample was collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of PCBs and TCLP constituents.
2. Please refer to Table 11-2 for a summary of PCBs.
3. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.

Data Qualifiers:

Organics (volatiles, semivolatiles)

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

Inorganics

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

**TABLE 11-4
 AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING JULY 2006¹**

**PARTICULATE AMBIENT AIR CONCENTRATIONS
 NEWELL STREET AREA II
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Date ²	Sampler Location	Average Site Concentration (mg/m ³)	Background Site Concentration (mg/m ³)	Average Period (Hours:Min)	Predominant Wind Direction
7/5/06	NN1 - Northwest	0.021*	0.021*	10:30	WNW
	NN2 - Southwest	0.017*		10:30	
	NN3 - Southeast	0.020*		10:30	
	NN4 - Northeast	0.021*		10:30	
7/6/06	NN1 - Northwest	0.010*	0.006*	11:45	WNW
	NN2 - Southwest	0.011*		11:45	
	NN3 - Southeast	0.009*		11:30	
	NN4 - Northeast	0.006*		11:30	
7/7/06	NN1 - Northwest	0.012*	0.008*	11:45	WNW
	NN2 - Southwest	0.013*		11:30	
	NN3 - Southeast	0.013*		10:45	
	NN4 - Northeast	0.010*		11:00	
7/10/06	NN1 - Northwest	0.033*	0.056*	11:15	Variable
	NN2 - Southwest	0.029*		11:15	
	NN3 - Southeast	0.038*		11:15	
	NN4 - Northeast	0.032*		11:15	
7/11/06	NN1 - Northwest	0.071*	0.070*	10:30	NNW, WNW
	NN2 - Southwest	0.053*		10:45	
	NN3 - Southeast	0.065*		10:45	
	NN4 - Northeast	0.073*		11:00	
7/12/06	NN1 - Northwest	0.054*	0.040*	11:15	Calm
	NN2 - Southwest	0.056*		11:15	
	NN3 - Southeast	0.055*		11:15	
	NN4 - Northeast	0.055*		11:15	
7/13/06	NN1 - Northwest	0.002*	0.007*	10:45	NNE, W
	NN2 - Southwest	0.008*		10:45	
	NN3 - Southeast	0.004*		11:00	
	NN4 - Northeast	0.002*		11:15	
7/14/06	NN1 - Northwest	0.023*	0.021*	11:30	WNW
	NN2 - Southwest	0.025*		11:30	
	NN3 - Southeast	0.025*		11:15	
	NN4 - Northeast	0.023*		11:15	
7/17/06	NN1 - Northwest	0.020*	0.013*	10:45	Variable
	NN2 - Southwest	0.019*		10:30	
	NN3 - Southeast	0.022*		11:00	
	NN4 - Northeast	0.021*		10:45	
Notification Level		0.120			

Notes:

* Measured with DR-2000 or DR-4000. All other measured with pDR-1000.

Newell Street Area II remediation completed July 17, 2006.

Background monitoring station is located east of Building 9B, between 9B and New York Avenue.

Predominant wind direction determined using hourly wind direction data from the Pittsfield Municipal Airport Weather Station.

¹ Monitoring was performed only on days when site activities occurred.

² The particulate monitors obtain real-time data. The sampling data were obtained by BEC on the sampling date.

**ITEM 12
FORMER OXBOW AREAS J & K
(GECD420)
JULY 2006**

* All activities described below for this item were conducted pursuant to the Consent Decree.

a. Activities Undertaken/Completed

- Initiated and completed soil remediation actions.
- Conducted air monitoring for particulates and PCBs in connection with remediation actions, as identified in Table 12-1.

b. Sampling/Test Results Received

See attached tables.

c. Work Plans/Reports/Documents Submitted

- Submitted revision to Addendum to Final RD/RA Work Plan to EPA, which contained revised Figure 4 (Preliminary Soil-Related Response Actions) (July 6, 2006).
- Submitted analytical data for proposed backfill and topsoil sources to EPA (July 10, 2006).

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

Submit Addendum to Supplemental Information Package showing modified vegetation restoration plans as agreed with property owners.

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

Received EPA conditional approval of GE's June 15, 2006 Supplemental Information Package for Former Oxbow Areas A and C, Former Oxbow Areas J and K, and Lyman Street Area – Properties West of Lyman Street (July 7, 2006).

**TABLE 12-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**FORMER OXBOW AREAS J & K
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Ambient Air Particulate Matter Sampling	K1	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	K1	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Background Location	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	K1	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Background Location	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	K1	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	J3	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Background Location	7/17/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	K1	7/18/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	J3	7/18/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Background Location	7/18/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	K1	7/19/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	J3	7/19/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	J4	7/19/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	J5	7/19/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Background Location	7/19/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	J3	7/20/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	J4	7/20/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	J5	7/20/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Background Location	7/20/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	J3	7/21/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	J4	7/21/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	J5	7/21/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	Background Location	7/21/06	Air	Berkshire Environmental	Particulate Matter	7/24/06
Ambient Air Particulate Matter Sampling	J2	7/24/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	J3	7/24/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	J4	7/24/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	J5	7/24/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	Background Location	7/24/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	J2	7/25/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	J3	7/25/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	J4	7/25/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	Background Location	7/25/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	J2	7/26/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	J3	7/26/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	J4	7/26/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	Background Location	7/26/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	J2	7/27/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	J3	7/27/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	J4	7/27/06	Air	Berkshire Environmental	Particulate Matter	8/1/06

**TABLE 12-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**FORMER OXBOW AREAS J & K
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Ambient Air Particulate Matter Sampling	Background Location	7/27/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	J2	7/28/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	J3	7/28/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	J4	7/28/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
Ambient Air Particulate Matter Sampling	Background Location	7/28/06	Air	Berkshire Environmental	Particulate Matter	8/1/06
PCB Ambient Air Sampling	Field Blank	7/06 - 7/07/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	J3	7/06 - 7/07/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	J3-CO (colocated)	7/06 - 7/07/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	J5	7/06 - 7/07/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	K1	7/06 - 7/07/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	Background - Longfellow Avenue	7/06 - 7/07/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	Field Blank	7/08 - 7/09/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	J3	7/08 - 7/09/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	J3-CO (colocated)	7/08 - 7/09/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	J5	7/08 - 7/09/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	K1	7/08 - 7/09/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	Background - Longfellow Avenue	7/08 - 7/09/06	Air	Berkshire Environmental	PCB	7/20/06
PCB Ambient Air Sampling	Field Blank	7/13 - 7/14/06	Air	Berkshire Environmental	PCB	7/21/06
PCB Ambient Air Sampling	J3	7/13 - 7/14/06	Air	Berkshire Environmental	PCB	7/21/06
PCB Ambient Air Sampling	J3-CO (colocated)	7/13 - 7/14/06	Air	Berkshire Environmental	PCB	7/21/06
PCB Ambient Air Sampling	J5	7/13 - 7/14/06	Air	Berkshire Environmental	PCB	7/21/06
PCB Ambient Air Sampling	K1	7/13 - 7/14/06	Air	Berkshire Environmental	PCB	7/21/06
PCB Ambient Air Sampling	Background - Longfellow Avenue	7/13 - 7/14/06	Air	Berkshire Environmental	PCB	7/21/06

TABLE 12-2
AMBIENT AIR PCB DATA RECEIVED DURING JULY 2006

BACKGROUND PCB AMBIENT AIR CONCENTRATIONS
FORMER OXBOW AREAS J AND K
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sampling Event Period	Date Analytical Results Received by BEC, Inc.	Field Blank (µg/PUF)	J3 (µg/m3)	J3-CO (colocated) (µg/m3)	J5 (µg/m3)	K1 (µg/m3)	Background - Longfellow Avenue (µg/m3)
7/06 - 7/07/06	7/17/06	ND (<0.10)	0.0008 J	0.0010 J	0.0013 J	0.0006 J	0.0029 J
7/08 - 7/09/06	7/18/06	ND (<0.10)	0.0007 J	0.0016 J	0.0022 J	0.0026 J	0.0006 J
Notification Level		0.05	0.05	0.05	0.05	0.05	0.05

Notes:

ND - Non-Detect

J - Detected sample results were qualified as estimated.

- Preliminary data review was conducted based on the following data quality indicators associated with the tabulated dataset above: sampling collection time, sampling calibration check, temperature receipt, associated blanks, laboratory control samples recoveries, and surrogate recoveries.

Qualification Notes:

1. Samples collect from 07/06 to 07/07/06 were qualified as estimated due to laboratory not recording the temperature of the PUF upon receipt. The temperature of the temperature blank was recorded as less than 4°C.
2. Samples collect from 07/08 to 07/09/06 were qualified as estimated due to the PUF receipt temperature greater than 4 °C (PUF temperature 22.4°C). The temperature of the temperature blank was recorded as less than 4°C.

**TABLE 12-3
 AMBIENT AIR PCB DATA RECEIVED DURING JULY 2006**

**PCB AMBIENT AIR CONCENTRATIONS
 FORMER OXBOW AREAS J AND K
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Event Period	Date Analytical Results Received by BEC, Inc.	Field Blank (µg/PUF)	J3 (µg/m3)	J3-CO (colocated) (µg/m3)	J5 (µg/m3)	K1 (µg/m3)	Background - Longfellow Avenue (µg/m3)
7/13 - 7/14/06	7/21/06	ND (<0.10) J	0.0013J	0.0012J	0.0051J	0.0012J	0.0048J
Notification Level		0.05	0.05	0.05	0.05	0.05	0.05

Notes:

ND - Non-Detect

J - Detected sample results were qualified as estimated.

- Preliminary data review was conducted based on the following data quality indicators associated with the tabulated dataset above: sampling collection time, sampling calibration check, temperature receipt, associated blanks, laboratory control samples recoveries, and surrogate recoveries.

Qualification Notes:

1. Samples were qualified as estimated due to laboratory not recording the temperature of the PUF upon receipt.

**TABLE 12-4
 AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING JULY 2006¹**

**PARTICULATE AMBIENT AIR CONCENTRATIONS
 FORMER OXBOW AREAS J & K
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Date ²	Sampler Location	Average Site Concentration (mg/m ³)	Background Site Concentration (mg/m ³)	Average Period (Hours:Min)	Predominant Wind Direction
7/12/06	K1	0.055*	NA ³	6:00 ⁴	Calm
7/13/06	K1	0.030*	0.015*	10:45	NNE, W
7/14/06	K1	0.066*	0.019*	11:00	WNW
7/17/06 ⁵	K1	0.071*	0.011*	11:30	Variable
	J3	0.035		11:00	
7/18/06	K1	0.069*	0.011*	8:45 ⁴	WNW
	J3	0.026		10:30	
7/19/06 ⁵	K1	0.023	0.011*	11:15	Calm
	J3	0.024*		11:00	
	J4	0.019*		11:00	
	J5	0.019*		11:00	
7/20/06 ⁵	J3	0.014*	0.009*	5:45 ⁴	Calm
	J4	0.020*		10:30	
	J5	0.020*		10:15	
7/21/06	J3	0.045*	0.033*	11:15	Variable
	J4	0.055*		11:15	
	J5	0.044*		11:15	
7/24/06 ⁵	J2	0.011*	0.005*	5:45 ⁵	Variable
	J3	0.014*		11:30	
	J4	0.013*		11:30	
	J5	0.009*		5:15 ⁶	
7/25/06	J2	0.031*	0.027*	10:30	SSW
	J3	0.035*		10:30	
	J4	0.042*		10:30	
7/26/06	J2	0.049*	0.043*	11:30	Variable
	J3	0.050*		11:30	
	J4	0.064*		11:30	
7/27/06	J2	0.088*	0.070*	12:00	SSW
	J3	0.086*		12:00	
	J4	0.101*		12:00	
7/28/06	J2	0.040*	0.035*	11:15	SSW
	J3	0.041*		11:30	
	J4	0.041*		11:15	
Notification Level ²		0.120			

Notes:

* Measured with DR-2000 or DR-4000. All other measured with pDR-1000.

Background monitoring location at 15 Longfellow Avenue in Pittsfield

Predominant wind direction determined using hourly wind direction data from the Pittsfield Municipal Airport Weather Station.

¹ Monitoring was performed only on days when site activities occurred.

² The particulate monitors obtain real-time data. The sampling data were obtained by BEC on the sampling date.

³ Data not available due to equipment malfunction.

⁴ Sampling period was shortened due to equipment malfunction.

⁵ Monitoring locations changed due to progression of site activities.

⁶ Sampling period was shortened due to mid-day switch of sampling locations.

**ITEM 13
HOUSATONIC RIVER AREA
UPPER ½ MILE REACH
(GECD800)
JULY 2006**

* All activities described below for this item were conducted pursuant to the Consent Decree.

a. Activities Undertaken/Completed

Installed three seepage meters in the river in support of upcoming total organic carbon (TOC) evaluation and report (July 19, 2006).

b. Sampling/Test Results Received

None

c. Work Plans/Reports/Documents Submitted

Submitted draft report on June 2006 bank erosion inspection to EPA (July 14, 2006).

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

- Perform 2006 restored banks vegetation inspection (August 23, 2006).
- Perform 2006 aquatic habitat enhancement structure inspection (August 24, 2006).

e. General Progress/Unresolved Issues/Potential Schedule Impacts

Issues relating to TOC content in isolation layer remain unresolved. EPA and GE have agreed that GE's report on those issues will be deferred until after the seepage meter data are available. The Final Completion Report for Upper ½ Mile Reach Removal Action will be submitted following resolution of those issues.

f. Proposed/Approved Work Plan Modifications

None

**ITEM 14
HOUSATONIC RIVER AREA
1½ MILE REACH
(GEC820)
JULY 2006**

(Note: This item is limited to activities conducted by GE and does not include EPA's work on the 1½ Mile Reach Removal Action)

a. Activities Undertaken/Completed

On July 26, 2006, BBL (on GE's behalf) performed a round of water column monitoring at 10 locations along the Housatonic River between Coltsville, MA and Great Barrington, MA. Two of these locations are situated in the 1½ Mile Reach: Lyman Street Bridge (Location 4) and Pomeroy Avenue Bridge (Location 6A). A composite grab sample was collected at each location and submitted to Northeast Analytical for analysis of PCBs (total), TSS, POC, and chlorophyll-a, as identified in Table 14-1. (The other eight locations are discussed under Items 15 and 20 below.)

b. Sampling/Test Results Received

See attached tables.

c. Work Plans/Reports/Documents Submitted

None

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

Continue Housatonic River monthly water column monitoring.

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

None

**TABLE 14-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**HOUSATONIC RIVER - 1-1/2 MILE REACH
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Monthly Water Column Sampling	Location-4	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	Location-4	6/27/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	7/13/06
Monthly Water Column Sampling	Location-6A	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	Location-6A	6/27/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	7/13/06

**TABLE 14-2
SAMPLE DATA RECEIVED DURING JULY 2006**

**MONTHLY WATER COLUMN SAMPLING
HOUSATONIC RIVER - 1 1/2 MILE REACH
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Sample ID	Location	Date Collected	Aroclor-1016, -1221, -1232, -1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs	POC	TSS	Chlorophyll (a)
LOCATION-4	Lyman Street Bridge	6/27/06	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	0.585	6.20	0.0016
LOCATION-6A	Pomeroy Ave. Bridge	6/27/06	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	0.533	6.50	0.0012

Notes:

1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to Northeast Analytical, Inc. for analysis of unfiltered PCBs, total suspended solids (TSS), particulate organic carbon (POC), and chlorophyll (a).
2. Sampling methods involved the collection of composite grab samples at each location, representative of three stations (25, 50, and 75 percent of the total river width at each location) at 50 percent of the total river depth at each station.
3. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.

ITEM 15
HOUSATONIC RIVER AREA
REST OF THE RIVER
(GECD850)
JULY 2006

a. Activities Undertaken/Completed

- On July 26, 2006, BBL (on GE's behalf) performed a round of water column monitoring at 10 locations along the Housatonic River between Coltsville and Great Barrington, MA. Two locations are situated in the 1½ Mile Reach of the Housatonic River and were discussed in Item 14. One location is at the outlet of Silver Lake and is discussed in Item 20 below. Of the remaining seven locations, two are located upstream of the 1½ Mile Reach: Hubbard Avenue Bridge (Location 1) and Newell Street Bridge (Location 2). The five remaining locations are situated in the Rest of the River: Holmes Road Bridge (Location 7); New Lenox Road Bridge (Location 9); Woods Pond Headwaters (Location 10); Schweitzer Bridge (Location 12); and Division Street Bridge (Location 13). Sampling activities were performed at these locations on July 26, 2006 from downstream to upstream. Composite grab samples were collected at each location sampled and submitted to Northeast Analytical for analysis of PCBs (total), TSS, POC, and chlorophyll-a, as identified in Table 15-1.
- Attended meeting with EPA for transfer of its fate, transport, and bioaccumulation model to GE (July 6, 2006).*

b. Sampling/Test Results

See attached tables.

c. Work Plans/Reports/Documents Submitted

Submitted letter to Lead Administrative Trustee (LAT) providing notice of GE's intent to place riprap in an area adjacent to Woods Pond Dam in summer or fall 2006 (July 24, 2006).*

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

- Continue Housatonic River monthly water column monitoring.
- Prepare design drawings for installation of replacement gate at Rising Pond Dam.*
- Submit plan to EPA and LAT for placement of riprap in an area adjacent to Woods Pond Dam.*

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

**ITEM 15
(cont'd)
HOUSATONIC RIVER AREA
REST OF THE RIVER
(GECD850)
JULY 2006**

f. Proposed/Approved Work Plan Modifications

None

**TABLE 15-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**HOUSATONIC RIVER - REST OF RIVER
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Monthly Water Column Sampling	HR-D1 (Location-12)	6/27/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	7/13/06
Monthly Water Column Sampling	HR-D1 (Location-12)	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	Location-1	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	Location-1	6/27/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	7/13/06
Monthly Water Column Sampling	Location-10	6/27/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	7/13/06
Monthly Water Column Sampling	Location-10	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	Location-12	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	Location-12	6/27/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	7/13/06
Monthly Water Column Sampling	Location-13	6/27/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	7/13/06
Monthly Water Column Sampling	Location-13	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	Location-2	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	Location-2	6/27/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	7/13/06
Monthly Water Column Sampling	Location-7	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	Location-7	6/27/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	7/13/06
Monthly Water Column Sampling	Location-9	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	Location-9	6/27/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	7/13/06

Note:

1. Field duplicate sample locations are presented in parenthesis.

**TABLE 15-2
SAMPLE DATA RECEIVED DURING JULY 2006**

**MONTHLY WATER COLUMN SAMPLING
HOUSATONIC RIVER - REST OF RIVER
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Sample ID	Location	Date Collected	Aroclor-1016, -1221, -1232, -1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs	POC	TSS	Chlorophyll (a)
LOCATION-1	Hubbard Avenue Bridge	6/27/06	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	0.426	2.90	0.0015
LOCATION-2	Newell Street Bridge	6/27/06	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	0.480	4.80	0.0011
LOCATION-7	Holmes Road Bridge	6/27/06	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	0.0000500 AG	0.0000500	0.492	5.70	0.0016
LOCATION-9	New Lenox Road Bridge	6/27/06	ND(0.0000220)	0.0000290 PE	0.0000290 AF	0.0000500 AG	0.000108	0.734	11.0	0.0032
LOCATION-10	Headwaters of Woods Pond	6/27/06	ND(0.0000220)	0.0000300 PE	0.0000320 AF	0.0000490 AG	0.000111	0.475	7.30	0.0020
LOCATION-12	Schweitzer Bridge	6/27/06	ND(0.0000220)	0.0000300 PE	0.0000340 AF	0.0000580 AG	0.000122	0.517	4.20	0.0024
		6/27/06	[ND(0.0000220)]	[0.0000380 PE]	[0.0000430 AF]	[0.0000740 AG]	[0.000155]	[0.648]	[5.70]	[0.0023]
LOCATION-13	Division Street Bridge	6/27/06	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	0.751	10.4	0.0028

Notes:

1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to Northeast Analytical, Inc. for analysis of unfiltered PCBs, total suspended solids (TSS), particulate organic carbon (POC), and chlorophyll (a).
Sampling methods involved the collection of composite grab samples at each location, representative of three stations (25, 50, and 75 percent of the total river width at each location) at 50 percent of the total river depth at each station.
- 2.
- 3.
4. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.
Field duplicate sample results are presented in brackets.

Data Qualifiers:

AF - Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AG - Aroclor 1260 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PE - Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCBs present in a sample that has undergone environmental alteration.

**ITEMS 16 & 17
HOUSATONIC RIVER FLOODPLAIN
RESIDENTIAL AND NON-RESIDENTIAL
PROPERTIES ADJACENT TO 1½-MILE REACH
(GEC710 AND GEC720)
JULY 2006**

* All activities described below for this item were conducted pursuant to the Consent Decree.

a. Activities Undertaken/Completed

- Continued final restoration activities at certain Phase 3 floodplain properties.
- Completed soil removal actions at the Phase 4 floodplain properties (except tree planting and final restoration, scheduled to be completed Fall 2006).
- Conducted ambient air monitoring for particulates at the Phase 4 floodplain properties, as identified in Table 16&17-1.

b. Sampling/Test Results Received

See attached tables.

c. Work Plans/Reports/Documents Submitted

Submitted report on May 2006 inspection of backfilled/restored areas at Phase 3 floodplain properties (July 6, 2006).

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

Continue work on Final Completion Reports for Phase 1 and 2 floodplain properties and for Phase 3 floodplain properties.

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

None

**TABLE 16&17-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**FLOODPLAIN RESIDENTIAL AND NON-RESIDENTIAL PROPERTIES ADJACENT TO 1-1/2 MILE REACH
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Ambient Air Particulate Matter Sampling	4A-1	7/5/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Background Location	7/5/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	4A-1	7/6/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Background Location	7/6/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	4A-1	7/7/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	Background Location	7/7/06	Air	Berkshire Environmental	Particulate Matter	7/10/06
Ambient Air Particulate Matter Sampling	4A-1	7/10/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Background Location	7/10/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	4A-1	7/11/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Background Location	7/11/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	4A-1	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Background Location	7/12/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	4A-1	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Background Location	7/13/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	4A-1	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/17/06
Ambient Air Particulate Matter Sampling	Background Location	7/14/06	Air	Berkshire Environmental	Particulate Matter	7/17/06

**TABLE 16&17-2
 AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING JULY 2006⁴**

**PARTICULATE AMBIENT AIR CONCENTRATIONS
 FLOODPLAIN RESIDENTIAL AND NON-RESIDENTIAL PROPERTIES ADJACENT TO 1-1/2 MILE REACH
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**

Sampling Date ²	Sampler Location	Average Site Concentration (mg/m ³)	Background Site Concentration (mg/m ³)	Average Period (Hours:Min)	Predominant Wind Direction
7/5/06	4A-1	0.013*	0.022*	10:30	WNW
7/6/06	4A-1	0.005*	0.007*	11:15	WNW
7/7/06	4A-1	0.007*	0.010*	10:15	WNW
7/10/06	4A-1	0.026*	0.034*	11:15	Variable
7/11/06	4A-1	0.041*	0.074*	11:45	NNW, WNW
7/12/06	4A-1	0.047*	NA ³	11:15	Calm
7/13/06	4A-1	0.006*	0.015*	10:15	NNE, W
7/14/06	4A-1	0.013*	0.019*	11:45	WNW
Notification Level		0.120			

Notes:

* Measured with DR-2000 or DR-4000. All other measured with pDR-1000.

Phase 4 Floodplain Properties remediation completed July 14, 2006.

Background monitoring location at 15 Longfellow Avenue in Pittsfield

Predominant wind direction determined using hourly wind direction data from the Pittsfield Municipal Airport Weather Station.

¹ Monitoring was performed only on days when site activities occurred.

² The particulate monitors obtain real-time data. The sampling data were obtained by BEC on the sampling date.

³ Data not available due to equipment malfunction.

**ITEM 18
HOUSATONIC RIVER FLOODPLAIN
CURRENT RESIDENTIAL PROPERTIES
DOWNSTREAM OF CONFLUENCE
(ACTUAL/POTENTIAL LAWNS)
(GEC730)
JULY 2006**

a. Activities Undertaken/Completed

None

b. Sampling/Test Results Received

None

c. Work Plans/Reports/Documents Submitted

None

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

None

e. General Progress/Unresolved Issues/Potential Schedule Impacts

Awaiting EPA approval of GE's Pre-Design Investigation Work Plan (submitted on February 26, 2002). (Based on discussions with EPA, this pre-design sampling will be deferred for some period of time.)*

f. Proposed/Approved Work Plan Modifications

None

**ITEM 19
ALLENDALE SCHOOL PROPERTY
(GEC500)
JULY 2006**

a. Activities Undertaken/Completed

None

b. Sampling/Test Results Received

None

c. Work Plans/Reports/Documents Submitted

None

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

Receive results from outdoor air monitoring conducted by EPA, as well as results from indoor sampling conducted by the Massachusetts Department of Public Health at Allendale School.

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

None

**ITEM 20
OTHER AREAS
SILVER LAKE AREA
(GECD600)
JULY 2006**

* All activities described below for this item were conducted pursuant to the Consent Decree.

a. Activities Undertaken/Completed

On July 26, 2006, BBL (on GE's behalf) performed a round of water column monitoring at 10 locations along the Housatonic River between Coltsville and Great Barrington, MA. One location was at the outlet of Silver Lake (Location 4A). A grab sample was collected and submitted to Northeast Analytical for analysis of PCBs (total) and TSS, as identified in Table 20-1. (The other nine locations were discussed under Items 14 and 15 above.)

b. Sampling/Test Results Received

See attached tables.

c. Work Plans/Reports/Documents Submitted

None

d. Upcoming Scheduled Activities (next six weeks)

- Submit revised Pilot Study Work Plan for Silver Lake Sediments (due to EPA by August 17, 2006).
- Select Remediation Contractor for Pilot Study and initiate implementation of Pilot Study.
- Prepare and submit next Pre-Design Investigation Report for Soils at properties adjacent to Silver Lake (due to EPA by September 11, 2006).

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

Received EPA approval of GE's June 2006 Pilot Study Work Plan for Silver Lake Sediments (July 18, 2006).

**TABLE 20-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**SILVER LAKE AREA
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Depth (feet)	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Additional PDI Soil Sampling	I9-9-24-SB-2-SES	6/8/06	13-15	Soil	SGS	Cadmium, Chromium and Copper	7/12/06
Additional PDI Soil Sampling	I9-9-24-SB-2-SES	6/8/06	9-11	Soil	SGS	Cadmium, Chromium and Copper	7/12/06
Monthly Water Column Sampling	Location-4A	6/27/06	NA	Water	NEA	PCB, TSS	7/7/06
Monthly Water Column Sampling	Location-4A	7/26/06	NA	Water	NEA	PCB, TSS	

**TABLE 20-2
SAMPLE DATA RECEIVED DURING JULY 2006**

**MONTHLY WATER COLUMN SAMPLING
SILVER LAKE AREA
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Sample ID	Location	Date Collected	Aroclor-1016, -1232, -1242	Aroclor 1221	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs	TSS
LOCATION-4A	Silver Lake Outlet	6/27/06	ND(0.0000220)	0.000230 PB	0.000096 PE	0.000035 AF	ND(0.0000220)	0.000361	2.94

Notes:

1. Sample was collected by BBL, an ARCADIS company (BBL), and submitted to Northeast Analytical, Inc. for analysis of unfiltered PCBs and total suspended solids (TSS).
2. Sampling methods involved the collection of single grab 50 percent of the total river width, and 50 percent of the total river depth.
3. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.

Data Qualifiers:

AF - Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB - Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCBs present in a sample that has undergone environmental alteration.

PE - Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCBs present in a sample that has undergone environmental alteration.

**TABLE 20-3
DATA RECEIVED DURING JULY 2006**

**ADDITIONAL PRE-DESIGN INVESTIGATION SOIL SAMPLING
SILVER LAKE AREA
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)**

Parameter	Sample ID: Sample Depth (Feet): Date Collected:	I9-9-24-SB-2-SES 9-11 06/08/06	I9-9-24-SB-2-SES 13-15 06/08/06
Inorganics			
Cadmium		7.14	ND(1.71)
Chromium		423	9.42
Copper		260	236

Notes:

1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of cadmium, chromium and copper,
2. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.

ITEM 21
GROUNDWATER MANAGEMENT AREAS
PLANT SITE 1 (GMA 1)
(GECD310)
JULY 2006

* All activities described below for this item were conducted pursuant to the Consent Decree.

a. Activities Undertaken/Completed

General:

- Conducted routine groundwater elevation and NAPL monitoring activities.
- Conducted wipe sampling of Parratt-Wolff augers from well installations, as identified in Table 21-1.

East Street Area 1-North and South:

- Continued automated groundwater and NAPL pumping at North Side and South Side Caissons. Approximately 3.0 gallons of LNAPL were recovered from the North Side Caisson in July. No LNAPL was recovered from the South Side Caisson in July.
- Continued routine well monitoring and manual NAPL removal activities. No LNAPL was removed from this area during July.

East Street Area 2-South:

- Continued automated groundwater and LNAPL removal activities. A total of approximately 4,521,129 gallons of groundwater was recovered from pumping systems 64R, 64S, 64V, 64X, RW-1(S), RW-1(X), and RW-2(X). In addition, approximately 1,325 gallons of LNAPL were removed from pumping systems 64R, 64V, RW-1(S), RW-1(X), 64X, and 64S Caisson.
- Continued automated DNAPL removal activities. Approximately 28 gallons of DNAPL were removed from pumping system RW-3(X) during July.
- Continued routine well monitoring and manual NAPL removal activities. Approximately 12.781 liters (3.372 gallons) of LNAPL were removed from wells in this area during July. Approximately 5.121 liters (1.351 gallons) of DNAPL were removed from wells in this area during July.
- Treated/discharged 4,980,104 gallons of water through 64G Groundwater Treatment Facility.
- Decommissioned wells 95-4 and 95-7 and installed/developed replacement wells 95-4R and 95-7R.

**ITEM 21
(cont'd)
GROUNDWATER MANAGEMENT AREAS
PLANT SITE 1 (GMA 1)
(GEC310)
JULY 2006**

a. Activities Undertaken/Completed (cont'd)

East Street Area 2-North:

- Continued well monitoring and NAPL removal activities. No LNAPL was recovered from this area during July.

20s, 30s, and 40s Complexes:

- Continued well monitoring and NAPL removal activities. No LNAPL was recovered from this area during July.

Lyman Street Area:

- Abandoned 16 wells, as approved by EPA in its July 6, 2006 conditional approval letter to GE (referenced in Item 21.f below). Wells LS-11, LS-22, and LSSC-02 were not located and presumed to be destroyed. Well RW-1 contained pumping apparatus and will be decommissioned after it is removed.
- Continued automated groundwater and NAPL removal activities. A total of approximately 206,016 gallons of groundwater was recovered from pumping systems RW-1R, RW-2, and RW-3. No LNAPL was removed from the automated recovery systems during July.
- Continued routine well monitoring and NAPL removal activities. Approximately 2.179 liters (0.575 gallon) of DNAPL were removed from wells in this area during July. No LNAPL was removed from wells in this area during July.

Newell Street Area II:

- Continued routine well monitoring and NAPL removal activities. Approximately 0.989 liter (0.261 gallon) of DNAPL was recovered from this area during July. No LNAPL was recovered from this area during July.

Silver Lake Area:

- Continued routine monitoring of staff gauge in lake.

b. Sampling/Test Results Received

See attached tables.

ITEM 21
(cont'd)
GROUNDWATER MANAGEMENT AREAS
PLANT SITE 1 (GMA 1)
(GEC310)
JULY 2006

c. Work Plans/Reports/Documents Submitted

Submitted Groundwater Quality Monitoring Interim Report for Spring 2006 (July 28, 2006).

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

- Continue routine monitoring activities.
- Repair/replace wells that were damaged during Newell Street Area II Removal Action.
- Complete assembly of automated DNAPL recovery system for Newell Street Area II, and activate system.
- Conduct LNAPL bail-down test at well 25R.
- Remove/replace/modify selected wells on the 20s and 30s Complexes per GE's approved May 22, 2006 proposal.
- Submit NAPL Monitoring Report for Spring 2006 (due by August 31, 2006).
- Remove oil skimmer from well 40R and place it (or a new skimmer) in well GMA1-17W.

e. General Progress/Unresolved Issues/Potential Schedule Impacts

- The automated DNAPL recovery systems for Newell Street Area II were shut down on July 25, 2005 pursuant to EPA approval of GE's June 7 and 23, 2005 proposals. Each system was disconnected from the associated recovery wells and the System 1 control shed was removed. Pipelines scheduled for replacement have been drained and removed. Two replacement recovery wells (N2SC-1I(R) and N2SC-3I(R)) have been installed and developed. The upgraded recovery system is almost completed and is scheduled to be activated in August 2006.
- As discussed with EPA, GE will continue to monitor all remaining wells associated with the Newell Street Area II DNAPL recovery systems on a weekly basis and to remove DNAPL accumulations greater than 0.5 foot on a monthly basis until the upgraded recovery system is activated.

f. Proposed/Approved Work Plan Modifications

Received EPA conditional approval of GE's Spring 2005 and Fall 2005 NAPL Monitoring Reports (July 6, 2006).

**TABLE 21-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Auger Wipe Sampling from Replacing Monitoring Wells	PW-AUGER-W1	7/12/06	Wipe	SGS	PCB	7/14/06
Auger Wipe Sampling from Replacing Monitoring Wells	PW-AUGER-W2	7/12/06	Wipe	SGS	PCB	7/14/06
Auger Wipe Sampling from Replacing Monitoring Wells	PW-AUGER-W3	7/12/06	Wipe	SGS	PCB	7/14/06
Auger Wipe Sampling from Replacing Monitoring Wells	PWA-W1-2	7/18/06	Wipe	SGS	PCB	7/27/06
Auger Wipe Sampling from Replacing Monitoring Wells	PWA-W2-2	7/18/06	Wipe	SGS	PCB	7/27/06
Auger Wipe Sampling from Replacing Monitoring Wells	PWA-W3-2	7/18/06	Wipe	SGS	PCB	7/27/06
Auger Wipe Sampling from Replacing Monitoring Wells	PWA-W4-2	7/18/06	Wipe	SGS	PCB	7/27/06

**TABLE 21-2
PCB DATA RECEIVED DURING JULY 2006**

**AUGER WIPE SAMPLING FROM REPLACING MONITORING WELLS
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in $\mu\text{g}/100\text{cm}^2$)**

Sample ID	Date Collected	Aroclor-1016, -1221, -1232, -1242, -1248	Aroclor-1254	Aroclor-1260	Total PCBs
PW-Auger-W1	7/12/2006	ND(1.0)	14	7.8	21.8
PW-Auger-W2	7/12/2006	ND(5.0)	19	6.3	25.3
PW-Auger-W3	7/12/2006	ND(5.0)	28	18	46
PWA-W1-2	7/18/2006	ND(1.0)	14	4.9	18.9
PWA-W2-2	7/18/2006	ND(1.0)	2.1	ND(1.0)	2.1
PWA-W3-2	7/18/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
PWA-W4-2	7/18/2006	ND(1.0)	1.1	2.6	3.7

Notes:

1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of PCBs.
2. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.

**TABLE 21-3
 AUTOMATED LNAPL & GROUNDWATER RECOVERY SYSTEMS MONTHLY SUMMARY
 EAST STREET AREA 1 - NORTH & SOUTH
 GROUNDWATER MANAGEMENT AREA 1
 CONSENT DECREE MONTHLY STATUS REPORT
 GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
 July 2006**

Caisson	Month	Vol. LNAPL Collected (gallon)	Vol. Water Recovered (gallon)	Percent Downtime
Northside	July 2005	0.0	16,600	
	August 2005	1.0	16,000	
	September 2005	4.0	10,400	4.91
	October 2005	24.0	8,900	26.34
	November 2005	4.0	52,000	
	December 2005	12.0	33,900	
	January 2006	1.0	44,300	
	February 2006	1.0	27,700	
	March 2006	5.0	26,800	0.71
	April 2006	0.0	17,500	
	May 2006	0.0	20,500	
	June 2006	0.0	51,700	
	July 2006	3.0	18,500	
Southside	July 2005	0.0	45,800	
	August 2005	1.0	37,100	
	September 2005	9.0	56,300	4.91
	October 2005	4.0	71,000	4.91
	November 2005	2.0	96,600	
	December 2005	0.0	112,800	
	January 2006	15.0	98,400	
	February 2006	0.0	98,500	
	March 2006	3.0	121,500	0.71
	April 2006	12.0	76,200	
	May 2006	12.0	73,500	
	June 2006	0.0	160,900	
	July 2006	0.0	58,900	

TABLE 21-4
MEASUREMENT AND REMOVAL OF RECOVERABLE LNAPL
EAST STREET AREA 1 - NORTH & SOUTH
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006

Well Name	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	LNAPL Removed (liters)	July 2006 Removal (liters)
131	7/18/2006	4.97	4.92	0.05	0.008	0.008
34	7/18/2006	5.73	5.70	0.03	0.019	0.019

Total Manual LNAPL Removal for July 2006: 0.026 liters
0.007 gallons

Note:

1. ft BMP - feet Below Measuring Point.

**TABLE 21-5
ROUTINE WELL MONITORING
EAST STREET AREA 1 - NORTH & SOUTH
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006**

Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)
GMA 1 - East Street Area 1 - North									
52	999.26	7/18/06	4.91	---	0.00	---	12.96	0.00	994.35
131	1001.18	7/18/06	4.97	4.92	0.05	---	6.70	0.00	996.26
140	1000.30	7/18/06	7.53	---	0.00	---	15.30	0.00	992.77
ES1-08	1000.85	7/18/06	5.40	---	0.00	---	13.45	0.00	995.45
North Caisson	997.84	7/5/06	19.90	17.92	1.98	---	19.80	0.00	979.78
North Caisson	997.84	7/12/06	16.63	16.61	0.02	---	19.80	0.00	981.23
North Caisson	997.84	7/19/06	17.02	17.00	0.02	---	19.80	0.00	980.84
North Caisson	997.84	7/26/06	18.07	18.05	0.02	---	19.80	0.00	979.79
GMA 1 - East Street Area 1 - South									
31R	1,000.23	7/18/06	9.30	---	0.00	---	15.05	0.00	990.93
33	999.50	7/18/06	6.28	---	0.00	---	21.30	0.00	993.22
34	999.90	7/18/06	5.73	5.70	0.03	---	21.05	0.00	994.20
72	1000.62	7/18/06	6.50	---	0.00	---	21.96	0.00	994.12
72R	1000.92	7/18/06	6.48	---	0.00	---	13.31	0.00	994.44
South Caisson	1001.11	7/5/06	7.60	P	< 0.01	---	15.00	0.00	993.51
South Caisson	1001.11	7/12/06	10.40	P	< 0.01	---	15.00	0.00	990.71
South Caisson	1001.11	7/19/06	10.28	10.26	0.02	---	15.00	0.00	990.85
South Caisson	1001.11	7/26/06	12.81	12.78	0.03	---	15.00	0.00	988.33

Notes:

1. ft BMP - feet Below Measuring Point.
2. --- indicates LNAPL or DNAPL was not present in a measurable quantity.
3. P indicates that NAPL is present at a thickness < 0.01 feet, the corresponding thickness is recorded as such.

TABLE 21-6
AUTOMATED LNAPL/DNAPL & GROUNDWATER RECOVERY SYSTEMS
EAST STREET AREA 2 - SOUTH
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS
July 2006

Recovery System Location	Month	Oil Collected (gallon)	Water Recovered (gallon)	Percent Downtime
40R	July 2005	0		
	August 2005	0		
	September 2005	0		
	October 2005	0		
	November 2005	0		
	December 2005	0		
	January 2006	0		
	February 2006	0		
	March 2006	0		
	April 2006	0		
	May 2006	0		
	June 2006	0		
	July 2006	0		
64R	July 2005	225	260,800	
	August 2005	250	73,300	
	September 2005	50	10,200	4.91
	October 2005	75	492,200	10.71
	November 2005	125	988,100	
	December 2005	400	1,062,900	
	January 2006	400	896,700	
	February 2006	375	899,800	
	March 2006	150	170,611	0.71
	April 2006	75	375,609	
	May 2006	75	435,398	
	June 2006	550	720,359	
	July 2006	250	345,697	
64S System	July 2005	10	330,937	
	August 2005	218	271,691	13.73 - Maintenance
	September 2005	321	172,650	4.91
	October 2005	82	541,419	10.71
	November 2005	324	1,014,521	
	December 2005	170	927,871	
	January 2006	245	1,080,795	
	February 2006	673	1,304,005	
	March 2006	1,285	1,078,733	2.14
	April 2006	558	696,282	5.36
	May 2006	51	668,110	1.79
	June 2006	327	1,061,071	0.93
	July 2006	472	732,853	22.00
64V ¹	July 2005	465	922,700	
	August 2005	581	993,100	
	September 2005	349	714,700	4.91
	October 2005	564	933,400	4.91
	November 2005	515	1,304,100	
	December 2005	564	1,117,000	
	January 2006	697	1,208,800	
	February 2006	598	1,177,900	
	March 2006	315	1,251,800	0.71
	April 2006	249	901,800	
	May 2006	431	911,700	
	June 2006	697	1,228,300	
	July 2006	548	885,300	

TABLE 21-6
AUTOMATED LNAPL/DNAPL & GROUNDWATER RECOVERY SYSTEMS
EAST STREET AREA 2 - SOUTH
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS
July 2006

Recovery System Location	Month	Oil Collected (gallon)	Water Recovered (gallon)	Percent Downtime
64X	July 2005	15	417,600	3.45 - Maintenance
	August 2005	20	489,600	
	September 2005	25	403,200	
	October 2005	25	403,200	21.43
	November 2005	0	489,600	
	December 2005	6	417,600	
	January 2006	1	417,600	0.71
	February 2006	1	388,800	
	March 2006	1	504,000	
	April 2006	1	403,200	
	May 2006	83	403,200	
	June 2006	14	518,400	
	July 2006	28	388,800	
RW-2(X)	July 2005	0	747,100	4.91
	August 2005	0	982,100	
	September 2005	0	721,200	
	October 2005	0	529,600	
	November 2005	0	573,600	
	December 2005	0	491,800	
	January 2006	0	710,700	0.71
	February 2006	0	1,288,600	
	March 2006	0	1,081,726	
	April 2006	10	408,494	
	May 2006	0	652,543	
	June 2006	0	1,463,805	
	July 2006	0	1,076,551	
RW-1(S) ²	July 2005	17	813,490	1.96 - Maintenance
	August 2005	32	780,217	
	September 2005	4	527,699	
	October 2005	43	783,765	4.91
	November 2005	42	1,103,548	
	December 2005	40	900,898	
	January 2006	30	270,228	0.71
	February 2006	27	1,042,895	
	March 2006	40	1,049,702	
	April 2006	57	736,984	
	May 2006	77	744,621	
	June 2006	59	935,039	
	July 2006	28	722,887	
RW-1(X)	July 2005	0	109,800	4.91
	August 2005	0	142,000	
	September 2005	0	80,000	
	October 2005	0	299,300	
	November 2005	0	390,700	
	December 2005	0	324,500	
	January 2006	0	417,500	0.71
	February 2006	0	381,500	
	March 2006	0	119,720	
	April 2006	0	403,940	
	May 2006	0	385,828	
	July 2006	0	561,633	
	June 2006	0	369,041	

TABLE 21-6
AUTOMATED LNAPL/DNAPL & GROUNDWATER RECOVERY SYSTEMS
EAST STREET AREA 2 - SOUTH
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS
July 2006

Recovery System Location	Month	Oil Collected (gallon)	Water Recovered (gallon)	Percent Downtime
RW-3(X)	July 2005	44		11.76 - Maintenance
	August 2005	51		
	September 2005	40		
	October 2005	19		35.71
	November 2005	51		
	December 2005	31		5.88
	January 2006	27		
	February 2006	20		
	March 2006	36		
	April 2006	29		
	May 2006	29		
	June 2006	42		
	July 2006	28		

Summary of Total Automated Removal	
Water:	4,521,129 Gallons
LNAPL:	1,325 Gallons
DNAPL:	28 Gallons

Notes:

1. The flow meter at recovery well 64V was reset in December 2004.
2. The flow meter at recovery well RW-1(S) was reset in January 2006.
3. The flow meters at recovery wells RW-1(X), RW-2(X), 64X(W), and 64R were reset in March 2006.

**TABLE 21-7
WELL MONITORING AND RECOVERY OF LNAPL
EAST STREET AREA 2 - NORTH & SOUTH / 20s, 30s, & 40s COMPLEXES
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006**

Well Name	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	LNAPL Removed (liters)	July 2006 Removal (liters)
13	7/13/06	17.71	17.49	0.22	0.136	0.136
14	7/13/06	17.61	17.59	0.02	0.012	0.012
25R	7/13/06	24.39	19.46	4.93	3.045	3.045
26RR	7/14/06	21.00	20.68	0.32	0.198	0.198
48	7/14/06	17.40	15.32	2.08	1.285	1.285
50	7/14/06	10.70	10.13	0.57	0.352	0.352
55	7/14/06	17.02	16.24	0.78	0.482	0.482
95-04	7/12/06	16.29	14.29	2.00	1.24	1.240
95-07	7/11/06	22.60	18.95	3.65	2.26	2.260
GMA1-15	7/13/06	15.84	15.08	0.76	0.469	0.469
GMA1-16	7/13/06	13.68	13.03	0.65	0.401	0.401
GMA1-17W	7/13/06	16.54	14.50	2.04	1.260	1.260
GMA1-19	7/5/06	11.14	10.70	0.44	0.271	1.635
	7/12/06	11.85	11.00	0.85	0.524	
	7/19/06	12.05	11.40	0.65	0.401	
	7/25/06	11.95	11.24	0.71	0.438	
GMA1-24	7/13/06	10.70	10.69	0.01	0.006	0.006

**Total LNAPL Removal East Street Area 2 - South for July 2006: 12.781 liters
3.372 gallons**

**Total LNAPL Removal for July 2006: 12.781 liters
3.372 gallons**

Note:

1. ft BMP - feet Below Measuring Point.

TABLE 21-8
WELL MONITORING AND RECOVERY OF DNAPL
EAST STREET AREA 2 - NORTH & SOUTH / 20s, 30s, & 40s COMPLEXES
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006

Well Name	Date	Depth to Water (ft BMP)	Depth to DNAPL (ft BMP)	DNAPL Thickness (feet)	DNAPL Removed (liters)	July 2006 Removal (liters)
E2SC-03I	7/18/06	10.45	34.10	8.3	5.121	5.121

Total DNAPL Removal East Street Area 2 - South for July 2006: 5.121 liters
1.351 gallons

Total DNAPL Removal for July 2006: 5.121 liters
1.351 gallons

Note:

1. ft BMP - feet Below Measuring Point

TABLE 21-9
64G TREATMENT PLANT DISCHARGE DATA
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006

Date	Housatonic River Discharge (gallons)	Recharge Pond Discharge (gallons)	Total Discharge (gallons)
July 2005	3,212,250	389,015	3,601,265
August 2005	2,778,090	356,961	3,135,051
September 2005	2,537,520	335,710	2,873,230
October 2005	5,156,510	177,795	5,334,305
November 2005	5,221,180	163,951	5,385,131
December 2005	5,678,290	104,185	5,782,475
January 2006	6,317,250	89,159	6,406,409
February 2006	8,371,400	114,659	8,486,059
March 2006	5,301,850	200,184	5,502,034
April 2006	4,830,590	255,870	5,086,460
May 2006	5,110,840	263,791	5,374,631
June 2006	5,067,810	293,825	5,361,635
July 2006	4,631,550	348,554	4,980,104

After treatment, the majority of the water processed at GE's Building 64G groundwater treatment facility is discharged to the Housatonic River through NPDES permitted Outfall 005. However, as part of GE's overall efforts to contain NAPL within the site and to optimize NAPL recovery operations, a portion of the treated water discharged from the 64G facility is routed to GE's on-site recharge pond located in East Street Area 2-South.

TABLE 21-10
ROUTINE WELL MONITORING
EAST STREET AREA 2 - NORTH & SOUTH / 20s, 30s, & 40s COMPLEXES
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006

Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)
East Street Area 2 - North									
ES1-20	1,001.56	7/11/06	14.11	---	0.00	---	19.66	0.00	987.45
East Street Area 2 - South									
13	990.88	7/13/06	17.71	17.49	0.22	---	22.63	0.00	973.37
14	991.61	7/13/06	17.61	17.59	0.02	---	25.66	0.00	974.02
19	983.59	7/5/06	10.70	---	0.00	---	18.30	0.00	972.89
19	983.59	7/12/06	11.02	---	0.00	---	18.30	0.00	972.57
19	983.59	7/19/06	11.15	---	0.00	---	18.28	0.00	972.44
19	983.59	7/25/06	11.30	---	0.00	---	18.30	0.00	972.29
25R	998.31	7/13/06	24.39	19.46	4.93	---	30.79	0.00	978.50
26RR	1,000.58	7/14/06	21.00	20.68	0.32	---	28.50	0.00	979.88
40R	991.60	7/5/06	16.60	---	0.00	---	NM	0.00	975.00
40R	991.60	7/12/06	16.85	---	0.00	---	NM	0.00	974.75
40R	991.60	7/19/06	17.05	---	0.00	---	NM	0.00	974.55
40R	991.60	7/26/06	17.20	---	0.00	---	NM	0.00	974.40
48	992.39	7/14/06	17.40	15.32	2.08	---	22.69	0.00	976.92
49R	988.71	7/14/06	15.14	P	< 0.01	---	24.88	0.00	973.57
49RR	989.80	7/14/06	16.25	---	0.00	---	23.05	0.00	973.55
50	985.79	7/14/06	10.70	10.13	0.57	---	23.37	0.00	975.62
53	986.90	7/17/06	14.11	---	0.00	---	25.58	0.00	972.79
55	989.45	7/14/06	17.02	16.24	0.78	---	30.05	0.00	973.16
64R	993.37	7/5/06	15.54	15.50	0.04	---	20.50	0.00	977.87
64R	993.37	7/12/06	15.74	15.73	0.01	---	20.50	0.00	977.64
64R	993.37	7/19/06	15.65	P	< 0.01	---	20.50	0.00	977.72
64R	993.37	7/26/06	15.80	P	< 0.01	---	20.50	0.00	977.57
64S	984.48	7/5/06	19.15	P	< 0.01	---	28.70	0.00	965.33
64S	984.48	7/12/06	19.14	19.13	0.01	---	28.70	0.00	965.35
64S	984.48	7/19/06	19.15	P	< 0.01	---	28.70	0.00	965.33
64S	984.48	7/26/06	19.25	P	< 0.01	---	28.70	0.00	965.23
64S-Caisson	NA	7/5/06	10.56	10.55	0.01	---	14.55	0.00	NA
64S-Caisson	NA	7/12/06	11.10	10.95	0.15	---	14.55	0.00	NA
64S-Caisson	NA	7/19/06	10.77	10.75	0.02	---	14.55	0.00	NA
64S-Caisson	NA	7/26/06	10.65	10.63	0.02	---	14.55	0.00	NA
64V	987.29	7/5/06	22.00	21.70	0.30	---	29.60	0.00	965.57
64V	987.29	7/12/06	21.80	21.60	0.20	P	29.60	< 0.01	965.68
64V	987.29	7/19/06	21.60	21.40	0.20	---	29.60	0.00	965.88
64V	987.29	7/26/06	21.80	21.50	0.30	P	29.60	< 0.01	965.77
64X(N)	984.83	7/5/06	12.05	P	< 0.01	---	15.85	0.00	972.78
64X(N)	984.83	7/12/06	12.20	12.19	0.01	---	15.85	0.00	972.64
64X(N)	984.83	7/19/06	12.41	12.38	0.03	---	15.85	0.00	972.45
64X(N)	984.83	7/26/06	12.60	12.57	0.03	---	15.85	0.00	972.26
64X(S)	981.56	7/5/06	15.50	15.30	0.20	---	23.82	0.00	966.25
64X(S)	981.56	7/12/06	15.50	15.47	0.03	---	23.82	0.00	966.09
64X(S)	981.56	7/19/06	15.80	15.68	0.12	---	23.82	0.00	965.87
64X(S)	981.56	7/26/06	16.10	15.90	0.20	---	23.82	0.00	965.65
64X(W)	984.87	7/5/06	18.50	18.48	0.02	---	24.35	0.00	966.39
64X(W)	984.87	7/12/06	18.70	18.68	0.02	---	24.35	0.00	966.19
64X(W)	984.87	7/19/06	18.89	18.87	0.02	---	24.35	0.00	966.00
64X(W)	984.87	7/26/06	19.15	19.12	0.03	---	24.35	0.00	965.75

TABLE 21-10
ROUTINE WELL MONITORING
EAST STREET AREA 2 - NORTH & SOUTH / 20s, 30s, & 40s COMPLEXES
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006

Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)
95-01	983.77	7/13/06	10.26	---	0.00	---	17.23	0.00	973.51
95-04	988.70	7/11/06	16.42	14.29	2.13	---	21.62	0.00	974.26
95-04	988.70	7/12/06	16.29	14.29	2.00	---	21.62	0.00	974.27
95-07	994.91	7/11/06	22.60	18.95	3.65	---	29.25	0.00	975.70
3-6C-EB-22	986.94	7/13/06	13.72	---	0.00	---	20.02	0.00	973.22
E2SC-03I	982.12	7/18/06	10.45	---	0.00	34.10	42.40	8.30	971.67
E2SC-17	985.38	7/18/06	11.70	---	0.00	---	45.75	0.00	973.68
E2SC-23	992.07	7/17/06	17.05	---	0.00	---	21.15	0.00	975.02
E2SC-24	987.90	7/17/06	15.55	---	0.00	---	21.61	0.00	972.35
ES2-06	986.00	7/17/06	13.35	---	0.00	---	34.56	0.00	972.65
GMA1-14	997.43	7/13/06	18.02	---	0.00	---	23.28	0.00	979.41
GMA1-15	988.59	7/13/06	15.84	15.08	0.76	---	17.89	0.00	973.46
GMA1-16	986.82	7/13/06	13.68	13.03	0.65	---	20.02	0.00	973.74
GMA1-17E	993.03	7/13/06	14.83	14.81	0.02	---	17.30	0.00	978.22
GMA1-17W	992.63	7/13/06	16.54	14.50	2.04	---	23.26	0.00	977.99
GMA1-19	984.28	7/5/06	11.14	10.70	0.44	---	17.14	0.00	973.55
GMA1-19	984.28	7/12/06	11.85	11.00	0.85	---	17.14	0.00	973.22
GMA1-19	984.28	7/19/06	12.05	11.40	0.65	---	17.14	0.00	972.83
GMA1-19	984.28	7/25/06	11.95	11.24	0.71	---	17.14	0.00	972.99
GMA1-20	983.49	7/5/06	10.32	---	0.00	---	17.30	0.00	973.17
GMA1-20	983.49	7/12/06	10.60	---	0.00	---	17.30	0.00	972.89
GMA1-20	983.49	7/19/06	10.70	---	0.00	---	17.24	0.00	972.79
GMA1-20	983.49	7/25/06	10.90	---	0.00	---	17.29	0.00	972.59
GMA1-21	985.68	7/5/06	12.42	---	0.00	---	19.46	0.00	973.26
GMA1-21	985.68	7/12/06	12.80	---	0.00	---	19.48	0.00	972.88
GMA1-21	985.68	7/19/06	12.43	---	0.00	---	19.48	0.00	973.25
GMA1-21	985.68	7/25/06	13.02	---	0.00	---	19.48	0.00	972.66
GMA1-22	988.45	7/14/06	14.82	---	0.00	---	19.25	0.00	973.63
GMA1-23	986.16	7/14/06	12.55	---	0.00	---	17.30	0.00	973.61
GMA1-24	983.81	7/13/06	10.70	10.69	0.01	---	16.10	0.00	973.12
HR-G1-MW-1	982.42	7/17/06	10.50	---	0.00	---	20.30	0.00	971.92
HR-G1-MW-2	980.23	7/17/06	8.05	---	0.00	---	28.40	0.00	972.18
HR-G1-MW-3	980.21	7/17/06	8.48	---	0.00	---	17.88	0.00	971.73
HR-G2-MW-1	982.60	7/17/06	10.86	---	0.00	---	18.25	0.00	971.74
HR-G2-MW-2	981.39	7/17/06	8.85	---	0.00	---	17.68	0.00	972.54
HR-G2-MW-3	987.14	7/17/06	14.75	---	0.00	---	22.00	0.00	972.39
HR-G2-RW-1	976.88	7/17/06	6.58	---	0.00	---	18.73	0.00	971.97
HR-G3-MW-1	982.45	7/17/06	14.92	---	0.00	---	17.73	0.00	967.53
HR-G3-MW-2	987.88	7/17/06	15.50	---	0.00	---	17.72	0.00	972.38
HR-G3-RW-1	977.78	7/17/06	5.56	---	0.00	---	8.30	0.00	972.22
HR-J1-MW-1	985.95	7/13/06	13.31	---	0.00	---	25.92	0.00	972.64
HR-J1-MW-2	983.56	7/14/06	10.58	---	0.00	---	17.73	0.00	972.98
HR-J1-MW-3	987.68	7/14/06	14.86	---	0.00	---	26.55	0.00	972.82
HR-J1-RW-1	975.05	7/14/06	2.78	---	0.00	---	14.93	0.00	972.27
RW-1(S)	987.23	7/5/06	19.20	19.00	0.20	---	28.60	0.00	968.22
RW-1(S)	987.23	7/12/06	19.10	18.90	0.20	---	28.60	0.00	968.32
RW-1(S)	987.23	7/19/06	19.25	19.05	0.20	---	28.60	0.00	968.17
RW-1(S)	987.23	7/26/06	18.90	18.85	0.05	---	28.60	0.00	968.38
RW-1(X)	982.68	7/5/06	14.20	---	0.00	---	20.80	0.00	968.48
RW-1(X)	982.68	7/12/06	14.25	---	0.00	---	20.80	0.00	968.43

TABLE 21-10
ROUTINE WELL MONITORING
EAST STREET AREA 2 - NORTH & SOUTH / 20s, 30s, & 40s COMPLEXES
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006

Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)	
RW-1(X)	982.68	7/19/06	14.25	---	0.00	---	20.80	0.00	968.43	
RW-1(X)	982.68	7/26/06	14.25	---	0.00	---	20.80	0.00	968.43	
RW-2(X)	985.96	7/5/06	15.50	---	0.00	---	15.30	0.00	970.46	
RW-2(X)	985.96	7/12/06	13.70	---	0.00	---	15.30	0.00	972.26	
RW-2(X)	985.96	7/19/06	14.05	---	0.00	---	15.30	0.00	971.91	
RW-2(X)	985.96	7/26/06	14.25	---	0.00	---	15.30	0.00	971.71	
RW-3(X)	980.28	7/5/06	8.70	---	0.00	42.90	44.40	1.50	971.58	
RW-3(X)	980.28	7/12/06	8.80	---	0.00	42.80	44.40	1.60	971.48	
RW-3(X)	980.28	7/19/06	8.10	---	0.00	42.10	44.40	2.30	972.18	
RW-3(X)	980.28	7/26/06	9.10	---	0.00	42.11	44.40	2.29	971.18	
TMP-1	992.74	7/14/06	19.32	---	0.00	---	21.91	0.00	973.42	
Housatonic River										
SG-HR-1	990.73	7/5/06	19.22	See Note 7 regarding depth to water						971.51
SG-HR-1	990.73	7/12/06	19.35	See Note 7 regarding depth to water						971.38
SG-HR-1	990.73	7/19/06	19.52	See Note 7 regarding depth to water						971.21
SG-HR-1	990.73	7/25/06	19.68	See Note 7 regarding depth to water						971.05

Notes:

1. ft BMP - feet Below Measuring Point.
2. --- indicates LNAPL or DNAPL was not present in a measurable quantity.
3. NA indicates information not available.
4. NM indicates information not measured.
5. P indicates that LNAPL is present at a thickness that is < 0.01 feet, the corresponding thickness is recorded as such.
6. Well HR-G2-RW-1 is constructed at an angle of 41.67 degrees from vertical. Depth to water data reflect measurements collected along the angled well casing. Groundwater elevations are corrected to account for the angle of the well casing.
7. A survey reference point (SG-HR-1) was established on the Newell Street Bridge. The "Depth to Water" value(s) provided in the above table refer to the vertical distance from the surveyed reference point to the water surface.
8. A weighted bailer has been installed at this location to remove accumulations of DNAPL. The DNAPL thickness reported is that measured within the bailer upon the initial retrieval.

TABLE 21-11
ACTIVE RECOVERY SYSTEMS MONTHLY SUMMARY
LYMAN STREET AREA
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006

Month / Year	Volume Water Pumped (gallon)	RW-1 DNAPL Recovered (gallon)	RW-1R LNAPL Recovered (gallon)	RW-3 LNAPL Recovered (gallon)
July 2004	328,363	--	--	--
August 2004	310,473	--	--	--
September 2004	499,209	--	1	20
October 2004	426,078	--	--	--
November 2004	421,409	--	--	12
December 2004	539,528	--	--	10
January 2005	443,634	--	--	10
February 2005	409,113	--	--	5
March 2005	455,192	--	--	5
April 2005	425,145	--	--	5
May 2005	357,497	--	--	--
June 2005	422,006	--	--	10
July 2005	310,647	--	5	10
August 2005	302,572	--	--	--
September 2005	198,753	--	--	--
October 2005	314,247	--	--	--
November 2005	412,936	--	--	--
December 2005	332,721	--	--	--
January 2006	342,548	--	--	--
February 2006	336,595	--	--	--
March 2006	322,169	--	--	--
April 2006	245,626	--	--	--
May 2006	253,821	--	--	--
June 2006	562,906	--	--	--
July 2006	206,016	--	--	--

Notes:

1. Volume of water pumped is total from Wells RW-1R, RW-2, and RW-3.
2. -- indicates LNAPL or DNAPL was not recovered by the system.
3. There was no downtime for RW-1/1R, RW-2, and RW-3 during July 2006.

**TABLE 21-12
MEASUREMENT AND REMOVAL OF RECOVERABLE DNAPL
LYMAN STREET AREA
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006**

Well Name	Date	Depth to Water (ft BMP)	Depth to DNAPL (ft BMP)	DNAPL Thickness (feet)	DNAPL Removed (liters)	July 2006 Removal (liters)
LS-30	7/11/06	13.87	21.40	0.80	0.494	0.494
LS-31	7/11/06	13.60	22.84	0.47	0.290	0.290
LS-34	7/11/06	13.94	27.55	0.98	0.605	0.605
LSSC-07	7/5/06	10.78	24.70	0.38	0.234	0.765
	7/12/06	11.01	24.76	0.32	0.197	
	7/18/06	11.09	24.82	0.26	0.160	
	7/25/06	11.30	24.80	0.28	0.173	
LSSC-08I	7/5/06	12.40	23.36	0.02	0.012	0.025
	7/18/06	12.68	23.37	0.01	0.006	
	7/25/06	12.90	23.37	0.01	0.006	

**Total Manual DNAPL Removal for July 2006: 2.179 liters
0.575 gallons**

Note:

1. ft BMP - feet Below Measuring Point.

TABLE 21-13
ROUTINE WELL MONITORING
LYMAN STREET AREA
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006

Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)
EPA-01	983.04	7/14/06	12.00	---	0.00	---	22.77	0.00	971.04
LS-24	986.58	7/14/06	Covered by Pallet		0.00	---	---	0.00	NA
LS-30	986.440	7/11/06	13.87	---	0.00	21.40	22.20	0.80	972.57
LS-31	987.090	7/11/06	13.60	---	0.00	22.84	23.31	0.47	973.49
LS-34	985.79	7/11/06	13.94	---	0.00	27.55	28.53	0.98	971.85
LS-38	986.95	7/14/06	15.44	---	0.00	---	25.05	0.00	971.51
LS-43	981.17	7/14/06	1.54	---	0.00	---	6.39	0.00	979.63
LS-44	980.78	7/14/06	9.44	---	0.00	---	24.78	0.00	971.34
LSSC-07	982.48	7/5/06	10.78	---	0.00	24.70	25.08	0.38	971.70
LSSC-07	982.48	7/12/06	11.01	---	0.00	24.76	25.08	0.32	971.47
LSSC-07	982.48	7/18/06	11.09	---	0.00	24.82	25.08	0.26	971.39
LSSC-07	982.48	7/25/06	11.30	---	0.00	24.80	25.08	0.28	971.18
LSSC-08I	983.13	7/5/06	12.40	---	0.00	23.36	23.38	0.02	970.73
LSSC-08I	983.13	7/12/06	12.58	---	0.00	---	23.38	0.00	970.55
LSSC-08I	983.13	7/18/06	12.68	---	0.00	23.37	23.38	0.01	970.45
LSSC-08I	983.13	7/25/06	12.90	---	0.00	23.37	23.38	0.01	970.23
LSSC-08S	983.11	7/14/06	12.17	---	0.00	---	14.75	0.00	970.94
LSSC-16I	980.88	7/14/06	8.98	---	0.00	---	28.53	0.00	971.90
LSSC-18	987.32	7/14/06	14.44	---	0.00	---	18.58	0.00	972.88
LSSC-32	980.68	7/14/06	Buried Under Debris			---	35.24	0.00	NA
LSSC-33	980.49	7/14/06	8.88	P	< 0.01	---	29.76	0.00	971.61
LSSC-34I	984.74	7/14/06	13.08	---	0.00	28.25	28.48	0.23	971.66
MW-4R	980.82	7/11/06	9.78	---	0.00	---	14.04	0.00	971.04
RW-1	984.88	7/5/06	12.20	---	0.00	P	21.00	< 0.01	972.68
RW-1	984.88	7/12/06	12.40	---	0.00	P	21.00	< 0.01	972.48
RW-1	984.88	7/19/06	12.50	---	0.00	P	21.00	< 0.01	972.38
RW-1	984.88	7/26/06	12.70	---	0.00	P	21.00	< 0.01	972.18
RW-1 (R)	985.07	7/5/06	15.00	---	0.00	P	20.42	< 0.01	970.07
RW-1 (R)	985.07	7/12/06	15.05	---	0.00	P	20.42	< 0.01	970.02
RW-1 (R)	985.07	7/19/06	15.00	---	0.00	P	20.42	< 0.01	970.07
RW-1 (R)	985.07	7/26/06	15.10	---	0.00	P	20.42	< 0.01	969.97
RW-2	987.82	7/5/06	13.80	---	0.00	---	21.75	0.00	974.02
RW-2	987.82	7/12/06	14.30	---	0.00	---	21.75	0.00	973.52
RW-2	987.82	7/19/06	14.50	---	0.00	---	21.75	0.00	973.32
RW-2	987.82	7/26/06	14.60	---	0.00	---	21.75	0.00	973.22
RW-3	984.08	7/5/06	16.78	16.75	0.03	---	21.57	0.00	967.33
RW-3	984.08	7/12/06	17.00	16.80	0.20	---	21.57	0.00	967.27
RW-3	984.08	7/19/06	16.58	16.56	0.02	---	21.57	0.00	967.52
RW-3	984.08	7/26/06	16.50	16.48	0.02	---	21.57	0.00	967.60

TABLE 21-13
ROUTINE WELL MONITORING
LYMAN STREET AREA
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006

Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)
Housatonic River (Lyman Street Bridge)									
BM-2A	986.32	7/5/06	16.10			See Note 5 regarding depth to water			970.22
BM-2A	986.32	7/12/06	16.30			See Note 5 regarding depth to water			970.02
BM-2A	986.32	7/19/06	16.35			See Note 5 regarding depth to water			969.97
BM-2A	986.32	7/25/06	16.40			See Note 5 regarding depth to water			969.92

Notes:

1. ft BMP - feet Below Measuring Point.
2. --- indicates LNAPL or DNAPL was not present in a measurable quantity.
3. NA indicates information not available.
4. P indicates that LNAPL is present at a thickness that is < 0.01 feet, the corresponding thickness is recorded as such.
5. A survey reference point (BM-2A) was established on the Lyman Street Bridge. The "Depth to Water" value(s) provided in the above table refer to the vertical distance from the surveyed reference point to the water surface.

TABLE 21-14
ACTIVE DNAPL RECOVERY SYSTEMS MONTHLY SUMMARY
NEWELL STREET AREA II
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006

Recovery System	Date	Total Gallons Recovered
System 1⁽¹⁾	July 2005	14.3
	August 2005	-- ⁽⁴⁾
	September 2005	-- ⁽⁴⁾
	October 2005	-- ⁽⁴⁾
	November 2005	-- ⁽⁴⁾
	December 2005	-- ⁽⁴⁾
	January 2006	-- ⁽⁴⁾
	February 2006	-- ⁽⁴⁾
	March 2006	-- ⁽⁴⁾
	April 2006	-- ⁽⁴⁾
	May 2006	-- ⁽⁴⁾
	June 2006	-- ⁽⁴⁾
	July 2006	-- ⁽⁴⁾
System 2⁽²⁾	July 2005	48.6
	August 2005	-- ⁽⁴⁾
	September 2005	-- ⁽⁴⁾
	October 2005	-- ⁽⁴⁾
	November 2005	-- ⁽⁴⁾
	December 2005	-- ⁽⁴⁾
	January 2006	-- ⁽⁴⁾
	February 2006	-- ⁽⁴⁾
	March 2006	-- ⁽⁴⁾
	April 2006	-- ⁽⁴⁾
	May 2006	-- ⁽⁴⁾
	June 2006	-- ⁽⁴⁾
	July 2006	-- ⁽⁴⁾
Total Automated DNAPL Removal for July 2006:		0.0 Gallons

Notes:

1. System 1 wells are NS-15, NS-30, and NS-32.
2. System 2 wells are N2SC-011, N2SC-031, and N2SC-14.
3. In January 2005, System 2 malfunctioned during weeks 2 and 3, pumping mostly water. The volume reported for those two weeks is an estimated quantity that was included in the total volume removed.
4. The DNAPL recovery systems for the Newell Street Area II were shut down on July 25, 2005. The upgraded systems will be completed and activated approximately 2 to 3 months after completion of the EPA-approved soil remediation activities in this area.

TABLE 21-15
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
CONSENT DECREE MONTHLY STATUS REPORT
GROUNDWATER MANAGEMENT AREA 1 - NEWELL STREET AREA II
MEASUREMENT AND REMOVAL OF RECOVERABLE LNAPL
July 2006

Well Name	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	LNAPL Removed (liters)	July 2006 Removal (liters)
NS-10	7/11/06	16.20	15.80	0.40	0.989	0.989

Total LNAPL Removal for July 2006: 0.989 liters
0.261 gallons

Note:

1. ft BMP - feet Below Measuring Point.

TABLE 21-16
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
CONSENT DECREE MONTHLY STATUS REPORT
GROUNDWATER MANAGEMENT AREA 1 - NEWELL STREET AREA II
MEASUREMENT AND REMOVAL OF RECOVERABLE DNAPL
July 2006

Well Name	Date	Depth to Water (ft BMP)	Depth to DNAPL (ft BMP)	DNAPL Thickness (feet)	DNAPL Removed (liters)	July 2006 Removal (liters)
N2SC-01I(R)	7/11/06	13.50	39.20	1.45	8.062	8.062
N2SC-02	7/11/06	12.25	39.30	0.04	0.025	0.025

Total DNAPL Removal for July 2006: 8.087 liters
2.134 gallons

Note:

1. ft BMP - feet Below Measuring Point.

TABLE 21-17
ROUTINE WELL MONITORING
NEWELL STREET AREA II
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006

Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)
GMA1-8	981.66	7/11/06	9.75	---	0.00	---	16.20	0.00	971.91
GMA1-9	982.36	7/11/06	9.85	---	0.00	---	14.35	0.00	972.51
GMA1-25	NA	7/11/06	14.20	---	0.00	---	18.60	0.00	NA
GMA1-26	NA	7/11/06	12.00	---	0.00	---	17.03	0.00	NA
GMA1-27	NA	7/11/06	8.35	---	0.00	---	16.46	0.00	NA
GMA1-28	NA	7/11/06	10.40	---	0.00	---	16.18	0.00	NA
MW-1D	987.20	7/11/06	14.35	---	0.00	39.30	39.45	0.15	972.85
MW-1S	986.60	7/11/06	11.75	---	0.00	20.30	20.36	0.06	974.85
N2SC-01I	984.99	7/5/06	12.98	---	0.00	37.60	41.60	4.00	972.01
N2SC-01I	984.99	7/11/06	13.28	---	0.00	37.60	41.60	4.00	971.71
N2SC-01I	984.99	7/19/06	12.21	---	0.00	36.70	40.40	3.70	972.78
N2SC-01I	984.99	7/25/06	12.40	---	0.00	37.80	40.40	2.60	972.59
N2SC-01I(R)	986.01	7/5/06	13.26	---	0.00	39.35	40.60	1.25	972.75
N2SC-01I(R)	986.01	7/11/06	13.50	---	0.00	39.20	40.65	1.45	972.51
N2SC-01I(R)	986.01	7/19/06	13.67	---	0.00	39.10	40.54	1.44	972.34
N2SC-01I(R)	986.01	7/25/06	13.80	---	0.00	39.15	40.70	1.55	972.21
N2SC-02	985.56	7/11/06	12.25	---	0.00	39.30	39.34	0.04	973.31
N2SC-03I	986.24	7/5/06	11.35	---	0.00	36.75	38.88	2.13	974.89
N2SC-03I	986.24	7/11/06	11.65	---	0.00	36.30	38.90	2.60	974.59
N2SC-03I	986.24	7/19/06	10.75	---	0.00	35.80	37.80	2.00	975.49
N2SC-03I	986.24	7/25/06	10.90	---	0.00	35.10	37.78	2.68	975.34
N2SC-03I(R)	985.86	7/5/06	12.94	---	0.00	38.05	40.55	2.50	972.92
N2SC-03I(R)	985.86	7/11/06	13.50	---	0.00	37.90	40.65	2.75	972.36
N2SC-03I(R)	985.86	7/19/06	13.35	---	0.00	37.95	40.56	2.61	972.51
N2SC-03I(R)	985.86	7/25/06	13.50	---	0.00	37.90	40.60	2.70	972.36
N2SC-07	984.61	7/11/06	11.40	---	0.00	---	36.90	0.00	973.21
N2SC-07S	982.93	7/11/06	Buried Under Gravel			---	18.91	0.00	NA
N2SC-08	986.07	7/11/06	12.70	---	0.00	40.30	42.60	2.30	973.37
N2SC-09S	987.84	7/11/06	9.80	---	0.00	---	14.20	0.00	978.04
N2SC-14	985.06	7/5/06	14.20	---	0.00	38.50	40.30	1.80	970.86
N2SC-14	985.06	7/11/06	14.50	---	0.00	38.25	40.30	2.05	970.56
N2SC-14	985.06	7/19/06	14.65	---	0.00	38.50	40.30	1.80	970.41
N2SC-14	985.06	7/25/06	14.80	---	0.00	38.50	40.30	1.80	970.26
NS-9	982.51	7/11/06	Buried Under Gravel			---	--	0.00	NA
NS-10	984.59	7/11/06	16.20	15.80	0.40	---	24.78	0.00	968.76
NS-15R	NA	7/5/06	12.00	---	0.00	---	20.48	0.00	NA
NS-15R	NA	7/11/06	12.24	---	0.00	---	20.46	0.00	NA
NS-15R	NA	7/19/06	11.00	---	0.00	---	19.05	0.00	NA
NS-15R	NA	7/25/06	11.10	---	0.00	---	19.05	0.00	NA
NS-16	984.46	7/11/06	Buried Under Gravel			---	19.75	0.00	NA
NS-17	984.64	7/11/06	12.78	---	0.00	---	18.71	0.00	971.86
NS-20	985.29	7/11/06	5.95	---	0.00	---	14.95	0.00	979.34
NS-30	985.99	7/5/06	11.40	---	0.00	35.90	36.35	0.45	974.59
NS-30	985.99	7/11/06	11.60	---	0.00	35.80	36.35	0.55	974.39
NS-30	985.99	7/19/06	10.45	---	0.00	34.48	35.14	0.66	975.54
NS-30	985.99	7/25/06	10.70	---	0.00	34.80	35.12	0.32	975.29
NS-32	986.20	7/5/06	12.20	---	0.00	39.00	39.20	0.20	974.00
NS-32	986.20	7/11/06	12.45	---	0.00	39.10	39.25	0.15	973.75
NS-32	986.20	7/19/06	11.47	---	0.00	37.90	38.05	0.15	974.73
NS-32	986.20	7/25/06	11.60	---	0.00	37.75	38.05	0.30	974.60

TABLE 21-17
ROUTINE WELL MONITORING
NEWELL STREET AREA II
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006

Notes:

1. ft BMP - feet Below Measuring Point.
2. --- indicates LNAPL or DNAPL was not present in a measurable quantity.
3. NA indicates information not available.

**TABLE 21-18
ROUTINE WELL MONITORING
SILVER LAKE AREA
GROUNDWATER MANAGEMENT AREA 1
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006**

Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)
Staff Gauge within Silver Lake									
Silver Lake Gauge	980.30	7/5/06	4.50	See Note 4 regarding depth to water					975.80
Silver Lake Gauge	980.30	7/12/06	4.51	See Note 4 regarding depth to water					975.79
Silver Lake Gauge	980.30	7/19/06	4.56	See Note 4 regarding depth to water					975.74
Silver Lake Gauge	980.30	7/25/06	4.51	See Note 4 regarding depth to water					975.79

Notes:

1. ft BMP - feet Below Measuring Point.
2. --- indicates LNAPL or DNAPL was not present in a measurable quantity.
3. NA indicates information not available.
4. A survey reference point was established on the Silver Lake staff gauge. The "Depth to Water" value(s) provided in the above table refer to the vertical distance from the surveyed reference point to the water surface.
5. Additional groundwater elevation data was collected from wells near Silver Lake that are located in the 30s Complex and at the Lyman Street Area. Those results are presented in the monitoring tables for those Removal Action Areas.

**ITEM 22
GROUNDWATER MANAGEMENT AREAS
FORMER OXBOWS J & K (GMA 2)
(GEC320)
JULY 2006**

* All activities described below for this item were conducted pursuant to the Consent Decree.

a. Activities Undertaken/Completed

Continued routine river elevation monitoring.

b. Sampling/Test Results Received

See attached table.

c. Work Plans/Reports/Documents Submitted

Submitted Groundwater Quality Monitoring Interim Report for Spring 2006 (July 28, 2006).

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

Continue routine river elevation monitoring.

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

None

TABLE 22-1
ROUTINE RIVER ELEVATION MONITORING
GROUNDWATER MANAGEMENT AREA 2
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006

Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Total Depth (ft BMP)	Corrected Water Elev. (feet)
Housatonic River (Foot Bridge)					
GMA2-SG-1	989.82	7/18/06	17.06		972.76

Notes:

1. ft BMP - feet Below Measuring Point.
2. A survey reference point was established on the Oxbows J & K foot bridge. The "Depth to Water" value(s) provided in the above table refer to the vertical distance from the surveyed reference point to the water surface.

**ITEM 23
GROUNDWATER MANAGEMENT AREAS
PLANT SITE 2 (GMA 3)
(GECD330)
JULY 2006**

* All activities described below for this item were conducted pursuant to the Consent Decree.

a. Activities Undertaken/Completed

Conducted routine groundwater elevation and NAPL monitoring activities. Approximately 20.470 liters (5.40 gallons) of LNAPL were removed by the automatic skimmer located in well 51-21 and an additional 3.747 liters (0.99 gallon) of LNAPL were manually removed from the wells in this area (see Table 23-1).

b. Sampling/Test Results Received

See attached tables.

c. Work Plans/Reports/Documents Submitted

None

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

- Continue ongoing groundwater and NAPL monitoring and recovery activities.
- Submit Groundwater Quality Monitoring Interim Report for Spring 2006 (due to EPA by August 31, 2006).
- Conduct soil gas investigation near Building 51.
- Submit report on soil gas investigation near Building 51 (due to EPA by September 11, 2006).

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

Received EPA conditional approval of GE's May 31, 2006 Soil Gas Investigation Work Plan (July 11, 2006).

TABLE 23-1
MEASUREMENT AND REMOVAL OF RECOVERABLE LNAPL
GROUNDWATER MANAGEMENT AREA 3
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006

Well Name	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	LNAPL Removed (liters)	July 2006 Removal (liters)
51-08	7/12/06	11.85	11.00	0.85	0.524	0.999
	7/18/06	11.75	10.98	0.77	0.475	
51-16R	7/17/06	10.65	10.31	0.34	0.210	0.210
51-17	7/17/06	11.73	10.08	1.65	1.019	1.019
51-21	7/5/06	15.25	P	< 0.01	3.41	20.470
	7/12/06	15.45	15.44	0.01	3.41	
	7/19/06	15.58	P	< 0.01	5.69	
	7/26/06	15.70	---	0.00	7.96	
59-03R	7/17/06	12.30	11.41	0.89	0.550	0.550
GMA3-10	7/5/06	11.30	11.00	0.30	0.185	0.913
	7/12/06	11.70	11.12	0.58	0.358	
	7/18/06	11.80	11.20	0.60	0.370	
GMA3-12	7/5/06	11.60	11.35	0.25	0.618	0.618
GMA3-13	7/5/06	11.31	11.20	0.11	0.068	0.197
	7/12/06	11.42	11.30	0.12	0.074	
	7/18/06	11.49	11.40	0.09	0.056	
UB-PZ-3	7/17/06	12.30	12.02	0.28	0.043	0.043

Total Automated LNAPL Removal at well 51-21 for July 2006: 20.470 liters
5.40 Gallons

Total Manual LNAPL Removal at all other wells for July 2006: 3.747 liters
0.99 Gallons

Total LNAPL Removed for July 2006: 24.217 liters
6.39 Gallons

Notes:

1. ft BMP - feet Below Measuring Point.
2. P indicates that LNAPL or DNAPL is present at a thickness that is < 0.01 feet. The corresponding thickness is recorded as such.

TABLE 23-2
ROUTINE WELL MONITORING
GROUNDWATER MANAGEMENT AREA 3
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006

Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)
51-05	996.44	7/17/06	10.35	---	0.00	---	11.65	0.00	986.09
51-06	997.36	7/17/06	10.84	10.83	0.01	---	14.61	0.00	986.53
51-07	997.08	7/17/06	10.82	P	---	---	11.22	0.00	NA
51-08	997.08	7/5/06	10.95	10.82	0.13	---	14.68	0.00	986.25
51-08	997.08	7/12/06	11.85	11.00	0.85	---	14.68	0.00	986.02
51-08	997.08	7/18/06	11.75	10.98	0.77	---	14.69	0.00	986.05
51-08	997.08	7/24/06	11.22	11.10	0.12	---	14.70	0.00	985.97
51-09	997.70	7/17/06	11.20	---	0.00	---	11.60	0.00	986.50
51-11	994.37	7/17/06	8.65	---	0.00	---	13.32	0.00	985.72
51-12	996.55	7/17/06	7.55	---	0.00	---	13.33	0.00	989.00
51-13	997.42	7/17/06	Dry	---	0.00	---	9.73	0.00	< 987.69
51-14	996.77	7/17/06	10.91	---	0.00	---	14.89	0.00	985.86
51-15	996.43	7/17/06	10.54	10.30	0.24	---	14.38	0.00	986.11
51-16R	996.39	7/17/06	10.65	10.31	0.34	---	14.55	0.00	986.06
51-17	996.43	7/17/06	11.73	10.08	1.65	---	14.50	0.00	986.23
51-18	997.12	7/17/06	11.03	---	0.00	---	12.60	0.00	986.09
51-19	996.43	7/17/06	10.52	P	< 0.01	---	14.06	0.00	985.91
51-21	1001.49	7/5/06	15.25	P	< 0.01	---	NM	0.00	986.24
51-21	1001.49	7/12/06	15.45	15.44	0.01	---	NM	0.00	986.05
51-21	1001.49	7/19/06	15.58	P	< 0.01	---	NM	0.00	985.91
51-21	1001.49	7/26/06	15.70	---	0.00	---	NM	0.00	985.79
59-01	997.52	7/17/06	11.33	---	0.00	---	11.43	0.00	986.19
59-03R	997.64	7/17/06	12.30	11.41	0.89	---	17.04	0.00	986.17
59-07	997.96	7/17/06	11.72	11.70	0.02	---	23.55	0.00	986.26
GMA3-7	1000.17	7/17/06	13.68	---	0.00	---	19.61	0.00	986.49
GMA3-10	997.54	7/5/06	11.30	11.00	0.30	---	17.95	0.00	986.52
GMA3-10	997.54	7/12/06	11.70	11.12	0.58	---	17.95	0.00	986.38
GMA3-10	997.54	7/18/06	11.80	11.20	0.60	---	17.95	0.00	986.30
GMA3-10	997.54	7/24/06	11.97	11.35	0.62	---	17.95	0.00	986.15
GMA3-11	997.25	7/17/06	10.49	---	0.00	---	18.30	0.00	986.76
GMA3-12	997.84	7/5/06	11.60	11.35	0.25	---	21.24	0.00	986.47
GMA3-12	997.84	7/12/06	11.64	11.50	0.14	---	21.24	0.00	986.33
GMA3-12	997.84	7/18/06	11.79	11.60	0.19	---	21.24	0.00	986.23
GMA3-12	997.84	7/24/06	11.99	11.73	0.26	---	21.24	0.00	986.09
GMA3-13	997.73	7/5/06	11.31	11.20	0.11	---	17.70	0.00	986.52
GMA3-13	997.73	7/12/06	11.42	11.30	0.12	---	17.70	0.00	986.42
GMA3-13	997.73	7/18/06	11.49	11.40	0.09	---	17.68	0.00	986.32
GMA3-13	997.73	7/24/06	11.55	---	0.00	---	17.70	0.00	986.18
GMA3-14	997.42	7/17/06	10.99	---	0.00	---	17.03	0.00	986.43
GMA3-15	996.74	7/17/06	11.65	---	0.00	---	17.03	0.00	985.09
UB-MW-10	995.99	7/17/06	9.75	---	0.00	---	15.02	0.00	986.24
UB-PZ-3	998.15	7/17/06	12.30	12.02	0.28	---	13.40	0.00	986.11

TABLE 23-2
ROUTINE WELL MONITORING
GROUNDWATER MANAGEMENT AREA 3
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006

Notes:

1. ft BMP - feet Below Measuring Point.
2. --- indicates LNAPL or DNAPL was not present in a measurable quantity.
3. NA indicates information not available.
4. NM indicates information not measured.
5. P indicates that LNAPL is present at a thickness that is < 0.01 feet, the corresponding thickness is recorded as
6. This table also includes groundwater data collected from certain wells during sampling activities conducted in April 2006 that was not compiled in time to include in the previous monthly report.

**ITEM 24
GROUNDWATER MANAGEMENT AREAS
PLANT SITE 3 (GMA 4)
(GEC340)
JULY 2006**

* All activities described below for this item were conducted pursuant to the Consent Decree.

a. Activities Undertaken/Completed

Conducted routine groundwater elevation monitoring, including quarterly monitoring at 17 wells along the northern boundary of GMA 4.

b. Sampling/Test Results Received

See attached table.

c. Work Plans/Reports/Documents Submitted

None

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

- Continue routine monitoring at well GMA4-3.
- Submit Groundwater Quality Monitoring Interim Report for Spring 2006 (due to EPA by August 31, 2006).

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

None

**TABLE 24-1
ROUTINE WELL MONITORING
GROUNDWATER MANAGEMENT AREA 4
CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
July 2006**

Well Name	Measuring Point Elev. (feet)	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (feet)	Corrected Water Elev. (feet)
78-1	1,026.32	7/11/06	9.54	---	0.00	---	22.40	0.00	1,016.78
78-2	1,033.96	7/11/06	8.02	---	0.00	---	20.62	0.00	1,025.94
78-6	1,012.00	7/11/06	8.10	---	0.00	---	17.54	0.00	1,003.90
GMA4-3	1,003.95	7/11/06	17.48	---	0.00	---	26.26	0.00	986.47
GMA4-4	999.64	7/11/06	12.55	---	0.00	---	23.15	0.00	987.09
GMA4-6	1,009.12	7/11/06	8.54	---	0.00	---	12.61	0.00	1,000.58
NY-3	1,005.49	7/11/06	15.31	---	0.00	---	24.70	0.00	990.18
NY-4	1,024.24	7/11/06	9.40	---	0.00	---	31.32	0.00	1,014.84
OPCA-MW-1R	NA	7/11/06	5.09	---	0.00	---	24.62	0.00	NA
OPCA-MW-2	1,019.58	7/11/06	17.55	---	0.00	---	25.30	0.00	1,002.03
OPCA-MW-3	1,014.83	7/11/06	18.92	---	0.00	---	27.41	0.00	995.91
OPCA-MW-4	1,018.67	7/11/06	11.85	---	0.00	---	21.48	0.00	1,006.82
OPCA-MW-5R	1,016.34	7/11/06	10.52	---	0.00	---	21.61	0.00	1,005.82
OPCA-MW-6	1,022.31	7/11/06	17.08	---	0.00	---	23.87	0.00	1,005.23
OPCA-MW-7	1,026.57	7/11/06	14.11	---	0.00	---	23.64	0.00	1,012.46
OPCA-MW-8	1,027.40	7/11/06	10.19	---	0.00	---	21.78	0.00	1,017.21
SCH-4	1,014.05	7/11/06	8.98	---	0.00	---	16.28	0.00	1,005.07

Notes:

1. ft BMP - feet Below Measuring Point.
2. --- indicates LNAPL or DNAPL was not present in a measurable quantity.
3. NA indicates information not available.
4. This table also includes groundwater data collected from certain wells during sampling activities conducted in April 2006 that was not compiled in time to include in the previous monthly report.

**ITEM 25
GROUNDWATER MANAGEMENT AREAS
FORMER OXBOWS A & C (GMA 5)
(GECD350)
JULY 2006**

* All activities described below for this item were conducted pursuant to the Consent Decree.

a. Activities Undertaken/Completed

None

b. Sampling/Test Results Received

None

c. Work Plans/Reports/Documents Submitted

Submitted Groundwater Quality Monitoring Interim Report for Spring 2006 (July 28, 2006).

d. Upcoming Scheduled and Anticipated Activities (next six weeks)

None

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

None

Attachment A

NPDES Sampling Records and Results July 2006

**TABLE A-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**NPDES PERMIT MONITORING
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
NPDES Sampling	001-A7393	7/4/06	Water	Columbia	Oil & Grease	7/14/06
NPDES Sampling	001-A7400	7/4/06	Water	Accutest	PCB	7/27/06
NPDES Sampling	001-A7401	7/5/06	Water	Columbia	TSS	7/14/06
NPDES Sampling	005-A7380/A7381	6/20/06	Water	SGS	PCB	7/11/06
NPDES Sampling	005-A7390/A7391	6/27/06	Water	SGS	PCB	7/11/06
NPDES Sampling	005-A7402/A7403	7/5/06	Water	Accutest	PCB	7/27/06
NPDES Sampling	005-A7402/A7403	7/5/06	Water	Columbia	TSS, BOD	7/14/06
NPDES Sampling	005-A7419/A7422	7/10/06	Water	Accutest	PCB	7/27/06
NPDES Sampling	005-A7447/A7448	7/18/06	Water	Accutest	PCB	7/31/06
NPDES Sampling	005-A7460/A7461	7/25/06	Water	Accutest	PCB	
NPDES Sampling	006-A7429	7/11/06	Water	Columbia	Oil & Grease	7/19/06
NPDES Sampling	006-A7431	7/11/06	Water	Accutest	PCB	7/25/06
NPDES Sampling	01A-A7412	7/11/06	Water	Columbia	Oil & Grease	7/19/06
NPDES Sampling	01A-A7414	7/11/06	Water	Accutest	PCB	7/27/06
NPDES Sampling	05A-A7426	7/11/06	Water	Columbia	Oil & Grease	7/19/06
NPDES Sampling	05A-A7428	7/11/06	Water	Accutest	PCB	7/25/06
NPDES Sampling	05B-A7463	7/28/06	Water	Columbia	Oil & Grease	
NPDES Sampling	05B-A7465	7/28/06	Water	Accutest	PCB	
NPDES Sampling	06A-A7466	7/28/06	Water	Columbia	Oil & Grease	
NPDES Sampling	06A-A7468	7/28/06	Water	Accutest	PCB	
NPDES Sampling	09B-A7392	6/27/06	Water	Columbia	TSS, BOD	7/7/06
NPDES Sampling	09B-A7415	7/11/06	Water	Columbia	TSS, BOD	7/19/06
NPDES Sampling	09B-A7449	7/20/06	Water	Columbia	TSS, BOD	7/28/06
NPDES Sampling	09B-A7458	7/24/06	Water	Columbia	TSS, BOD	
NPDES Sampling	09B-A7489	7/31/06	Water	Columbia	TSS, BOD	
NPDES Sampling	09C-A7383	6/25/06	Water	Columbia	Oil & Grease	7/7/06
NPDES Sampling	09C-A7423	7/11/06	Water	Columbia	Oil & Grease	7/19/06
NPDES Sampling	09C-A7425	7/11/06	Water	Accutest	PCB	7/25/06
NPDES Sampling	09C-A7450	7/22/06	Water	Columbia	Oil & Grease	
NPDES Sampling	09C-A7452	7/23/06	Water	Columbia	Oil & Grease	
NPDES Sampling	64G-A7388	6/26/06	Water	Columbia	Oil & Grease	7/7/06
NPDES Sampling	64G-A7398	7/4/06	Water	Columbia	Oil & Grease	7/14/06
NPDES Sampling	64G-A7404	7/5/06	Water	Columbia	SVOC	7/14/06
NPDES Sampling	64G-A7405	7/5/06	Water	Columbia	VOC	7/14/06
NPDES Sampling	64G-A7420	7/10/06	Water	Columbia	Oil & Grease	7/19/06

**TABLE A-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**NPDES PERMIT MONITORING
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
NPDES Sampling	64G-A7444	7/17/06	Water	Columbia	Oil & Grease	7/25/06
NPDES Sampling	64G-A7456	7/24/06	Water	Columbia	Oil & Grease	
NPDES Sampling	64G-A7471	7/31/06	Water	Columbia	Oil & Grease	
NPDES Sampling	64T-A7385	6/26/06	Water	Columbia	Oil & Grease	7/7/06
NPDES Sampling	64T-A7396	7/4/06	Water	Columbia	Oil & Grease	7/14/06
NPDES Sampling	64T-A7417	7/10/06	Water	Columbia	Oil & Grease	7/19/06
NPDES Sampling	64T-A7442	7/17/06	Water	Columbia	Oil & Grease	7/25/06
NPDES Sampling	64T-A7454	7/24/06	Water	Columbia	Oil & Grease	
NPDES Sampling	64T-A7469	7/31/06	Water	Columbia	Oil & Grease	
NPDES Sampling	A7354R	6/6/06	Water	Aquatec	Acute Toxicity Test	7/5/06
NPDES Sampling	A7355C	6/6/06	Water	Aquatec	Acute Toxicity Test	7/5/06
NPDES Sampling	A7406R	7/10/06	Water	Aquatec	Acute Toxicity Test	7/31/06
NPDES Sampling	A7406R	7/10/06	Water	Aquatec	Chronic Toxicity Test	
NPDES Sampling	A7406RCN	7/10/06	Water	Columbia	CN	7/21/06
NPDES Sampling	A7406RTM	7/10/06	Water	Columbia	Metals (10)	7/21/06
NPDES Sampling	A7407C	7/10/06	Water	Aquatec	Acute Toxicity Test	7/31/06
NPDES Sampling	A7407C	7/10/06	Water	Aquatec	Chronic Toxicity Test	
NPDES Sampling	A7407CCN	7/10/06	Water	Columbia	CN	7/21/06
NPDES Sampling	A7407CDM	7/10/06	Water	Columbia	Filtered Metals (8)	7/21/06
NPDES Sampling	A7407CTM	7/10/06	Water	Columbia	Metals (10)	7/21/06
NPDES Sampling	A7408R	7/12/06	Water	Aquatec	Chronic Toxicity Test	
NPDES Sampling	A7408RCN	7/12/06	Water	Columbia	CN	7/21/06
NPDES Sampling	A7408RTM	7/12/06	Water	Columbia	Metals (10)	7/21/06
NPDES Sampling	A7409C	7/12/06	Water	Aquatec	Chronic Toxicity Test	
NPDES Sampling	A7409CCN	7/12/06	Water	Columbia	CN	7/21/06
NPDES Sampling	A7409CDM	7/12/06	Water	Columbia	Filtered Metals (8)	7/21/06
NPDES Sampling	A7409CTM	7/12/06	Water	Columbia	Metals (10)	7/21/06
NPDES Sampling	A7410R	7/14/06	Water	Aquatec	Chronic Toxicity Test	
NPDES Sampling	A7410RCN	7/14/06	Water	Columbia	CN	7/25/06
NPDES Sampling	A7410RTM	7/14/06	Water	Columbia	Metals (10)	7/25/06
NPDES Sampling	A7411C	7/14/06	Water	Aquatec	Chronic Toxicity Test	
NPDES Sampling	A7411CCN	7/14/06	Water	Columbia	CN	7/25/06
NPDES Sampling	A7411CDM	7/14/06	Water	Columbia	Filtered Metals (8)	7/25/06
NPDES Sampling	A7411CTM	7/14/06	Water	Columbia	Metals (10)	7/25/06
NPDES Sampling	JUL06WK1	6/27/06	Water	Columbia	Cu, Pb, Zn	7/7/06

**TABLE A-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING JULY 2006**

**NPDES PERMIT MONITORING
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS**

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
NPDES Sampling	JUL06WK2	7/5/06	Water	Columbia	Cu, Pb, Zn	7/14/06
NPDES Sampling	JUL06WK4	7/18/06	Water	Columbia	Cu, Pb, Zn	7/25/06
NPDES Sampling	JUL06WK5	7/25/06	Water	Columbia	Cu, Pb, Zn	

TABLE A-2
DATA RECEIVED DURING JULY 2006

NPDES PERMIT MONITORING SAMPLING
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	001-A7393 07/04/06	001-A7400 07/04/06	001-A7401 07/05/06	01A-A7412 07/11/06	01A-A7414 07/11/06	005-A7380/A7381 06/20/06	005-A7390/A7391 06/27/06
Volatile Organics								
1,1,1-Trichloroethane		NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane		NA	NA	NA	NA	NA	NA	NA
Chloroethane		NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride		NA	NA	NA	NA	NA	NA	NA
PCBs-Unfiltered								
Aroclor-1260		NA	ND(0.000050)	NA	NA	ND(0.000051)	ND(0.000065)	ND(0.000065)
Total PCBs		NA	ND(0.000050)	NA	NA	ND(0.000051)	ND(0.000065)	ND(0.000065)
Semivolatile Organics								
None Detected		NA	NA	NA	NA	NA	NA	NA
Inorganics-Unfiltered								
Aluminum		NA	NA	NA	NA	NA	NA	NA
Cadmium		NA	NA	NA	NA	NA	NA	NA
Calcium		NA	NA	NA	NA	NA	NA	NA
Chromium		NA	NA	NA	NA	NA	NA	NA
Copper		NA	NA	NA	NA	NA	NA	NA
Cyanide		NA	NA	NA	NA	NA	NA	NA
Lead		NA	NA	NA	NA	NA	NA	NA
Magnesium		NA	NA	NA	NA	NA	NA	NA
Nickel		NA	NA	NA	NA	NA	NA	NA
Silver		NA	NA	NA	NA	NA	NA	NA
Zinc		NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered								
Aluminum		NA	NA	NA	NA	NA	NA	NA
Cadmium		NA	NA	NA	NA	NA	NA	NA
Chromium		NA	NA	NA	NA	NA	NA	NA
Copper		NA	NA	NA	NA	NA	NA	NA
Lead		NA	NA	NA	NA	NA	NA	NA
Nickel		NA	NA	NA	NA	NA	NA	NA
Silver		NA	NA	NA	NA	NA	NA	NA
Zinc		NA	NA	NA	NA	NA	NA	NA
Conventionals								
Biological Oxygen Demand (5-day)		NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids		NA	NA	4.00	NA	NA	NA	NA
Oil & Grease		ND(5.2)	NA	NA	ND(5.0)	NA	NA	NA

TABLE A-2
DATA RECEIVED DURING JULY 2006

NPDES PERMIT MONITORING SAMPLING
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	005-A7402/A7403 07/05/06	005-A7419/A7422 07/10/06	005-A7447/A7448 07/18/06	05A-A7426 07/11/06	05A-A7428 07/11/06	006-A7429 07/11/06	006-A7431 07/11/06
Volatile Organics								
1,1,1-Trichloroethane		NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane		NA	NA	NA	NA	NA	NA	NA
Chloroethane		NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride		NA	NA	NA	NA	NA	NA	NA
PCBs-Unfiltered								
Aroclor-1260		ND(0.000050)	ND(0.00050)	ND(0.000050)	NA	0.0070	NA	0.0020
Total PCBs		ND(0.000050)	ND(0.00050)	ND(0.000050)	NA	0.0070	NA	0.0020
Semivolatile Organics								
None Detected		NA	NA	NA	NA	NA	NA	NA
Inorganics-Unfiltered								
Aluminum		NA	NA	NA	NA	NA	NA	NA
Cadmium		NA	NA	NA	NA	NA	NA	NA
Calcium		NA	NA	NA	NA	NA	NA	NA
Chromium		NA	NA	NA	NA	NA	NA	NA
Copper		NA	NA	NA	NA	NA	NA	NA
Cyanide		NA	NA	NA	NA	NA	NA	NA
Lead		NA	NA	NA	NA	NA	NA	NA
Magnesium		NA	NA	NA	NA	NA	NA	NA
Nickel		NA	NA	NA	NA	NA	NA	NA
Silver		NA	NA	NA	NA	NA	NA	NA
Zinc		NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered								
Aluminum		NA	NA	NA	NA	NA	NA	NA
Cadmium		NA	NA	NA	NA	NA	NA	NA
Chromium		NA	NA	NA	NA	NA	NA	NA
Copper		NA	NA	NA	NA	NA	NA	NA
Lead		NA	NA	NA	NA	NA	NA	NA
Nickel		NA	NA	NA	NA	NA	NA	NA
Silver		NA	NA	NA	NA	NA	NA	NA
Zinc		NA	NA	NA	NA	NA	NA	NA
Conventionals								
Biological Oxygen Demand (5-day)		ND(2.0)	NA	NA	NA	NA	NA	NA
Total Suspended Solids		ND(1.00)	NA	NA	NA	NA	NA	NA
Oil & Grease		NA	NA	NA	ND(5.0)	NA	ND(5.0)	NA

TABLE A-2
DATA RECEIVED DURING JULY 2006

NPDES PERMIT MONITORING SAMPLING
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	09B-A7392 06/27/06	09B-A7415 07/11/06	09B-A7449 07/20/06	09C-A7383 06/25/06	09C-A7423 07/11/06	09C-A7425 07/11/06	64G-A7388 06/26/06	64G-A7398 07/04/06	64G-A7404 07/05/06
Volatile Organics										
1,1,1-Trichloroethane		NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane		NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane		NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride		NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs-Unfiltered										
Aroclor-1260		NA	NA	NA	NA	NA	ND(0.000050)	NA	NA	NA
Total PCBs		NA	NA	NA	NA	NA	ND(0.000050)	NA	NA	NA
Semivolatile Organics										
None Detected		NA	NA	NA	NA	NA	NA	NA	NA	--
Inorganics-Unfiltered										
Aluminum		NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium		NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium		NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium		NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper		NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide		NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead		NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium		NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel		NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered										
Aluminum		NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium		NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium		NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper		NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead		NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel		NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		NA	NA	NA	NA	NA	NA	NA	NA	NA
Conventionals										
Biological Oxygen Demand (5-day)		ND(2.0)	ND(2.0)	ND(2.0)	NA	NA	NA	NA	NA	NA
Total Suspended Solids		8.30	3.63	5.38	NA	NA	NA	NA	NA	NA
Oil & Grease		NA	NA	NA	ND(5.0)	ND(5.0)	NA	ND(5.0)	ND(5.2)	NA

TABLE A-2
DATA RECEIVED DURING JULY 2006

NPDES PERMIT MONITORING SAMPLING
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	64G-A7405 07/05/06	64G-A7420 07/10/06	64G-A7444 07/17/06	64T-A7385 06/26/06	64T-A7396 07/04/06	64T-A7417 07/10/06	64T-A7442 07/17/06	A7406RCN 07/10/06	A7406RTM 07/10/06
Volatile Organics										
1,1,1-Trichloroethane		0.00030 J	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane		0.00039 J	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane		0.00070 J	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride		0.00023 J	NA	NA	NA	NA	NA	NA	NA	NA
PCBs-Unfiltered										
Aroclor-1260		NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs		NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organics										
None Detected		NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Unfiltered										
Aluminum		NA	NA	NA	NA	NA	NA	NA	NA	ND(0.100)
Cadmium		NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00500)
Calcium		NA	NA	NA	NA	NA	NA	NA	NA	24.4
Chromium		NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0100)
Copper		NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0200)
Cyanide		NA	NA	NA	NA	NA	NA	NA	ND(0.0100)	NA
Lead		NA	NA	NA	NA	NA	NA	NA	NA	ND(0.00500)
Magnesium		NA	NA	NA	NA	NA	NA	NA	NA	8.72
Nickel		NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0400)
Silver		NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0100)
Zinc		NA	NA	NA	NA	NA	NA	NA	NA	ND(0.0200)
Inorganics-Filtered										
Aluminum		NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium		NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium		NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper		NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead		NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel		NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver		NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		NA	NA	NA	NA	NA	NA	NA	NA	NA
Conventionals										
Biological Oxygen Demand (5-day)		NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids		NA	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease		NA	ND(5.0)	ND(5.2)	ND(5.0)	ND(5.2)	ND(5.0)	ND(5.2)	NA	NA

TABLE A-2
DATA RECEIVED DURING JULY 2006

NPDES PERMIT MONITORING SAMPLING
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter	Sample ID: Date Collected:	A7407CCN 07/10/06	A7407CDM 07/10/06	A7407CTM 07/10/06	A7408RCN 07/12/06	A7408RTM 07/12/06	A7409CCN 07/12/06	A7409CDM 07/12/06	A7409CTM 07/12/06
Volatile Organics									
1,1,1-Trichloroethane		NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane		NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane		NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride		NA	NA	NA	NA	NA	NA	NA	NA
PCBs-Unfiltered									
Aroclor-1260		NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs		NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organics									
None Detected		NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Unfiltered									
Aluminum		NA	NA	ND(0.100)	NA	ND(0.100)	NA	NA	0.222
Cadmium		NA	NA	ND(0.00500)	NA	ND(0.00500)	NA	NA	ND(0.00500)
Calcium		NA	NA	93.9	NA	26.8	NA	NA	67.7
Chromium		NA	NA	ND(0.0100)	NA	ND(0.0100)	NA	NA	ND(0.0100)
Copper		NA	NA	ND(0.0200)	NA	ND(0.0200)	NA	NA	ND(0.0200)
Cyanide		0.0500	NA	NA	ND(0.0100)	NA	0.0258	NA	NA
Lead		NA	NA	ND(0.00500)	NA	ND(0.00500)	NA	NA	0.00620
Magnesium		NA	NA	38.0	NA	9.74	NA	NA	26.9
Nickel		NA	NA	ND(0.0400)	NA	ND(0.0400)	NA	NA	ND(0.0400)
Silver		NA	NA	ND(0.0100)	NA	ND(0.0100)	NA	NA	ND(0.0100)
Zinc		NA	NA	ND(0.0200)	NA	ND(0.0200)	NA	NA	0.0589
Inorganics-Filtered									
Aluminum		NA	ND(0.100)	NA	NA	NA	NA	ND(0.100)	NA
Cadmium		NA	ND(0.00500)	NA	NA	NA	NA	ND(0.00500)	NA
Chromium		NA	ND(0.0100)	NA	NA	NA	NA	ND(0.0100)	NA
Copper		NA	ND(0.0200)	NA	NA	NA	NA	ND(0.0200)	NA
Lead		NA	ND(0.00500)	NA	NA	NA	NA	ND(0.00500)	NA
Nickel		NA	ND(0.0400)	NA	NA	NA	NA	ND(0.0400)	NA
Silver		NA	ND(0.0100)	NA	NA	NA	NA	ND(0.0100)	NA
Zinc		NA	ND(0.0200)	NA	NA	NA	NA	0.0499	NA
Conventionals									
Biological Oxygen Demand (5-day)		NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids		NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease		NA	NA	NA	NA	NA	NA	NA	NA

**TABLE A-2
DATA RECEIVED DURING JULY 2006**

**NPDES PERMIT MONITORING SAMPLING
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)**

Parameter	Sample ID: Date Collected:	A7410RCN 07/14/06	A7410RTM 07/14/06	A7411CCN 07/14/06	A7411CDM 07/14/06	A7411CTM 07/14/06	JUL06WK1 06/27/06	JUL06WK2 07/05/06	JUL06WK4 07/18/06
Volatile Organics									
1,1,1-Trichloroethane		NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane		NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane		NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride		NA	NA	NA	NA	NA	NA	NA	NA
PCBs-Unfiltered									
Aroclor-1260		NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs		NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organics									
None Detected		NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Unfiltered									
Aluminum		NA	0.123	NA	NA	ND(0.100)	NA	NA	NA
Cadmium		NA	ND(0.00500)	NA	NA	ND(0.00500)	NA	NA	NA
Calcium		NA	15.8	NA	NA	59.8	NA	NA	NA
Chromium		NA	ND(0.0100)	NA	NA	ND(0.0100)	NA	NA	NA
Copper		NA	ND(0.0200)	NA	NA	ND(0.0200)	ND(0.0200)	ND(0.0200)	ND(0.0200)
Cyanide		ND(0.0100)	NA	0.0314	NA	NA	NA	NA	NA
Lead		NA	ND(0.00500)	NA	NA	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)
Magnesium		NA	5.46	NA	NA	23.5	NA	NA	NA
Nickel		NA	ND(0.0400)	NA	NA	ND(0.0400)	NA	NA	NA
Silver		NA	ND(0.0100)	NA	NA	ND(0.0100)	NA	NA	NA
Zinc		NA	ND(0.0200)	NA	NA	0.0294	0.0205	ND(0.0200)	ND(0.0200)
Inorganics-Filtered									
Aluminum		NA	NA	NA	ND(0.100)	NA	NA	NA	NA
Cadmium		NA	NA	NA	ND(0.00500)	NA	NA	NA	NA
Chromium		NA	NA	NA	ND(0.0100)	NA	NA	NA	NA
Copper		NA	NA	NA	ND(0.0200)	NA	NA	NA	NA
Lead		NA	NA	NA	ND(0.00500)	NA	NA	NA	NA
Nickel		NA	NA	NA	ND(0.0400)	NA	NA	NA	NA
Silver		NA	NA	NA	ND(0.0100)	NA	NA	NA	NA
Zinc		NA	NA	NA	0.0364	NA	NA	NA	NA
Conventionals									
Biological Oxygen Demand (5-day)		NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids		NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease		NA	NA	NA	NA	NA	NA	NA	NA

Notes:

1. Samples were collected by General Electric Company and submitted to Accutest Laboratories, Columbia Analytical Services, Inc., and SGS Environmental Services, Inc. for analysis of volatiles, PCBs, semivolatiles, cyanide, TSS, BOD, oil & grease, and metals (filtered and unfiltered).
2. NA - Not Analyzed.
3. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.
4. With the exception of inorganics and conventional parameters, only those constituents detected in one or more samples are summarized.
5. -- Indicates that all constituents for the parameter group were not detected.

Data Qualifiers:

Organics

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

Attachment B

NPDES Discharge Monitoring Reports June 2006

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME GENERAL ELECTRIC CORPORATION
 ADDRESS ATTN: JEFFREY G. RUEBESAM
 100 WOODLAWN AVENUE
 PITTSFIELD MA 01201
 FACILITY GENERAL ELECTRIC COMPANY
 LOCATION PITTSFIELD MA 01201
 ATTN: MICHAEL T CARROLL, EHS&F

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

MA0003891 PERMIT NUMBER
 0051 DISCHARGE NUMBER

MAJOR (SUBR W)
 F - FINAL
 WATERS TO HOUSATONIC RIVER

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
06	06	01	06	06	30

*** NO DISCHARGE ! ***
 NOTE: Read Instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C) 00310 T O O SEE COMMENTS BELOW	0	0	(26) LBS/DY	*****	*****	*****	*****	0	01/30	CP	
	PERMIT REQUIREMENT	90 MD AVG	135 DAILY MX	LBS/DY	*****	*****	*****	****	ONCE/ MONTH	COMPOS	
SOLIDS, TOTAL SUSPENDED 00530 T O O SEE COMMENTS BELOW	0	0	(26) LBS/DY	*****	*****	*****	*****	0	01/30	CP	
	PERMIT REQUIREMENT	188 MD AVG	270 DAILY MX	LBS/DY	*****	*****	*****	****	ONCE/ MONTH	COMPOS	
OIL & GREASE 00556 T O O SEE COMMENTS BELOW	*****	23.3	(26) LBS/DY	*****	*****	5.2	(19) MG/L	0	01/07	GR	
	PERMIT REQUIREMENT	*****	135 DAILY MX	LBS/DY	*****	*****	15 DAILY MX MG/L	****	WEEKLY	GRAB	
POLYCHLORINATED BIPHENYLS (PCBS) 39516 T O O SEE COMMENTS BELOW	0.00002	0.00006	(26) LBS/DY	*****	*****	*****	*****	0	01/07	CP	
	PERMIT REQUIREMENT	0.01 MD AVG	0.03 DAILY MX	LBS/DY	*****	*****	*****	****	WEEKLY	COMPOS	
FLOW, IN CONDUIT OR THRU TREATMENT PLAN 50050 T O O SEE COMMENTS BELOW	0.228	0.409	(.03) MGD	*****	*****	*****	*****	0	99/99	RC	
	PERMIT REQUIREMENT	2.09 MD AVG	2.09 DAILY MX	MGD	*****	*****	*****	****	CONTINUOUS	RECORD	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Michael T. Carroll
 Mgr. Pittsfield Remediation Prog.
 TYPED OR PRINTED

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

Michael T. Carroll
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 413 448-5902
 DATE 2006 7 24
 AREA CODE NUMBER YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 SEE PAGE 8 + 9 OF PERMIT FOR SAMPLING REQUIREMENTS. SEE DMR(S) 064G + 064T FOR FURTHER PARAMETERS.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

MAJOR
(SUBR W-)
F - FINAL:
GROUNDWATER TREATMENT (005)

*** NO DISCHARGE ***
NOTE: Read instructions before completing this form.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME GENERAL ELECTRIC CORPORATION
ADDRESS ATTN: JEFFREY G. RUEBESAM
100 BODDLAWN AVENUE
PITTSFIELD MA 01201
FACILITY GENERAL ELECTRIC COMPANY
LOCATION PITTSFIELD MA 01201
ATTN: MICHAEL T. CARROLL, EHS&F

MA0003891
PERMIT NUMBER
0640
DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
06	06	01		06	06	30

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	*****	*****			7.4	*****	7.6	(12) SU	0	99/99	RCDR
00400 T 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	*****	0.0 MINIMUM	*****	9.0 MAXIMUM	SU		WEEKLY	RANG-C
BASE NEUTRALS & ACID (METHOD 625) TOTAL	*****	*****			*****	0	0	(19) MG/L	0	01/90	GR
76030 T 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MD AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB
VOLATILE COMPOUNDS, (GC/MS)	*****	*****			*****	0	0	(19) MG/L	0	01/90	GR
76752 T 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MD AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael T. Carroll Mgr. Pittsfield Remediation Prog.	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE		
		413 448-5902	2006	7	24	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>Michael T. Carroll</i>	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
SEE COMMENTS FOR 0051. SEE PAGE 8 + 9 OF PERMIT.

NAME GENERAL ELECTRIC CORPORATION
 ADDRESS ATTN: JEFFREY G. RUEBESAM
 100 WOODLAWN AVENUE
 PITTSFIELD MA 01201
 FACILITY GENERAL ELECTRIC COMPANY
 LOCATION PITTSFIELD MA 01201
 ATTN: MICHAEL T CARROLL, EHS&F

MA0003891
 PERMIT NUMBER

064 T
 DISCHARGE NUMBER

MAJOR (SUBR W)
 F - FINAL
 WASTEWATER TREATMENT (005)

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
06	06	01		06	06	30

FROM

TO

*** NO DISCHARGE [] ***

NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	*****	*****		6.5	*****	8.3	(12) SU	0	99/99	RCDR
00400 T O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		WEEKLY	RANG-C
DIBENZOFURAN	SAMPLE MEASUREMENT	*****	*****		*****	NODI [6]	NODI [6]	(22)			
81302 T O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MO AVG	REPORT DAILY MX	PPT		ONCE / MONTH	COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Michael T. Carroll
 Mgr. Pittsfield Remediation Prog.

TYPED OR PRINTED

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

W. T. Carroll
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

413 448-5902

AREA CODE NUMBER

DATE

2006 7 24

YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SEE COMMENTS FOR 0051. SEE PAGE 8 + 9 OF PERMIT.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

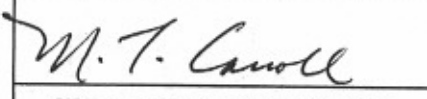
PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME GENERAL ELECTRIC CORPORATION
 ADDRESS ATTN: JEFFREY G. RUEBESAM
 100 WOODLAWN AVENUE
 PITTSFIELD MA 01201
 FACILITY GENERAL ELECTRIC COMPANY
 LOCATION PITTSFIELD MA 01201
 ATTN: MICHAEL T. CARROLL, EHS&F

MA0003891		007 1			
PERMIT NUMBER		DISCHARGE NUMBER			
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
06	06	01	06	06	30

MAJOR (SUBR W)
 F - FINAL
 DISCHARGE TO HOUSATONIC RIVER

*** NO DISCHARGE ~~1~~ ***
 NOTE: Read instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG FAHRENHEIT 0001: W O O SEE COMMENTS BELOW	SAMPLE MEASUREMENT	*****	*****		*****			(15)			
	PERMIT REQUIREMENT	*****	*****	****	*****	70 MD AVG	75 DAILY MX	DEG. F		ONCE/ MONTH	GRAB
PH 00400 W O O SEE COMMENTS BELOW	SAMPLE MEASUREMENT	*****	*****			*****		(12)			
	PERMIT REQUIREMENT	*****	*****	****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		WEEKLY	RANG-C
POLYCHLORINATED BIPHENYLS (PCBS) 39516 W O O SEE COMMENTS BELOW	SAMPLE MEASUREMENT	*****	*****		*****			(21)			
	PERMIT REQUIREMENT	*****	*****	****	*****	REPORT MD AVG	REPORT DAILY MX	PPB		QTRLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 W O O SEE COMMENTS BELOW	SAMPLE MEASUREMENT			(03)	*****	*****	*****				
	PERMIT REQUIREMENT	REPORT MD AVG	REPORT DAILY MX	MGD	*****	*****	*****	****		ONCE/ MONTH	CALCTD
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael T. Carroll Mgr. Pittsfield Remediation Prog. TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			413 448-5902	2006	7	24	
			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 SAMPLE AT MANHOLE PRIOR TO CITY STORM DRAIN.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)


MAJOR
(SUBR W)
F - FINAL
09A SAMPLE POINT BEFORE 009

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME GENERAL ELECTRIC CORPORATION
ADDRESS ATTN: JEFFREY G. RUEBESAM
100 WOODLAWN AVENUE
PITTSFIELD MA 01201
FACILITY GENERAL ELECTRIC COMPANY
LOCATION PITTSFIELD MA 01201
ATTN: MICHAEL T. CARROLL, EHS&F

MA0003891			009 A			
PERMIT NUMBER			DISCHARGE NUMBER			
MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
06	06	01		06	06	30

*** NO DISCHARGE ~~1~~ ***
NOTE: Read Instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C) 00310 V O O SEE COMMENTS BELOW				(26)	*****	*****	*****				
	PERMIT REQUIREMENT	106 MO AVG	438 DAILY MX	LBS/DY	*****	*****	*****	****		WEEKLY	COMPOS
SOLIDS, TOTAL SUSPENDED 00530 V O O SEE COMMENTS BELOW				(26)	*****	*****	*****				
	PERMIT REQUIREMENT	213 MO AVG	876 DAILY MX	LBS/DY	*****	*****	*****	****		WEEKLY	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLAN 50050 V O O SEE COMMENTS BELOW				(03)	*****	*****	*****				
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	*****	*****	*****	****		CONTINR	CORDR UDUS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael T. Carroll Mgr. Pittsfield Remediation Prog. TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE			
			413 448-5902	2006	7	24	
			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
SEE PAGE 11 OF PERMIT. SEE DMR 0091. SAMPLE AT 09A.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME GENERAL ELECTRIC CORPORATION
 ADDRESS ATTN: JEFFREY G. RUEBESAM
 100 WOODLAWN AVENUE
 PITTSFIELD MA 01201
 FACILITY GENERAL ELECTRIC COMPANY
 LOCATION PITTSFIELD MA 01201
 ATTN: MICHAEL T. CARROLL, EHS&F

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

MA0003891			009 B		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
06	06	01	06	06	30

MAJOR (SUBR W)
 F - FINAL
 09B SAMPLE POINT PRIOR TO 009

*** NO DISCHARGE !!! ***
 NOTE: Read Instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BCD, 5-DAY (20 DEG. C) 00310 V O O SEE COMMENTS BELOW	SAMPLE MEASUREMENT	2.5	10.1	(26) LBS/DY	*****	*****	*****	*****	0	01/07	CP
	PERMIT REQUIREMENT	106 MD AVG	438 DAILY MX	LBS/DY	*****	*****	*****	*****		WEEKLY	COMPOS
SOLIDS, TOTAL SUSPENDED 00530 V O O SEE COMMENTS BELOW	SAMPLE MEASUREMENT	32.6	128.0	(26) LBS/DY	*****	*****	*****	*****	0	01/07	CP
	PERMIT REQUIREMENT	213 MD AVG	876 DAILY MX	LBS/DY	*****	*****	*****	*****		WEEKLY	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 V O O SEE COMMENTS BELOW	SAMPLE MEASUREMENT	0.051	0.247	(03) MGD	*****	*****	*****	*****	0	99/99	RC
	PERMIT REQUIREMENT	REPORT MD AVG	REPORT DAILY MX	MGD	*****	*****	*****	*****		CONTINUOUS	RECORD
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael T. Carroll Mgr. Pittsfield Remediation Prog.	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE 413 448-5902	DATE			
			AREA CODE	NUMBER	YEAR	MO
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>M.T. Carroll</i>					

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 SEE PAGE 11 OF PERMIT. SEE DMR 0091; SAMPLE AT 09B.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

MAJOR
(SUBR W)
F - FINAL
PROCESSES TO UNKAMET BROOK

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME GENERAL ELECTRIC CORPORATION
ADDRESS ATTN: JEFFREY G. RUEBESAM
100 WOODLAWN AVENUE
PITTSFIELD MA 01201
FACILITY GENERAL ELECTRIC COMPANY
LOCATION PITTSFIELD MA 01201
ATTN: MICHAEL T CARROLL, EHS&F

MA0003891		009 1				
PERMIT NUMBER		DISCHARGE NUMBER				
MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
06	06	01		06	06	30

*** NO DISCHARGE 1-1 ***
NOTE: Read Instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C) 00310 V O O SEE COMMENTS BELOW	PH	2.5	10.1	(26) LBS/DY	*****	*****	*****	*****	0	01/07	CP
	PERMIT REQUIREMENT	106 MD AVG	438 DAILY MX	LBS/DY	*****	*****	*****	*****		WEEKLY	COMPOS
PH	00400 V O O SEE COMMENTS BELOW	*****	*****	*****	7.0	*****	7.8	(12)	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		WEEKLY	RANG--C
SOLIDS, TOTAL SUSPENDED 00530 V O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	213 MD AVG	876 DAILY MX	LBS/DY	*****	*****	*****	*****	0	01/07	CP
DIL & GREASE	00556 V O O SEE COMMENTS BELOW	*****	0.7	(26) LBS/DY	*****	*****	5.2	(19)	0	01/07	GR
	PERMIT REQUIREMENT	*****	438 DAILY MX	LBS/DY	*****	*****	15 DAILY MX	MG/L		WEEKLY	GRAB
POLYCHLORINATED BIPHENYLS (PCBS) 39516 V O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	*****	*****	0.00004	0.00004	(19)	0	01/90	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MD AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLAN 50050 V O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	0.051	0.247	(03) MGD	*****	*****	*****	*****	0	99/99	RC
	PERMIT REQUIREMENT	REPORT MD AVG	REPORT DAILY MX	MGD	*****	*****	*****	*****		CONTIN	RCORDR
	PERMIT REQUIREMENT									UOUS	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael T. Carroll Mgr. Pittsfield Remediation Prog. TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>M. T. Carroll</i>	TELEPHONE		DATE		
			AREA CODE	NUMBER	YEAR	MO	DAY
			413	448-5902	2006	7	24

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
SEE PAGE 11 OF PERMIT. SEE DMRS 009A + 009B. REPORT SUM OF LOAD 09A + 09B, FOR BOD, TSS, FLOW. SAMPLE AT DISCHARGE POINT TO BROOK FOR PH, OIL & GREASE, AND PCB.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME GENERAL ELECTRIC CORPORATION
ADDRESS ATTN: JEFFREY G. RUEBESAM
100 WOODLAWN AVENUE
PITTSFIELD MA 01201
FACILITY GENERAL ELECTRIC COMPANY
LOCATION PITTSFIELD MA 01201
ATTN: MICHAEL T CARROLL, EHS&F

MA0003891
PERMIT NUMBER

SUM A
DISCHARGE NUMBER

MAJOR (SUBR W)
F - FINAL
METALS: 001, 004, 005, 007, 009, 011

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
06	06	01		06	06	30

FROM

*** NO DISCHARGE 1 | 1 ***
NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PHOSPHORUS, TOTAL (AS P) 00665 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	0	(26) LBS/DY	*****	*****	*****	*****	0	01/30	CP
	PERMIT REQUIREMENT	*****	REPORT DAILY MX	LBS/DY	*****	*****	*****	*****		ONCE/MONTH	COMPOS
NICKEL TOTAL RECOVERABLE 01074 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	0	(26) LBS/DY	*****	*****	*****	*****	0	01/30	CP
	PERMIT REQUIREMENT	*****	REPORT DAILY MX	LBS/DY	*****	*****	*****	*****		ONCE/MONTH	COMPOS
SILVER TOTAL RECOVERABLE 01079 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	0	(26) LBS/DY	*****	*****	*****	*****	0	01/30	CP
	PERMIT REQUIREMENT	*****	REPORT DAILY MX	LBS/DY	*****	*****	*****	*****		ONCE/MONTH	COMPOS
ZINC TOTAL RECOVERABLE 01094 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	0.4	(26) LBS/DY	*****	*****	*****	*****	0	01/07	CP
	PERMIT REQUIREMENT	*****	REPORT DAILY MX	LBS/DY	*****	*****	*****	*****		WEEKLY	COMPOS
ALUMINUM, TOTAL (AS AL) 01105 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	0	(26) LBS/DY	*****	*****	*****	*****	0	01/30	CP
	PERMIT REQUIREMENT	*****	REPORT DAILY MX	LBS/DY	*****	*****	*****	*****		ONCE/MONTH	COMPOS
CADMIUM TOTAL RECOVERABLE 01113 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	0.001	(26) LBS/DY	*****	*****	*****	*****	0	01/30	CP
	PERMIT REQUIREMENT	*****	REPORT DAILY MX	LBS/DY	*****	*****	*****	*****		ONCE/MONTH	COMPOS
LEAD TOTAL RECOVERABLE 01114 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	0.09	(26) LBS/DY	*****	*****	*****	*****	0	01/07	CP
	PERMIT REQUIREMENT	*****	REPORT DAILY MX	LBS/DY	*****	*****	*****	*****		WEEKLY	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Michael T. Carroll
Mgr. Pittsfield Remediation Prog.
TYPED OR PRINTED

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

M. T. Carroll
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
413	448-5902	2006	7	24
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
COMPOSITE PROPORTIONATE TO FLOW.

NAME GENERAL ELECTRIC CORPORATION
 ADDRESS ATTN: JEFFREY G. RUEBESAM
 100 WOODLAWN AVENUE
 PITTSFIELD MA 01201
 FACILITY GENERAL ELECTRIC COMPANY
 LOCATION PITTSFIELD MA 01201
 ATTN: MICHAEL T CARROLL, EHS&F

MA0003891
 PERMIT NUMBER

SUM A
 DISCHARGE NUMBER

MAJOR (SUBR W)
 F - FINAL
 METALS: 001, 004, 005, 007, 009, 011

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
06	06	01		06	06	30

FROM

TO

*** NO DISCHARGE [] ***

NOTE: Read Instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
CHROMIUM TOTAL RECOVERABLE 01118 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	0.003	(26) LBS/DY	*****	*****	*****	*****	0	01/30	CP
	PERMIT REQUIREMENT	*****	REPORT DAILY MX	LBS/DY	*****	*****	*****	*****		ONCE/ MONTH	COMPOS
COPPER TOTAL RECOVERABLE 01119 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	0	(26) LBS/DY	*****	*****	*****	*****	0	01/07	CP
	PERMIT REQUIREMENT	*****	REPORT DAILY MX	LBS/DY	*****	*****	*****	*****		WEEKLY	COMPOS
CYANIDE, TOTAL RECOVERABLE 78248 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	0.08	(26) LBS/DY	*****	*****	*****	*****	0	01/30	CP
	PERMIT REQUIREMENT	*****	REPORT DAILY MX	LBS/DY	*****	*****	*****	*****		ONCE/ MONTH	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Michael T. Carroll
 Mgr. Pittsfield Remediation Prog.
 TYPED OR PRINTED

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

M. T. Carroll
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
413 448-5902		2006	7	24
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

COMPOSITE PROPORTIONATE TO FLOW.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

MAJOR
(SUBR W)
F - FINAL
TOXICS: 001, 004, 005, 007, 009, 011

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME GENERAL ELECTRIC CORPORATION
ADDRESS ATTN: JEFFREY G. RUEBESAM
100 WOODLAWN AVENUE
PITTSFIELD MA 01201
FACILITY GENERAL ELECTRIC COMPANY
LOCATION PITTSFIELD MA 01201
ATTN: MICHAEL T CARROLL, EHS&F

MA0003891		SUM B				
PERMIT NUMBER		DISCHARGE NUMBER				
MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
05	06	01		05	06	30

*** NO DISCHARGE 1 1 ***
NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
NOAEL STATRE 48HR AC U D. PULEX TDM3D 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		100	*****	*****	(23)	0	01/30	CP
	PERMIT REQUIREMENT	*****	*****	****	35	*****	*****	% PER-CENT		ONCE/MONTH	COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Michael T. Carroll
Mgr. Pittsfield Remediation Prog.
TYPED OR PRINTED

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M. T. Carroll
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
413 448-5902		2006	7	24
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
MONTHLY DRY WEATHER TESTING. COMPOSITE PROPORTIONATE TO FLOW. FOR JULY, AUG., SEPT. REPORT ACUTE AND CHRONIC. SEE DMR SUMC FOR QUARTERLY WET WEATHER ACUTE. WET WEATHER RESULTS ON DMR SUMC. SUBMIT THIS DMR WITH A NODI '9' WHEN SUBMITTING

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME GENERAL ELECTRIC CORPORATION
 ADDRESS ATTN: JEFFREY G. RUEBESAM
 100 WOODLAWN AVENUE
 PITTSFIELD MA 01201
 FACILITY GENERAL ELECTRIC COMPANY
 LOCATION PITTSFIELD MA 01201
 ATTN: MICHAEL T CARROLL, EHS&F

MA0003891		005 A					
PERMIT NUMBER		DISCHARGE NUMBER					
MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	06	04	01		06	06	30

MAJOR (SUBR W)
 F - FINAL
 NON PROCESS/STORMWATER BYPASS

*** NO DISCHARGE | | ***
 NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****		7.6	*****	7.6	(12)	0	01/90	GR
00400 S O O SEE COMMENTS BELOW		*****	*****	****	6.0	*****	9.0	SU		QTRLY	RANG-C
				****	MINIMUM		MAXIMUM	SU			
PH		*****	*****		NODI C	*****	NODI C	(12)			
00400 U O O SEE COMMENTS BELOW		*****	*****	****	6.0	*****	9.0	SU		QTRLY	RANG-C
				****	MINIMUM		MAXIMUM	SU			
OIL & GREASE		*****	*****		*****	*****	5.2	(20)	0	01/90	GR
00556 S O O SEE COMMENTS BELOW		*****	*****	****	*****	*****	15	PPM		QTRLY	GRAB
				****			DAILY MX	PPM			
OIL & GREASE		*****	*****		*****	*****	NODI C	(20)			
00556 U O O SEE COMMENTS BELOW		*****	*****	****	*****	*****	15	PPM		QTRLY	GRAB
				****			DAILY MX	PPM			
POLYCHLORINATED BIPHENYLS (PCBS)		*****	*****		*****	*****	0.7	(21)	0	01/90	GR
39516 S O O SEE COMMENTS BELOW		*****	*****	****	*****	*****	REPORT	PPB		QTRLY	GRAB
				****			DAILY MX	PPB			
POLYCHLORINATED BIPHENYLS (PCBS)		*****	*****		*****	*****	NODI C	(21)			
39516 U O O SEE COMMENTS BELOW		*****	*****	****	*****	*****	REPORT	PPB		QTRLY	GRAB
				****			DAILY MX	PPB			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		*****	1.05	(03)	*****	*****	*****		0	01/90	ES
50050 S O O SEE COMMENTS BELOW		*****	REPORT	MGD	*****	*****	*****	****		QTRLY	ESTIMA
			DAILY MX	MGD				****			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael T. Carroll Mgr. Pittsfield Remediation Prog.	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE		
		413 494-3500		2006	7	24
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>M. T. Carroll</i>	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 QUARTERLY. SAMPLE AT POINT OF DISCHARGE. SEE PAGES 16-17 FOR WET WEATHER REQUIREMENTS FOR LIMITS WITH MONITORING LOCATION OF 'S'. SEE PAGE 18 FOR DRY WEATHER REQUIREMENTS FOR LIMITS WITH MONITORING LOCATION OF 'U'. IF NO DISCHARGE USE '9'

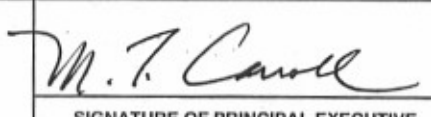
NAME GENERAL ELECTRIC CORPORATION
 ADDRESS ATTN: JEFFREY G. RUEBESAM
 100 WOODLAWN AVENUE
 PITTSFIELD MA 01201
 FACILITY GENERAL ELECTRIC COMPANY
 LOCATION PITTSFIELD MA 01201
 ATTN: MICHAEL T CARROLL, EHS&F

MA0003891	005 A
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
FROM	TO
YEAR MO DAY	YEAR MO DAY
06 04 01	06 06 30

MAJOR (SUBR W)
 F - FINAL
 NON PROCESS/STORMWATER BYPASS

*** NO DISCHARGE 1 | 1 ***
 NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 U O O SEE COMMENTS BELOW	SAMPLE MEASUREMENT	*****	NODI [C]	(03)	*****	*****	*****				
	PERMIT REQUIREMENT	*****	REPORT DAILY MX	MGD	*****	*****	*****	****		QTRLY	ESTIMA
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael T. Carroll Mgr. Pittsfield Remediation Prog. TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE			
			413 494-3500	2006	7	24	
			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 QUARTERLY. SAMPLE AT POINT OF DISCHARGE. SEE PAGES 16-17 FOR WET WEATHER REQUIREMENTS FOR LIMITS WITH MONITORING LOCATION OF 'S'. SEE PAGE 18 FOR DRY WEATHER REQUIREMENTS FOR LIMITS WITH MONITORING LOCATION OF 'U'. IF NO DISCHARGE USE '9'

NAME GENERAL ELECTRIC CORPORATION
 ADDRESS ATTN: JEFFREY G. RUEBESAM
 100 WOODLAWN AVENUE
 PITTSFIELD MA 01201
 FACILITY GENERAL ELECTRIC COMPANY
 LOCATION PITTSFIELD MA 01201
 ATTN: MICHAEL T. CARROLL, EHS&F

MA0003891
 PERMIT NUMBER

005 B
 DISCHARGE NUMBER

MAJOR (SUBR W)
 F - FINAL
 NON PROCESS/STORMWATER BYPASS

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
06	04	01		06	04	30

*** NO DISCHARGE [] ***
 NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	*****	*****		8.6	*****	8.6	(12) SU	0	01/90	GR
00400 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		QTRLY	RANG-C
OIL & GREASE	SAMPLE MEASUREMENT	*****	*****		*****	*****	0	(20) PPM	0	01/90	GR
00556 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	*****	*****	15 DAILY MX	PPM		QTRLY	GRAB
POLYCHLORINATED BIPHENYLS (PCBS)	SAMPLE MEASUREMENT	*****	*****		*****	*****	5.4	(21) PPB	0	01/90	GR
39516 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	PPB		QTRLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLAN	SAMPLE MEASUREMENT	*****	0.029	(03) MGD	*****	*****	*****		0	01/90	ES
50050 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	REPORT DAILY MX	MGD	*****	*****	*****	****		QTRLY	ESTIMA
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael T. Carroll Mgr. Pittsfield Remediation Prog.	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE		DATE		
		413 494-3500		2006	7	24
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>M. T. Carroll</i>	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

QUARTERLY. SAMPLE AT POINT OF DISCHARGE.

PERMITTEE NAME/ADDRESS (include facility name/location if different)
NAME GENERAL ELECTRIC CORPORATION
ADDRESS ATTN: JEFFREY G. RUEBESAM
 100 WOODLAWN AVENUE
 PITTSFIELD MA 01201
FACILITY GENERAL ELECTRIC COMPANY
LOCATION PITTSFIELD MA 01201
 ATTN: MICHAEL T. CARROLL, EHS&F

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

MA0003891 PERMIT NUMBER
 006 1 DISCHARGE NUMBER

MAJOR (SUBR W)
 F - FINAL
 NON PROCESS/STORMWATER BYPASS

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
06	04	01		06	04	30

*** NO DISCHARGE I... ***
 NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****		7.4	*****	7.4	(12)	0	01/90	GR
00400 S O O SEE COMMENTS BELOW		*****	*****	****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		QTRLY	RANG-C
PH		*****	*****		NODI [C]	*****	NODI [C]	(12)			
00400 U O O SEE COMMENTS BELOW		*****	*****	****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		QTRLY	RANG-C
OIL & GREASE		*****	*****		*****	*****	5.2	(20)	0	01/90	GR
00556 S O O SEE COMMENTS BELOW		*****	*****	****	*****	*****	15 DAILY MX	PPM		QTRLY	GRAB
OIL & GREASE		*****	*****		*****	*****	NODI [C]	(20)			
00556 U O O SEE COMMENTS BELOW		*****	*****	****	*****	*****	15 DAILY MX	PPM		QTRLY	GRAB
POLYCHLORINATED BIPHENYLS (PCBS)		*****	*****		*****	*****	0.11	(21)	0	01/90	GR
39516 S O O SEE COMMENTS BELOW		*****	*****	****	*****	*****	REPORT DAILY MX	PPB		QTRLY	GRAB
POLYCHLORINATED BIPHENYLS (PCBS)		*****	*****		*****	*****	NODI [C]	(21)			
39516 U O O SEE COMMENTS BELOW		*****	*****	****	*****	*****	REPORT DAILY MX	PPB		QTRLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLAN		*****	0.203	(03)	*****	*****	*****		0	01/90	ES
50050 S O O SEE COMMENTS BELOW		*****	REPORT DAILY MX	MGD	*****	*****	*****	****		QTRLY	ESTIMA

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Michael T. Carroll
 Mgr. Pittsfield Remediation Prog.
 TYPED OR PRINTED

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

M. T. Carroll
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE DATE
 413 494-3500 2006 7 24
 AREA CODE NUMBER YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 QUARTERLY. SAMPLE AT POINT OF DISCHARGE. SEE PAGES 16-17 FOR WET WEATHER REQUIREMENTS. FOR LIMITS WITH MONITORING LOCATION OF 'S'. SEE PAGE 18 FOR DRY WEATHER REQUIREMENTS FOR LIMITS WITH MONITORING LOCATION OF 'W'. IF NO DISCHARGE USE '9'.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME GENERAL ELECTRIC CORPORATION
ADDRESS ATTN: JEFFREY G. RUEBESAM
100 WOODLAWN AVENUE
PITTSFIELD MA 01201
FACILITY GENERAL ELECTRIC COMPANY
LOCATION PITTSFIELD MA 01201
ATTN: MICHAEL T. CARROLL, EHS&F

MA0003891
PERMIT NUMBER

006 1
DISCHARGE NUMBER

MAJOR (SUBR W)
F - FINAL
NON PROCESS/STORMWATER BYPASS

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
06	04	01		06	06	30

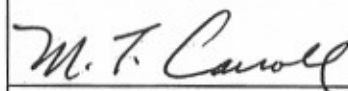
*** NO DISCHARGE 1 1 ***

NOTE: Read Instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 U O O SEE COMMENTS BELOW	SAMPLE MEASUREMENT	*****		(03)	*****	*****	*****				
	PERMIT REQUIREMENT	*****	NODIC REPORT DAILY MX	MGD	*****	*****	*****	****		QTRLY	ESTIMA
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Michael T. Carroll
Mgr. Pittsfield Remediation Prog.
TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
413	494-3500	2006	7	24
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

QUARTERLY. SAMPLE AT POINT OF DISCHARGE. SEE PAGES 16-17 FOR WET WEATHER REQUIREMENTS. FOR LIMITS WITH MONITORING LOCATION OF 'S'. SEE PAGE 18 FOR DRY WEATHER REQUIREMENTS FOR LIMITS WITH MONITORING LOCATION OF 'U'. IF NO DISCHARGE USE '9'.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME GENERAL ELECTRIC CORPORATION

ADDRESS ATTN: JEFFREY G. RUEBESAM

100 WOODLAWN AVENUE

PITTSFIELD MA 01201

FACILITY GENERAL ELECTRIC COMPANY

LOCATION PITTSFIELD MA 01201

ATTN: MICHAEL T. CARROLL, EHS&F

MA0003891
PERMIT NUMBER

006 A
DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
06	04	01		06	06	30

MAJOR (SUBR W)
F - FINAL
NON PROCESS/STORMWATER BYPASS

*** NO DISCHARGE 1 | 1 ***

NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****		7.3	*****	7.3	(12) SU	0	01/90	GR
00400 S O O SEE COMMENTS BELOW		*****	*****	****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		QTRLY	RANG--C
OIL & GREASE		*****	*****		*****	*****	0	(20) PPM	0	01/90	GR
00556 S O O SEE COMMENTS BELOW		*****	*****	****	*****	*****	15 DAILY MX	PPM		QTRLY	GRAB
POLYCHLORINATED BIPHENYLS (PCBS)		*****	*****		*****	*****	0.6	(21) PPB	0	01/90	GR
39516 S O O SEE COMMENTS BELOW		*****	*****	****	*****	*****	REPORT DAILY MX	PPB		QTRLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		*****	0.576	(03) MGD	*****	*****	*****		0	01/90	ES
50050 S O O SEE COMMENTS BELOW		*****	REPORT DAILY MX	MGD	*****	*****	*****	****		QTRLY	ESTIMA

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Michael T. Carroll
Mgr. Pittsfield Remediation Prog.
TYPED OR PRINTED

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M. T. Carroll
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 413 448-5902
DATE 2006 7 24
AREA CODE NUMBER YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
QUARTERLY. SAMPLE AT POINT OF DISCHARGE.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME GENERAL ELECTRIC CORPORATION
ADDRESS ATTN: JEFFREY G. RUEBESAM
 100 WOODLAWN AVENUE
 PITTSFIELD MA 01201
FACILITY GENERAL ELECTRIC COMPANY
LOCATION PITTSFIELD MA 01201
 ATTN: MICHAEL T. CARROLL, EHS&F

MA0003891		009 D				
PERMIT NUMBER		DISCHARGE NUMBER				
MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
06	04	01		06	08	30

MAJOR (SUBR W)
 F - FINAL
 NON PROCESS/STORMWATER BYPASS

*** NO DISCHARGE !!! ***
 NOTE: Read instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	*****	*****		NODI [E]	*****	NODI [E]	(12)			
00400 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	6.0 MINIMUM	*****	7.0 MAXIMUM	SU		QTRLY	RANG-C
OIL & GREASE	SAMPLE MEASUREMENT	*****	*****		*****	*****	NODI [E]	(20)			
00556 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	*****	*****	15 DAILY MX	PPM		QTRLY	GRAB
POLYCHLORINATED BIPHENYLS (PCBS)	SAMPLE MEASUREMENT	*****	*****		*****	*****	NODI [E]	(21)			
39516 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	PPB		QTRLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLAN	SAMPLE MEASUREMENT	*****	NODI [E]	(03)	*****	*****	*****				
50050 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	REPORT DAILY MX	MGD	*****	*****	*****	****		QTRLY	ESTIMA
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	PERMIT REQUIREMENT										
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	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Michael T. Carroll
 Mgr. Pittsfield Remediation Prog.
 TYPED OR PRINTED

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

M. T. Carroll
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
413 494-3500		2006	7	24
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 QUARTERLY. SAMPLE AT POINT OF DISCHARGE.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME GENERAL ELECTRIC CORPORATION
 ADDRESS ATTN: JEFFREY G. RUEBESAM
 100 WOODLAWN AVENUE
 PITTSFIELD MA 01201
 FACILITY GENERAL ELECTRIC COMPANY
 LOCATION PITTSFIELD MA 01201
 ATTN: MICHAEL T. CARROLL, EHS&F

MA0003891
 PERMIT NUMBER

SR0 1
 DISCHARGE NUMBER

MAJOR (SUBR W)
 F - FINAL
 NON PROCESS/STORMWATER BYPASS

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
 06 04 01 TO 06 06 30

*** NO DISCHARGE [] ***
 NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****		NODI [E]	*****	NODI [E]	(12)			
00400 S O O SEE COMMENTS BELOW		*****	*****	****	5.0 MINIMUM	*****	9.0 MAXIMUM	SU		QTRLY	RANG-C
OIL & GREASE		*****	*****		*****	*****	NODI [E]	(20)			
00556 S O O SEE COMMENTS BELOW		*****	*****	****	*****	*****	15 DAILY MX	PPM		QTRLY	GRAB
POLYCHLORINATED BIPHENYLS (PCBS)		*****	*****		*****	*****	NODI [E]	(21)			
39516 S O O SEE COMMENTS BELOW		*****	*****	****	*****	*****	REPORT DAILY MX	PPB		QTRLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLAN		*****	NODI [E]	(03)	*****	*****	*****				
50050 S O O SEE COMMENTS BELOW		*****	REPORT DAILY MX	MGD	*****	*****	*****	****		QTRLY	ESTIMA

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Michael T. Carroll
 Mgr. Pittsfield Remediation Prog.
 TYPED OR PRINTED

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M. T. Carroll
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 413 448-5902
 DATE 2006 7 24
 AREA CODE NUMBER YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 SAMPLE AT POINT OF DISCHARGE.

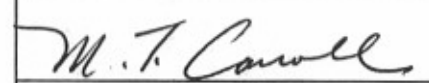
NAME GENERAL ELECTRIC CORPORATION
 ADDRESS ATTN: JEFFREY G. RUEBESAM
 100 WOODLAWN AVENUE
 PITTSFIELD MA 01201
 FACILITY GENERAL ELECTRIC COMPANY
 LOCATION PITTSFIELD MA 01201
 ATTN: MICHAEL T CARROLL, EHS&F

MA0003891	SRD 2					
PERMIT NUMBER	DISCHARGE NUMBER					
MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
06	04	01		06	06	30

MAJOR (SUBR W)
 F - FINAL
 NON PROCESS/STORMWATER BYPASS

*** NO DISCHARGE 1 1 ***
 NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	*****	*****		NODI [E]	*****	NODI [E]	(12)			
00400 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		QTRLY	RANG-C
OIL & GREASE	SAMPLE MEASUREMENT	*****	*****		*****	*****	NODI [E]	(20)			
00556 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	*****	*****	15 DAILY MX	PPM		QTRLY	GRAB
POLYCHLORINATED BIPHENYLS (PCBS)	SAMPLE MEASUREMENT	*****	*****		*****	*****	NODI [E]	(21)			
39516 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	PPB		QTRLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLAN	SAMPLE MEASUREMENT	*****	NODI [E]	(03)	*****	*****	*****				
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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael T. Carroll Mgr. Pittsfield Remediation Prog. TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			AREA CODE	NUMBER	YEAR	MO	DAY
			413	448-5902	2006	7	29

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SAMPLE AT POINT OF DISCHARGE.

NAME GENERAL ELECTRIC CORPORATION
 ADDRESS ATTN: JEFFREY G. RUEBESAM
 100 WOODLAWN AVENUE
 PITTSFIELD MA 01201
 FACILITY GENERAL ELECTRIC COMPANY
 LOCATION PITTSFIELD MA 01201
 ATTN: MICHAEL T CARROLL, EHS&F

MA0003871
 PERMIT NUMBER

SRO 3
 DISCHARGE NUMBER

MAJOR (SUBR W)
 F - FINAL
 NON PROCESS/STORMWATER BYPASS

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
06	04	01	06	06	30

FROM

TO

*** NO DISCHARGE 1-1 ***

NOTE: Read instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	*****	*****		NODI [E]	*****	NODI [E]	(12)			
00400 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		GTRLY	RANG-C
DIL & GREASE	SAMPLE MEASUREMENT	*****	*****		*****	*****	NODI [E]	(20)			
00556 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	*****	*****	15 DAILY MX	PPM		GTRLY	GRAB
POLYCHLORINATED BIPHENYLS (PCBS)	SAMPLE MEASUREMENT	*****	*****		*****	*****	NODI [E]	(21)			
39516 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	PPB		GTRLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLAN	SAMPLE MEASUREMENT	*****	NODI [E]	(03)	*****	*****	*****				
50050 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	REPORT DAILY MX	MGD	*****	*****	*****	****		GTRLY	ESTIMA
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	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Michael T. Carroll
 Mgr. Pittsfield Remediation Prog.
 TYPED OR PRINTED

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M. T. Carroll
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
413	448-5902	2006	7	24
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SAMPLE AT POINT OF DISCHARGE.

NAME GENERAL ELECTRIC CORPORATION
 ADDRESS ATTN: JEFFREY G. RUEBESAM
 100 WOODLAWN AVENUE
 PITTSFIELD MA 01201
 FACILITY GENERAL ELECTRIC COMPANY
 LOCATION PITTSFIELD MA 01201
 ATTN: MICHAEL T CARROLL, EHS&F

MA0003891
 PERMIT NUMBER

SRO 4
 DISCHARGE NUMBER

MAJOR (SUBR W)
 F - FINAL
 NON PROCESS/STORMWATER BYPASS

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
06	04	01		06	06	30

*** NO DISCHARGE 1-1 ***
 NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	*****	*****		NODI [E]	*****	NODI [E]	(12)			
00400 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		QTRLY	RANG-C
OIL & GREASE	SAMPLE MEASUREMENT	*****	*****		*****	*****	NODI [E]	(20)			
00556 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	*****	*****	15 DAILY MX	PPM		QTRLY	GRAB
POLYCHLORINATED BIPHENYLS (PCBS)	SAMPLE MEASUREMENT	*****	*****		*****	*****	NODI [E]	(21)			
52516 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	PPB		QTRLY	GRAB
FLOW, IN CONDUIT OR TREATMENT PLAN	SAMPLE MEASUREMENT	*****	NODI [E]	(03)	*****	*****	*****				
50050 S O O SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	REPORT DAILY MX	MGD	*****	*****	*****	****		QTRLY	ESTIMA
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	PERMIT REQUIREMENT										

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 Mgr. Pittsfield Remediation Prog.
 TYPED OR PRINTED

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M. T. Carroll
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
413	448-5902	2006	7	24
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 SAMPLE AT POINT OF DISCHARGE.


NAME GENERAL ELECTRIC CORPORATION
 ADDRESS ATTN: JEFFREY G. RUEBESAM
 100 WOODLAWN AVENUE
 PITTSFIELD MA 01201
 FACILITY GENERAL ELECTRIC COMPANY
 LOCATION PITTSFIELD MA 01201
 ATTN: MICHAEL T CARROLL, EHS&F

MA0003891			SR0 5		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
06	04	01	06	06	30

MAJOR (SUBR W)
 F - FINAL
 NON PROCESS/STORMWATER BYPASS

*** NO DISCHARGE 1-1 ***
 NOTE: Read Instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH 00400 S O O SEE COMMENTS BELOW	SAMPLE MEASUREMENT	*****	*****		NODI [E]	*****	NODI [E]	(12)			
	PERMIT REQUIREMENT	*****	*****	****	6.0 MINIMUM	*****	9.0 MAXIMUM	SU		QTRLY	RANG-C
OIL & GREASE 00556 S O O SEE COMMENTS BELOW	SAMPLE MEASUREMENT	*****	*****		*****	*****	NODI [E]	(20)			
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	15 DAILY MX	PPM		QTRLY	GRAB
POLYCHLORINATED BIPHENYLS (PCBS) 39516 S O O SEE COMMENTS BELOW	SAMPLE MEASUREMENT	*****	*****		*****	*****	NODI [E]	(21)			
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	REPORT DAILY MX	PPB		QTRLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 S O O SEE COMMENTS BELOW	SAMPLE MEASUREMENT	*****	NODI [E]	(03)	*****	*****	*****				
	PERMIT REQUIREMENT	*****	REPORT DAILY MX	MGD	*****	*****	*****	****		QTRLY	ESTIMA
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	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael T. Carroll Mgr. Pittsfield Remediation Prog. TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE			
			413 448-5902	2006	7	28	
			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 SAMPLE AT POINT OF DISCHARGE.

Attachment C

NPDES Biomonitoring Report July 2006

July 31, 2006

Mr. Jeffrey Nicholson
GE Corporate Environmental Programs
159 Plastics Avenue
Pittsfield, MA 01201

Re: NPDES Biomonitoring Report for July 2006
Submission #: R2632318

Dear Mr. Nicholson:

Enclosed is our report on the Whole Effluent Toxicity testing conducted in July 2006. The Outfall Composite samples were collected on 7/10/06 at 11:00 am. The Housatonic River samples were collected on 7/10/06 at 8:15 am. The Outfall Composite and Housatonic River samples were analyzed at Columbia Analytical Services for total cyanide, ammonia, total organic carbon, total phosphorus, chloride, total solids, total suspended solids, total residual chlorine, and total metals. Dissolved metals were analyzed for only on the Outfall Composite samples. Results are presented in Appendix 2. The Outfall Composite and Housatonic River samples were sent directly by General Electric to Aquatec Biological Services for the acute aquatic toxicity testing including the analysis of alkalinity, hardness, specific conductance, and pH. Results are presented in Appendix 1.

Should you have any questions please contact me at (585)288-5380 x130.

Thank you for allowing us to provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES



Carlton Beechler
Project Manager

enc.

CC: Jill Piskorz, Pat Fuse and Nicole Evans vial email.

NPDES BIOMONITORING REPORT

GENERAL ELECTRIC COMPANY

Pittsfield, MA

NPDES PERMIT MA 0003891

Monthly Acute Toxicity Monitoring

Dry Weather Conditions

July 2006

WHOLE EFFLUENT TOXICITY TEST REPORT CERTIFICATION

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

Executed on

_____ (Date)

_____ (Authorized Signature)

Michael T. Carroll

General Electric Co. – Pittsfield, MA
Permit MA0003891

Prepared by: Carlton R. Beechler

July 31, 2006

TABLE OF CONTENTS

	<u>PAGE</u>
I. Summary	1
II. Review of Toxicity Analytical Results	2
III. Review of Wastewater Sampling Procedures	3
IV. Review of Individual Discharges	5

Table I – Summary of Analytical Test Results

Appendices:

1. Chemical and Acute Toxicity Data from Aquatec Biological Sciences
2. Laboratory Reports from Columbia Analytical Services, Inc. and O'Brien & Gere, Inc.
3. Chain of Custody Forms

I. Summary

On July 9-10, 2006 sampling of wastewater discharges from the General Electric Company facility in Pittsfield MA was conducted in accordance with the dry weather toxicity testing requirement of the GE NPDES Permit MA0003891. Composite samples were collected from GE outfalls 001, 005-64T, 005-64G and 09B over a 24-hour period. These composite samples were combined in a flow-proportioned manner to generate a single wastewater sample that was shipped to Aquatec Biological Sciences in Williston, Vermont. A grab sample of Housatonic River water, to be used as dilution water in the toxicity test, was collected upstream of the GE discharges on July 10, 2006 and shipped to AquaTec along with the wastewater composite. AquaTec dechlorinated the composite sample prior to the acute toxicity test following the toxicity reduction procedures summarized in a letter dated November 11, 1993 to EPA Region I from JG Ruebesam of General Electric Company. The composite wastewater sample and the dilution water sample were tested for chemical constituents by Aquatec Biological Sciences and Columbia Analytical Services. The analytical results are summarized in Table I and the detailed laboratory test data are include as Appendices to this report. As a result of land transfer documents executed on April 27, 2005 and recorded in the Berkshire County Registry of Deeds on May 2, 2005, Outfalls 001 and 004 were transferred to the Pittsfield Economic Development Authority (PEDA). Outfalls 001 and 004 DMRs will no longer be submitted under the GE NPDES Permit No. MA0003891. However, GE's NPDES Permit requires that the metal and toxicity composites to be made by compositing samples from the following outfalls: 001, 004, 005, 007, and 009. These two composites will continue to include an aliquot of water from outfall 001 and outfall 004, and will be reported on GE's DMR until further actions by the Agencies.

The results from Aquatec Biological Sciences for the acute toxicity test on the wastewater discharge sample indicated a No Observed Acute Effect Level (NOAEL) of 100%.

II. Review of Toxicity Test Results

The wastewater discharge sample collected on July 9-10, 2006 was tested for 48-hour acute toxicity using *Daphnia pulex* organisms. The sample did not require dechlorination with sodium thiosulfate ($\text{Na}_2\text{S}_2\text{O}_3$) prior to toxicity testing. Aquatec Biological Sciences reported the results of this toxicity testing as follows:

Effluent toxicity as NOAEL =	100%
Effluent toxicity as LC_{50} =	>100%

No limit is established for wet weather NOAEL in the GE NPDES permit.

The following table summarizes the results of the control sample analyses performed by AquaTec during the acute toxicity bioassay:

<u>Control Analysis</u>	<u>Result</u>
Survival in 100% dilution water	96%
Survival in laboratory water	96%
Survival in laboratory water with 100 mg/L sodium thiosulfate	96%
LC_{50} for <i>Daphnia pulex</i> in sodium chloride reference toxicant solution	3.215g NaCl/L July 11, 2006

The *Daphnia* survival rates in control solutions of upstream dilution water, laboratory water and reference toxicant solution were within acceptable limits, indicating that the results of the toxicity test are valid.

III. Review of Wastewater Sampling Procedures

Composite samples of the individual NPDES wastewater discharges were collected over a 24-hour period. These samples were composited in a flow-weighted manner to generate a single combined discharge sample for toxicity testing and chemical analysis.

The 24-hour composite samples from the individual discharges were collected as follows:

Each automatic sampler (at outfall 001, 64T, 64G, and 09B) was programmed to collect approximately 7 liters of wastewater into a 10-liter glass container in a time-proportioned manner over a 24-hour period. Outfalls 004, 007, and 09A have been plugged and no longer flow.

All sample containers were packed in ice or refrigerated to keep the wastewater samples cold during the 24-hour collection period.

Flow meter readings were taken at the beginning and end of the 24-hour collection period to determine the total 24-hour flow for each wastewater discharge.

At the end of the 24-hour collection period, the discharge samples were taken to Building 64G where OB&G personnel composited these samples, in a flow weighted manner, to generate a single combined sample for the acute toxicity test and the chemical analyses, as follows:

The proportions of each individual discharge sample needed to produce a single combined sample were calculated from the flow measurements. The calculated sample volumes were then transferred from their original collection containers to a 2.5 or 5 gallon mixing container. The combined discharge sample was then split into various containers for toxicity testing and chemical analyses. These containers were shipped by vendor courier to AquaTec for toxicity testing and by FedEx (overnight) to Columbia Analytical Services for chemical analyses. All samples were chilled with ice packs during shipment.

A grab sample of Housatonic River water was collected on the second day of sampling at the Lyman Road Bridge in Hinsdale, MA, upstream of the GE site. This sample was split for chemical analysis and toxicity testing in a similar manner as the combined effluent sample (see above).

Details of the times and dates of sample collection as well as the names of the individuals collecting and transporting the samples are provided on the chain of custody forms in Appendix 3 of this report.


IV. Review of Individual NPDES Discharges

The following is a brief description of each of the seven outfalls that are monitored for acute and chronic toxicity in accordance with NPDES Permit MA0003891 issued to the General Electric Company, Pittsfield, MA.

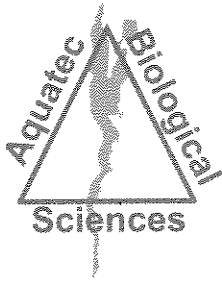
1. Outfall 001 is permitted to discharge storm water runoff from the oil/water separator in Building 31W to Silver Lake.
2. Outfall 004 is permitted to discharge storm water runoff to Silver Lake. (**Outfall plugged**)
3. Outfall 005 is permitted to discharge contact cooling water, non-contact cooling water, treated process water and storm water runoff from the Wastewater Treatment Plant in Building 64T, and treated groundwater from the Groundwater Treatment Plant in Building 64G to the Housatonic River. Monitoring samples are collected separately from the effluents of 64G and 64T. Both samples are included in the flow composite sample used for toxicity testing.
4. Outfall 007 is permitted to discharge stormwater runoff to the Housatonic River. (**Outfall plugged**)
5. Outfall 09A is permitted to discharge non-contact cooling water and stormwater runoff to Unkamet Brook. (**Outfall plugged**)
6. Outfall 09B is permitted to discharge non-contact cooling water, treated process water and stormwater runoff from the oil/water separator in Building 119W to Unkamet Brook.

APPENDIX 1

Chemical and Acute Toxicity Data

Aquatec Biological Sciences 





Aquatec Biological Sciences



Ecology



Environmental
Toxicology



Natural Resource
Assessments



Microbiology

July 17, 2006

Mr. Carl Beechler
Columbia Analytical Services,
1 Mustard Street – Suite 250
Rochester, NY 14609

Dear Mr. Beechler:

Enclosed please find one bound and one unbound copies of our report of the results for whole effluent toxicity testing of samples received from GE Pittsfield, Massachusetts on July 10, 2006.

According to the Chain-of-Custody documentation the samples for Whole Effluent Toxicity (WET) Testing were collected on July 10, 2006. The samples were transported to Aquatec Biological Sciences, Inc. by courier and delivered on the same day. The effluent sample (Sample 32272) was logged in for the acute 48-hour static toxicity test with *Daphnia pulex*. The receiving water sample (Sample 32273) was logged in for dilution water. A subsample of each sample was checked for residual chlorine (not detected) and for alkalinity and hardness measurements at Aquatec Biological Sciences, Inc. The toxicity test was started on July 11, 2006, within the specified holding time.

At the conclusion of the toxicity test on July 13, 2006, a final count of surviving organisms was completed. The average survival was 92 - 100 percent in all test concentrations. Acute toxicity to *Daphnia pulex* was not detected, and the 48-hour LC50 reported as >100% effluent (Section 4.1 of the report).

If you have any questions regarding the report, please call Dr. Philip C. Downey or me.

Sincerely,


John Williams
Manager, Environmental Toxicology

This report consists of the following numbered pages:

1 - 43

**Whole Effluent Toxicity Testing
Of Wastewaters Discharged from
The General Electric Plant
Pittsfield, Massachusetts**

Samples Collected in July 2006

Submitted to:
**General Electric
Area Environmental & Facility Programs
100 Woodlawn Avenue
Pittsfield, Massachusetts 01201**

SDG number: 9665

Effluent ID: Outfall Composite A7407C Aquatec sample number: 32272

Receiving water ID: Housatonic River A7406R Aquatec sample number: 32273

Study Director: John Williams

July 17, 2006

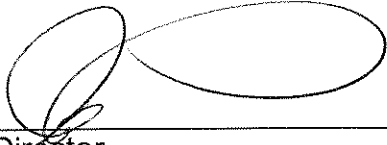
Submitted by:
**Aquatec Biological Sciences, Inc.
273 Commerce Street
Williston, Vermont 05454
Phone: (802) 860-1638 Fax: (802) 860-1638**

Accreditation: NH Environmental Laboratory Accreditation Program
NELAP / NELAC accredited for the requested analysis.

Signatures and Approval

Submitted by:

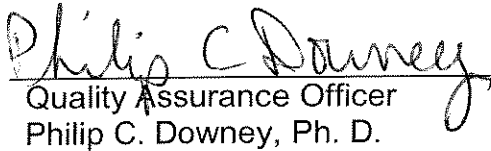
Aquatec Biological Sciences, Inc.
273 Commerce Street
Williston, Vermont 05454
Phone: (802) 860-1638
Fax: (802) 860-1638



Study Director
John Williams

7/18/06

Date



Quality Assurance Officer
Philip C. Downey, Ph. D.

7/18/06

Date

Whole Effluent Toxicity Test Report Certification

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

Executed on:

Date: 7/18/06



Authorized signature

John Williams

Name

Manager, Environmental Toxicology

Title

Aquatec Biological Sciences, Inc.

Laboratory

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Summary of Static Acute Toxicity Test with *Daphnia pulex*

Sponsor:	General Electric
Protocol title:	US EPA-821-R-02-012. <i>Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms</i> , 5 th Ed., October 2002. Method 2021.0
Aquatec SDG:	9665
Test material:	Composite effluent from the General Electric Company located in Pittsfield, Massachusetts
GE sample ID:	OUTFALL COMPOSITE A7407C
Dilution water:	Water from the Housatonic River (grab sample)
GE sample ID:	HOUSATONIC RIVER A7406R
Dates collected:	July 10, 2006
Date received:	July 10, 2006
Test dates:	July 11-13, 2006
Test concentrations:	100%, 75%, 50%, 35%, 15%, 5% effluent. Dilution water control (Housatonic River) Laboratory control 1 (culture water) Laboratory control 2 (culture water with sodium thiosulfate)
Results:	The 48-hour LC50 value was determined to be >100% effluent. The Acute No-Observed-Effect-Concentration (A-NOEC) was 100% effluent.

1.0 Introduction

1.1 Background

In 1972, amendments were made to the Clean Water Act (CWA) prohibiting the discharge of any pollutant from a point source to waters of the United States, unless the discharge is authorized by a National Pollutant Discharge Elimination System (NPDES) permit. Since the passing of the 1972 amendments to the CWA, significant progress has been made in cleaning up industrial wastewater and municipal sewage point source discharges. EPA defines point sources as discrete discharges via pipes or man-made ditches.

In 1984, the U.S. Environmental Protection Agency (EPA) released a national policy statement and a supporting document that recommended, where appropriate, effluent permit limits should be based on effluent toxicity as measured in aquatic toxicity tests. Generally, permits require that no toxic discharge occur in toxic amounts. The routine use of dilution-series toxicity tests and/or biologically-based criteria (i.e., invertebrate and vertebrate community studies) have become increasingly utilized to calculate or estimate the potential toxicity of a discharge.

EPA has the authority to delegate primary responsibility for the implementation, permitting, and enforcement of NPDES regulations to appropriate State regulatory agencies. Even when EPA delegates this authority to the states, EPA still maintains oversight responsibility.

1.2 Objective of the General Electric Study

The objective of this study was to measure the acute toxicity of the composite wastewater discharged by the General Electric facility located in Pittsfield, Massachusetts to the Housatonic River. The water flea, *Daphnia pulex*, is exposed to effluent and dilutions of effluent under static conditions. *Daphnia pulex* is routinely used by regulatory agencies and by contract laboratories for toxicity testing and EPA has published guidance documents for the performance of this test (U.S. EPA, 2002).

A toxicity test was conducted from July 11-13, 2006 at Aquatec Biological Sciences, Inc. (Aquatec) located in Williston Vermont. Aquatec Biological Sciences, Inc. holds NELAC accreditation for the requested whole effluent toxicity test. All original raw data and the final report produced for this study are stored in Aquatec's archives in Williston, Vermont.

2.0 Materials and Methods

2.1 Protocol

Procedures used in this acute toxicity test followed those described in the Aquatec Standard Operating Procedure (SOP) TOX2-001, Daphnid Acute R5, May 4, 2006. This SOP generally follows the standard methodology presented in U.S. EPA. 2002 (EPA-821-R-02-012). *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, 5th Ed.,

October 2002, Method 2021.0 (as summarized in Appendix 2 of this report). A copy of the SOP is located in Appendix 6 (Controlled document, please do not copy or distribute.)

Additional SOPs used in this study are outlined below:

Title	SOP Number	Revision Date
Sample Acceptance	TOX1-017	Rev. 4, February, 2004
Hardness – total titrimetric method	TOX1-011	Rev. 3, May 2003
Alkalinity – total titrimetric method	TOX1-010	Rev. 6, April 2004
Thermo-Orion 145 A+ Conductivity Meter	TOX1-016	Rev. 1, April 2004
Dissolved oxygen	TOX1-006	Rev. 7, April 2004
pH measurement	TOX1-007	Rev. 2, April 2004
Salinity: refraction method	TOX1-008	Rev. 3, January, 2003

2.2 Effluent and Receiving Water Samples

The effluent sample (Outfall Composite A7407C) was collected by GE personnel from July 9 - 10, 2006. The receiving water sample (Housatonic River A7406R) was a grab collected from the Housatonic River on July 10, 2006. Samples were delivered to Aquatec on the same day. Upon receipt at Aquatec on July 10, 2006, the temperature of the temperature blank contained within the cooler was 0.6°C. The effluent and receiving water were prepared for testing and characterized (Table 1). The receiving water was the dilution water for preparing effluent concentrations and was also the reference control for statistical comparisons.

2.3 Control water

Laboratory control water for the toxicity test was a 1:1 mixture of laboratory reconstituted moderately hard water and 60-micron filtered river water collected from the Lamoille River, Vermont. This water was characterized for the following parameters: pH (7.2); dissolved oxygen (8.0 mg/L); conductivity (199 uS/cm). An additional dechlorination control (laboratory water with 0.2 N sodium thiosulfate added) was included in the test array, even though chlorine was not detected in the effluent sample.

2.4 Test Organism

Daphnids (*Daphnia pulex*), less than 24-hours old were obtained from Aquatec laboratory cultures. The culture system consisted of several 1-liter glass beakers containing approximately 1-liter of culture medium and up to approximately 100 daphnids. The culture water was laboratory reconstituted moderately hard water. Prior to use, the culture water was characterized:

Parameter	Result
Total hardness (mg/L)	Within range of 80-110 mg/L
Alkalinity (mg/L as CaCO ₃)	Within range of 60-70 mg/L
pH	Nominal 7.7 – 8.0

The culture area was maintained at a nominal temperature of 20°C (range 19 – 21 °C) with a regulated photoperiod of 16 hours light and 8 hours of darkness.

Daphnid cultures were fed a combination of green algae (*Selenastrum capricornutum*) and YCT obtained from Aquatic BioSystems of Fort Collins, Colorado. The cultures were fed a ration of *Selenastrum* and YCT daily Monday through Friday. Daphnids were transferred to new culture medium weekly.

Approximately 24 hours before toxicity test initiation, all daphnid neonates were removed from the culture beakers. Offspring produced within 24 hours were used for toxicity testing.

2.5 Test Procedures

Prior to initiating the toxicity test, a sub-sample of effluent and receiving water was decanted for subsequent alkalinity and hardness determination. A sub-sample was also checked for presence of chlorine to determine whether dechlorination of effluent is required. Chlorine was not detected, therefore dechlorination of the effluent was not required. The sample was then aerated and warmed to test temperature.

The toxicity test was conducted at effluent concentrations of 100%, 75%, 50%, 35%, 15%, and 5% effluent. Test concentrations were prepared by diluting the appropriate volume of effluent with dilution water to a total volume of 400 mL. Test solutions were then decanted to five replicate 30-mL cups per concentration, each containing approximately 20 mL of test solution. Three sets of control replicates were also included in the test array, set up as the effluent replicates. The controls included: Housatonic River water (dilution control), a laboratory control (a mix of moderately hard water and Lamoille River, VT water), and a laboratory control with sodium thiosulfate added (dechlorination control). The dechlorination control was included in the test array even though residual chlorine was not detected in the effluent.

Prior to testing, daphnids less than 24-hours old were collected from the cultures, pooled in Carolina bowl, and fed. The test was initiated when the daphnid neonates were transferred to the replicate test cups, five daphnids per cup. The toxicity test cups were incubated to maintain temperature in the range of 19°C to 21 °C. The lighting cycle was 16 hours light and eight hours dark and a luminance of approximately 80 ft-c.

2.6 Test Monitoring

The number of surviving daphnids was observed at approximately 24-hour intervals during the test, with the final count of surviving daphnids at approximately 48 hours. Temperature was measured daily in one replicate of each test treatment. The parameters of pH, dissolved oxygen, and conductivity were measured at the beginning and the end of the test.

Total hardness was measured by the EDTA titrimetric method and total alkalinity was measured by potentiometric titration to an endpoint of 4.5. The check for residual chlorine was performed with an acidified sample to which potassium iodide and starch indicator added. If chlorine was detected, the color was titrated away with 0.02 N sodium thiosulfate to determine the equivalent volume of 0.2 N sodium thiosulfate to add to effluent (if needed).

Dissolved oxygen was measured with a YSI Model 58 dissolved oxygen meter. A Beckman Phi 40 was used to measure pH. A Thermo-Orion Model 145 conductivity meter was used to measure conductivity. Salinity was measured with an Atago salinity refractometer.

2.7 Reference Toxicant Test

A 48-hour standard reference toxicant (SRT) test was conducted concurrently with the effluent toxicity test. The SRT test was conducted as a quality control procedure to establish the health and sensitivity of the test organisms. The SRT included four concentrations of reagent grade sodium chloride (NaCl) with nominal concentrations of 0.75, 1.5, 3.0, 6.0, and 12 g NaCl/L. Four test replicates, each containing five daphnid neonates were tested at each concentration and the laboratory control.

3.0 Statistics

3.1 Statistical protocol

The concentration-response relationships observed were characterized by the median lethal concentration (LC50), which was the calculated concentration lethal to 50 percent of the test organisms. If no concentrations resulted in 50% mortality, the LC50 was reported as greater than the highest concentration effluent (in this case >100% effluent), by direct observation. If greater than 50 percent mortality was observed in any effluent treatment, then a computer program (TOXIS2) was used to calculate the LC50 value, following the U.S. EPA statistical flowchart (Appendix 3).

The Acute-No-Observable-Effect Concentration (A-NOEC) was determined statistically using multiple comparison tests (TOXIS2), with the receiving water control as the reference.

4.0 Results

4.1 Effluent Toxicity Test

Results of effluent and receiving water characterizations performed at Aquatec as part of the toxicity test are presented in Table 1. Water quality parameters measured during the toxicity test are presented in Table 2. Measured temperatures during the test were within the range of 19°C to 21°C. The percent mortality data for the toxicity test are presented in Table 3. Acute toxicity was not

demonstrated during this evaluation. The 48-hour LC50 value was >100% effluent. The A-NOEC was 100% effluent.

4.2 Reference Toxicant Test

A standard reference toxicant (SRT) test was performed concurrently with the effluent toxicity test, using the same batch of daphnid neonates. The resulting 48-hour LC50, calculated by the Spearman-Kärber method, was 3.215 g NaCl/L with 95% confidence intervals of 2.76 – 3.74 g/L. This LC50 value was within the Control Chart limits generated for tests in our laboratory.

5.0 Qualifiers

5.1 Qualifiers and Special Conditions

Qualifiers or special conditions were not applicable to the reported toxicity test.

References

American Public Health Association, American Water Works Association, and Water Pollution Control Federation (APHA). 1989. Standard Methods for the Examination of Water and Wastewater. 17th Edition

U.S. Environmental Protection Agency, 2002. 5th Edition. *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*. EPA-821-R-02-012.

Table 1. Results of the characterization of the General Electric Pittsfield Plant effluent and receiving water (Housatonic River).

Parameter	Effluent OUTFALL COMPOSITE A7407C	Receiving Water HOUSATONIC RIVER A7406R
Temperature	21.0	21.0
pH	7.9	7.6
Alkalinity (as CaCO ₃), mg/L	340	88
Hardness (as CaCO ₃), mg/L	374	102
Dissolved oxygen, mg/L	8.4	8.2
Specific conductivity, uS/cm	1360	257
Salinity (‰)	0	0
Total residual chlorine (mg/L)	ND	ND

Note: Characterizations reflect conditions of sample after preparation for the toxicity test. ND = not detected

Table 2. Water quality measurements recorded during the 48-hour static toxicity test with *Daphnia pulex* exposed to General Electric Pittsfield Plant effluent, July 11-13, 2006.

Test Concentration (% effluent)	pH			Dissolved Oxygen (mg/L)			Temperature (°C)		
	0	24	48	0	24	48	0	24	48
Dechl. Control	7.3	-	7.3	7.9	-	8.2	21.0	20.7	21.0
Lab Control	7.2	-	7.2	8.0	-	8.2	21.0	20.9	21.0
Dilution Control	7.6	-	7.7	8.2	-	8.2	21.0	20.6	20.8
5%	7.7	-	7.8	8.4	-	8.3	21.0	20.6	20.7
15%	7.8	-	7.9	8.4	-	8.3	21.0	20.6	20.7
35%	7.9	-	8.1	8.4	-	8.3	21.0	20.6	20.7
50%	7.9	-	8.2	8.4	-	8.3	21.0	20.7	20.7
75%	7.9	-	8.3	8.4	-	8.3	21.0	20.6	20.6
100%	7.9	-	8.2	8.4	-	8.3	21.0	20.5	20.6

Measurements at time 0 were from a sub-sample of the prepared treatment. Measurements at time 48 were from the combined water from all replicates for each treatment.

Dechl. Control = laboratory water with sodium thiosulfate added (dechlorination control).

Lab Control = a mix of natural river water and moderately hard water.

Dilution Control = receiving water (Housatonic River).

Table 3. Cumulative percent mortalities recorded during the 48-hour static acute toxicity test with *Daphnia pulex* exposed to General Electric Pittsfield Plant effluent, July 11-13, 2006.

Effluent Conc. (%)	24-hour						48-hour					
	A	B	C	D	E	Avg	A	B	C	D	E	Avg
Dechl. Control	0	0	0	0	0	0	0	0	0	20	0	4
Lab Control	0	0	0	0	0	0	0	0	20	0	0	4
Rec. Control	0	0	0	0	0	0	0	0	0	0	0	0
5%	0	0	0	0	0	0	0	0	0	0	0	0
15%	0	0	0	0	0	0	0	0	0	0	0	0
35%	0	0	0	0	0	0	20	0	0	0	20	8
50%	0	0	0	0	0	0	0	0	0	20	0	4
75%	20	0	0	0	0	0	20	0	0	0	0	4
100%	0	0	0	0	0	0	0	0	0	20	0	4

Dechl. Control = laboratory water with sodium thiosulfate added (dechlorination control).

Lab Control = a mix of natural river water and moderately hard water.

Dilution Control = receiving water (Housatonic River).

Percent mortality = (# dead/5) X 100

Appendix 1

Chain-of-Custody Documentation

A. 70X

Aquatec Biological Sciences

Chain-of-Custody Record

273 Commerce Street
Williston, VT 05495
TEL: (802) 860-1638
FAX: (802) 658-3189

COMPANY INFORMATION		COMPANY'S PROJECT INFORMATION		SHIPPING INFORMATION		VOLUME/CONTAINER TYPE/ PRESERVATIVE					
Name: General Electric Company Address: O'Brien & Gere 1000 East Street, Gate 64 City/State/Zip: Pittsfield, MA 01201 Telephone: (413) 494-6709 Facsimile: _____ Contact Name: Mark Wasniewsky		Project Name: GE PITTSFIELD Outfall Composite Project Number: 06004 Sampler Name(s): <i>Mark Wasniewsky</i> NPDES Permit #: MA0003891		Quote #: 10/05 Client Code: GEPITTS Carrier: _____ Airbill Number: _____ Date Shipped: <u>7-10-06</u> Hand Delivered: <input type="checkbox"/> Yes <input type="checkbox"/> No		4°C	4°C	4°C H ₂ SO ₄	4°C H ₂ SO ₄	4°C	4°C HNO ₃

SAMPLE IDENTIFICATION	COLLECTION		GRAB	COMPOSITE	MATRIX	ANALYSIS (detection limits, mg/L)	NUMBER OF CONTAINERS							
	DATE	TIME					1 gal	1/2 gal	1 L	40 ml	250 ml	0.5 L		
Outfall Composite <i>A7407C</i>	7-10-06	11:00 AM		✓	Effluent	<i>Daphnia pulex</i> 48-h Static Acute Toxicity (EPA Method 2021.0). Log in for A48DPS	1							
Outfall Composite <i>A7407C</i>		11:00 AM		✓	Effluent	Total Residual Chlorine						1		
Housatonic River <i>A7406R</i>		8:15 AM		✓	Receiving	Dilution Water		1						
Housatonic River <i>A7406R</i>		8:15 AM		✓	Receiving	Total Residual Chlorine								1

Relinquished by: (signature) <i>Mark Wasniewsky</i>	DATE 7-10-06	TIME 1135	Received by: (signature) <i>Stewart Tucker</i>	NOTES TO SAMPLER(S): (1): Complete the labels (Date, time, initials) and cover the labels with clear tape. Tape the caps of the sample bottles to ensure that they do not become dislodged during shipment. Nest the samples in sufficient ice to maintain 0°C - 6°C. Results for samples received at temperatures exceeding 6°C will be qualified in the report. Notes to Lab: Ambient cooler temperature: <u>0.6</u> °C. Dechlorinate the effluent sample if chlorine is detected.
Relinquished by: (signature)	DATE	TIME	Received by: (signature)	
Relinquished by: (signature)	DATE	TIME	Received by: (signature)	

Appendix 2

Summary of Test Conditions

Appendix 3
U.S. EPA Region 1 Toxicity Test Summary and
Statistical Flow Chart

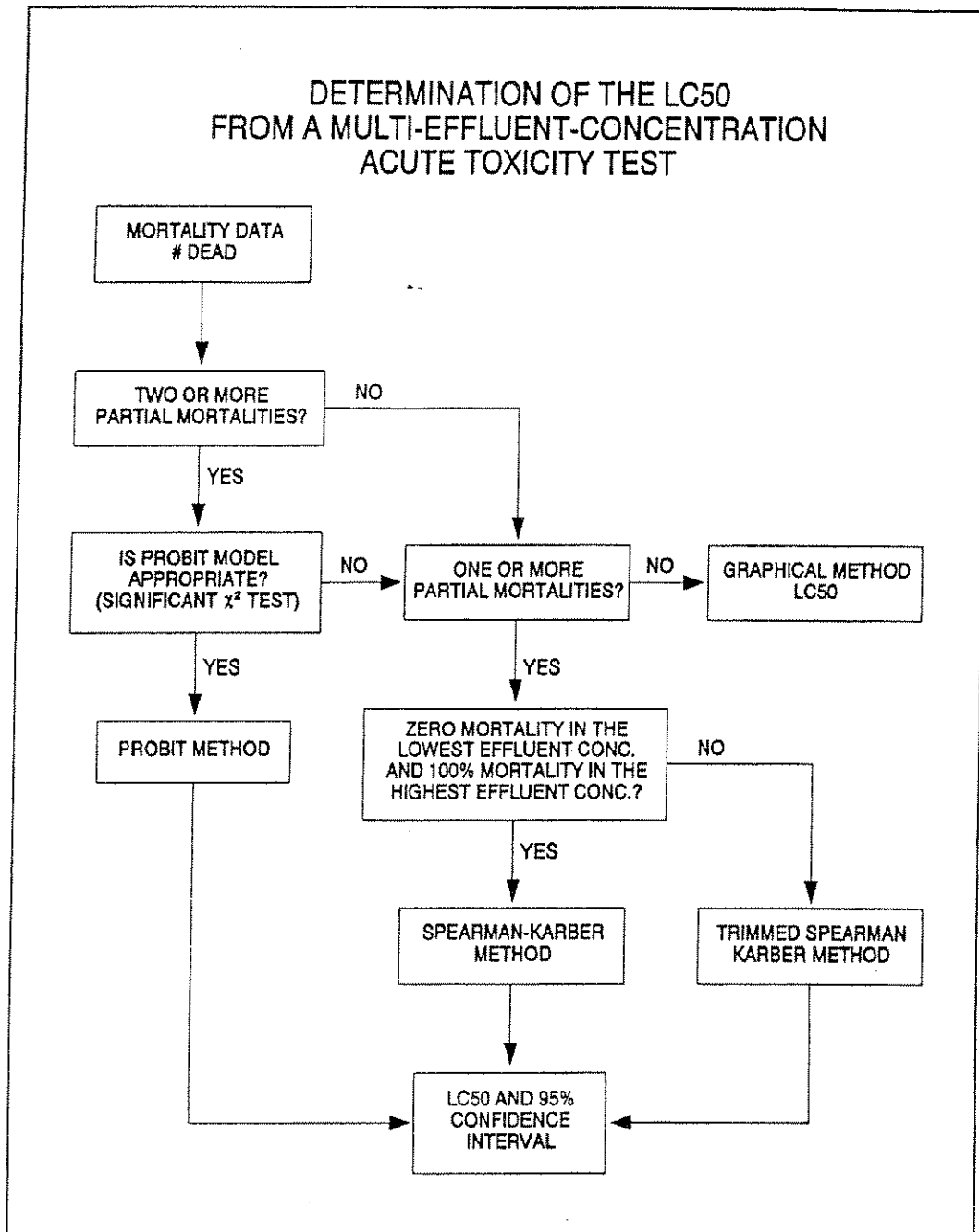


Figure 6. Flowchart for determination of the LC50 for multi-effluent-concentration acute toxicity tests.

DETERMINATION OF THE NOAEC FROM A MULTI-EFFLUENT-CONCENTRATION ACUTE TOXICITY TEST

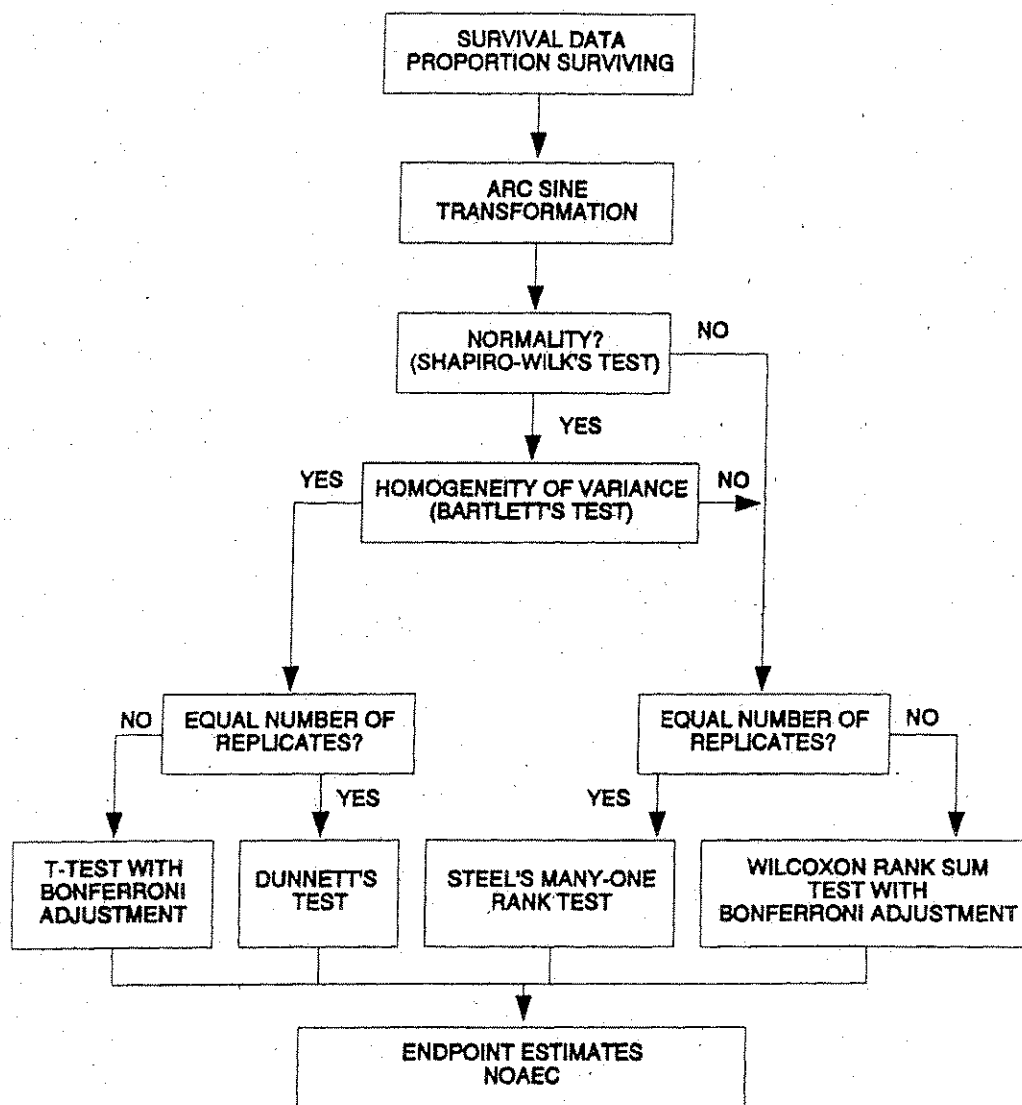


Figure 13. Flowchart for analysis of multi-effluent-concentration test data.

Appendix 4
Bench Data, *Daphnia pulex* Acute Toxicity Test

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Aquatec Biological Sciences, Inc.

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Test Date: 7/11/06
 Sample Date: 7/10/06
 Species: Daphnia pulex
 Test Type: Acute - 48 hours

Test Number: 48295
 Test Material: Effluent - Industrial %
 Source: MA0003891
 General Electric Company
 Pittsfield, MA

=====

SUMMARY

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End Point	Day	Transformation	Conc	#Reps	Mean	StDev	% Surv
Proportion Alive	2	Arc sine sqrt w/ adj.	0.000 B	5	1.30	.106	
			X 0.000 D	5	1.35	0.000	
			X 5.000 D	5	1.35	0.000	
			X 15.000 D	5	1.35	0.000	
			X 35.000 D	5	1.25	.130	
			X 50.000 D	5	1.30	.106	
			X 75.000 D	5	1.30	.106	
			X 100.000 D	5	1.30	.106	
Proportion Alive	2	No transformation	0.000 B	5	.96	.089	
			0.000 D	5	1.00	0.000	
			5.000 D	5	1.00	0.000	
			15.000 D	5	1.00	0.000	
			35.000 D	5	.92	.110	
			50.000 D	5	.96	.089	
			75.000 D	5	.96	.089	
			100.000 D	5	.96	.089	

X = indicates concentrations used in calculations

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- HYPOTHESIS TEST -

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End Point	Day	Transformation/Analysis	NOEC	LOEC	TU	MSE	MSD
Proportion Alive	2	Arc sine sqrt w/ adj.					
		Steel many-one rank test	>100.000	>100.000	< 1.00	.007	.121

=====

- PROPORTION POINT ESTIMATE -

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End Point	Day	Method	P	Conc	95% CI	TU
Proportion Alive	2	Probit	LC 50	> 100.000	-	< 1.00

Aquatec Biological Sciences, Inc.

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WATER FLEA TEST DATA

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Test Number: 48295 () Chronic (x) Acute 48 hours
 Test Date: 11-Jul-06
 Source: MA0003891 Test Material: EFF2 (%)

Conc	Rep	Cont. No. Sex	Start	Daily Survival						Prop Alive	Total Young	Max Young
				1	2	3	4	5	6 End			
0.00 B	1	F	5	5						1.00		
0.00 B	2	F	5	5						1.00		
0.00 B	3	F	5	4						.80		
0.00 B	4	F	5	5						1.00		
0.00 B	5	F	5	5						1.00		
0.00 D	1	F	5	5						1.00		
0.00 D	2	F	5	5						1.00		
0.00 D	3	F	5	5						1.00		
0.00 D	4	F	5	5						1.00		
0.00 D	5	F	5	5						1.00		
5.00 D	1	F	5	5						1.00		
5.00 D	2	F	5	5						1.00		
5.00 D	3	F	5	5						1.00		
5.00 D	4	F	5	5						1.00		
5.00 D	5	F	5	5						1.00		
15.00 D	1	F	5	5						1.00		
15.00 D	2	F	5	5						1.00		
15.00 D	3	F	5	5						1.00		
15.00 D	4	F	5	5						1.00		
15.00 D	5	F	5	5						1.00		
35.00 D	1	F	5	4						.80		
35.00 D	2	F	5	5						1.00		
35.00 D	3	F	5	5						1.00		
35.00 D	4	F	5	5						1.00		
35.00 D	5	F	5	4						.80		
50.00 D	1	F	5	5						1.00		
50.00 D	2	F	5	5						1.00		
50.00 D	3	F	5	5						1.00		
50.00 D	4	F	5	4						.80		
50.00 D	5	F	5	5						1.00		
75.00 D	1	F	5	4						.80		
75.00 D	2	F	5	5						1.00		
75.00 D	3	F	5	5						1.00		
75.00 D	4	F	5	5						1.00		
75.00 D	5	F	5	5						1.00		
100.00 D	1	F	5	5						1.00		
100.00 D	2	F	5	5						1.00		
100.00 D	3	F	5	5						1.00		
100.00 D	4	F	5	4						.80		
100.00 D	5	F	5	5						1.00		

5/7/18/06

Client: GENERAL ELECTRIC, PITTSFIELD, MA
 MA0003891

Test #: 48295

SDG: 9665

Test Description: *Daphnia pulex* 48-h daily renewal acute toxicity test

SURVIVAL DATA, LAB CONTROL AND DECHLORINATION CONTROL

Treatment (%)	Day 0	Day 1 # Surviving	Day 2 # Surviving
Lab A	5	5	5
Contr B	5	5	5
C	5	5	4
D	5	5	5
E	5	5	5
Dechlor. A	5	5	5
Control B	5	5	5
C	5	5	5
D	5	5	4
E	5	5	5
I/D/T	KS 7/11 11:40	KS 7/12 11:45	KS 7/13 11:30

Note: Residual chlorine was not detected in the effluent sample, therefore sodium thiosulfate was not added to the effluent before toxicity testing. Although chlorine was not detected, an additional dechlorination control (0.1 mL of 0.25 N sodium thiosulfate per liter of moderately hard / Lamoille River water) was included in the test array.

Treatment (%)	Parameter	Day 0	Day 1	Day 2
Lab Contr 1:1	pH	7.2		7.2
	DO	8.0		8.2
	Temp	21.0	20.9	21.0
	Cond.	199	--	212
Dechlorination Control	pH	7.3		7.3
	DO	7.9		8.2
	Temp	21.0	20.7	21.0
	Cond.	206	--	220
Rec. Water Contr	pH	7.6		7.7
	DO	8.2		8.2
	Temp	21.0	20.6	20.8
	Cond.	257	--	269
5.0	pH	7.7		7.8
	DO	8.4		8.3
	Temp	21.0	20.6	20.7
	Cond.	317	--	329
15	pH	7.8		7.9
	DO	8.4		8.3
	Temp	21.0	20.6	20.7
	Cond.	433	--	433
35	pH	7.9		8.1
	DO	8.4		8.3
	Temp	21.0	20.6	20.7
	Cond.	660	--	646
50	pH	7.9		8.2
	DO	8.4		8.3
	Temp	21.0	20.7	20.7
	Cond.	828	--	793
75	pH	7.9		8.3
	DO	8.4		8.3
	Temp	21.0	20.6	20.6
	Cond.	1098	--	1025
100	pH	7.9		8.2
	DO	8.4		8.3
	Temp	21.0	20.5	20.6
	Cond.	1360	--	1202
Sample #		32272	32272	32272
I/D (2005)		KS 7/11	KS 7/12	KS 7/12

Alkalinity and Hardness Worksheet

Sample Identifier	LIMS Identifier	Sub ID Code	Sampling Date	Sample Volume	Alkalinity			Hardness							
					Initial Titrant (ml)	Final Titrant (ml)	Analysis Date	Analyst	Alkalinity	Initial Titrant (ml)	Final Titrant (ml)	Analysis Date	Analyst	Hardness	
32272	Outfall composite -		7/11/06	25	0.9	9.4	KK	7/12/06	340.0	50	4.3	23	KK	7/11/06	374.0
32273	Housatonic River -		7/11/06	25	9.4	11.6	KK	7/12/06	88.0	50	23	28.1	KK	7/11/06	102.0

5/17/06

Total Residual Chlorine Analysis

Client
GE Pittsfield, MA**SDG**
9665

Sample #	Sample ID	Collection Date / Time	Analysis Date / Time / Analyst	Result (TRC mg/L)	Method
32272	Outfall Composite A7407C	7/10/06, 11:00	7/11/06, 12:40 JWW	<0.1	DPD Colorimetric
32273	Housatonic River A7406R	7/10/06, 08:15	7/11/06, 12:40 JWW	<0.1	DPD Colorimetric

Sample Preparation

Client: GENERAL ELECTRIC, PITTSFIELD, MA MA0003891	SDG: 9665
Test Description: <i>Daphnia pulex</i> acute toxicity test.	Test #: 48295

Sample Identification:

Sample Description	Rec. Water (Housatonic River)	Effluent		
Sample #	32273	32272		

Sample Preparation:

Filtration	60 micron ✓	60 micron ✓	60 micron	60 micron
Chlorine ¹	ND	ND		
Dechlorine ²	-	-		
Salinity ^(‰)	0 ‰	0 ‰		
Prepared by (Init./date)	KS 7-11-06			

¹ Record vol. 0.025 N sodium thiosulfate to dechlorinate 100 mL sample or record "ND" (not detected).
² Dechlorination required if detected. Record vol. 0.25 N sodium thiosulfate added per gallon effluent.

Dilution Plan for: *Daphnia pulex* static acute toxicity test

Receiving water is the dilution water

Lab Control = moderately hard water / Lamolille River 1:1 mix

Dechlorination Control = moderately hard water / Lamolille River 1:1 mix + sodium thiosulfate

Concentration (%)	Volume Effluent (mL)	Volume Diluent (mL)	Total Volume (mL)
Laboratory Control	0	400	400
Thiosulfate Control	0	400	400
Rec. Water Control	0	400	400
5.0	20	380	400
15	60	340	400
35	140	260	400
50	200	200	400
75	300	100	400
100	400	0	400
Total Volume	1120	1680	

Comments:

Collect alkalinity and hardness samples on each new effluent and receiving water sample.

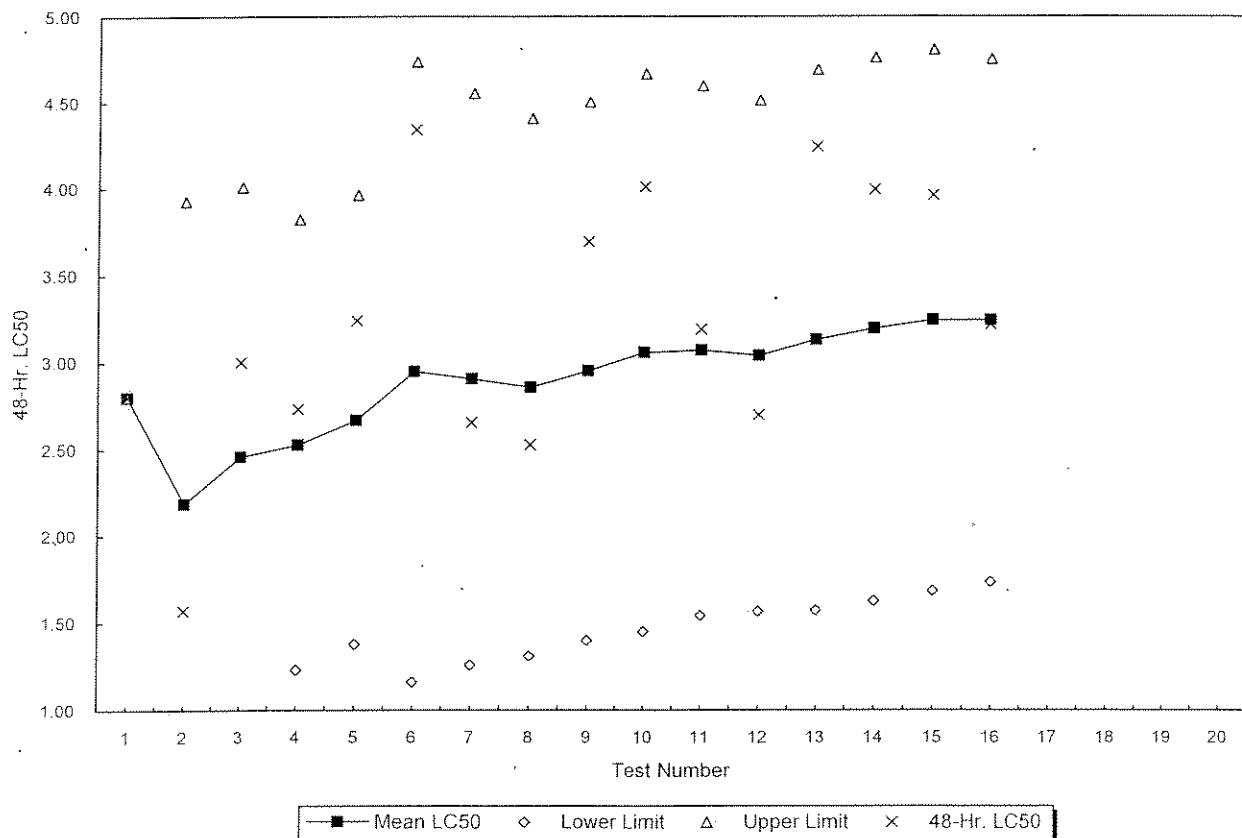
Appendix 5
Standard Reference Toxicant test Control Chart

Reference Toxicant Control Chart

Daphnia pulex

in Sodium chloride (g/L)

Test Number	Test Date	Organism		48-Hr. LC50	Mean LC50	Lower Limit	Upper Limit	Organism Source
		Age (Days)						
1	06/10/98	1		2.801	2.80	2.80	2.80	Aquatec Biological Sciences
2	09/17/98	1		1.57	2.19	0.44	3.93	Aquatec Biological Sciences
3	12/15/98	1		3.002	2.46	0.91	4.01	Aquatec Biological Sciences
4	10/08/05	1		2.733	2.53	1.23	3.82	Aquatic BioSystems
5	10/11/05	1		3.241	2.67	1.38	3.96	Aquatic BioSystems
6	10/19/05	1		4.342	2.95	1.16	4.74	Aquatic BioSystems
7	11/02/05	1		2.655	2.91	1.26	4.55	Aquatec Biological Sciences
8	11/08/05	1		2.527	2.86	1.31	4.41	Aquatec Biological Sciences
9	12/07/05	1		3.693	2.95	1.40	4.50	Aquatec Biological Sciences
10	01/05/06	1		4.009	3.06	1.45	4.67	Aquatec Biological Sciences
11	02/08/06	1		3.189	3.07	1.54	4.60	Aquatec Biological Sciences
12	03/11/06	1		2.698	3.04	1.57	4.51	Aquatec Biological Sciences
13	04/06/06	1		4.243	3.13	1.57	4.69	Aquatec Biological Sciences
14	05/10/06	1		3.992	3.19	1.62	4.76	Aquatec Biological Sciences
15	06/07/06	1		3.959	3.24	1.68	4.81	Aquatec Biological Sciences
16	07/11/06	1		3.215	3.24	1.73	4.75	Aquatec Biological Sciences
17								
18								
19								
20								



qaqc\srts\Dp acute nacl recent

Appendix 6
SOP TOX2-001, Standard Operating Procedure for
Daphnid (*Ceriodaphnia dubia*, *Daphnia magna*, and
***Daphnia pulex*) Acute Toxicity Test**

**Standard Operating Procedure for
Daphnid (*Ceriodaphnia dubia*, *Daphnia magna* and *Daphnia pulex*) Acute Toxicity Test
NELAC METHODS / U.S. EPA METHODS 2002.0 AND 2021.0**

1.0 IDENTIFICATION OF TEST METHOD

This SOP describes procedures for conducting an acute toxicity test with daphnids. This test is used to estimate the acute toxicity of whole effluents or other aqueous samples to the cladocerans, *Ceriodaphnia dubia*, *Daphnia magna* and *Daphnia pulex*. Aquatec Biological Sciences, Inc. holds NELAC accreditation for this method.

2.0 APPLICABLE MATRIX OR MATRICES

The described test is used to assess toxicity of wastewaters (effluents, influents), receiving waters, and other prepared aqueous solutions.

3.0 DETECTION LIMIT

Not applicable.

4.0 SCOPE AND APPLICATION

This SOP describes procedures for performing a static or static-renewal acute toxicity test with cladocerans, *Ceriodaphnia dubia*, *Daphnia magna* and *Daphnia pulex*.

5.0 SUMMARY OF TEST METHOD

A summary of the test method is attached (Table 1 of this SOP). This test is used to estimate the acute toxicity of whole effluents or other aqueous samples to the freshwater cladocerans. Organisms are exposed, for 24, 48 or 96 hours, typically to five concentrations of effluent (or aqueous sample) and the controls. Acute toxicity is estimated by calculating the lethal concentration 50 value (LC50) and/or the acute no-observed-effect-concentration (A-NOEC). This procedure is based on the guidelines of EPA-821-R-02-012 (Methods 2002.0 and 2021.0).

6.0 DEFINITIONS

LC50: The computed concentration that results in 50 percent mortality of the test organisms (may be computed from 48-h or 96-h data).

A-NOEC: The acute no-observed-effect-concentration; The highest concentration resulting in no statistically significant reduction in survival relative to the control (requires four test replicates for statistical analysis).

7.0 INTERFERENCES

Not applicable.

8.0 SAFETY

Samples acquired for toxicity testing may contain unknown toxicants or health hazards. Protective equipment (e.g., lab coats, disposable gloves) should be worn when handling samples.

9.0 EQUIPMENT AND SUPPLIES

Calibrated Instrumentation and Water Quality Apparatus:

- pH meter
- Dissolved Oxygen (DO) meter
- Thermometer (accurate to 0.1°C)
- Conductivity meter
- Alkalinity titration apparatus
- Hardness titration apparatus

Additional Equipment:

- Test chambers (30-ml disposable cups), color coded.
- Test board with randomized scheme, glass cover
- Light table
- Waste collection bucket

Forms and Paperwork:

Survival and chemistry data form

Alkalinity and hardness data form

10.0 REAGENTS AND STANDARDS

Laboratory reconstituted water (soft water, moderately hard water, or hard water)

Deionized water

Reference toxicant solutions

11.0 SAMPLE COLLECTION, PRESERVATION, SHIPMENT, AND STORAGE

Samples for acute toxicity tests are typically collected, cold-preserved, and shipped to Aquatec. Sample acceptance and log-in procedures are outlined in SOP TOX1-017. After receipt at Aquatec, samples should be refrigerated when not being prepared for use in toxicity tests. The holding time for effluent samples is 36 hours from the time of collection until the time of first use.

12.0 QUALITY CONTROL

The acute toxicity test is judged to be acceptable and to have met Quality Control standards if the associated dilution water and laboratory control meet the survival criterion of 90% or greater. Also, the test conditions must be within the guidelines described in the protocol (Table 1). Standard reference toxicant (SRT) tests (48-h acute with sodium chloride as the toxicant) should be performed with a representative sub-set of the test organisms and result in an LC50 within the boundaries of the control chart. Deviations from acceptance standards should be documented and may result in the test being viewed as "conditionally acceptable" or "unacceptable" (See Section 19.0 below).

13.0 CALIBRATION AND STANDARDIZATION

Not applicable for the toxicity test. Any instrumentation (e.g., water quality instrumentation) required for conducting the test must be calibrated on a daily basis following the relevant SOP or instrument guidelines.

14.0 PROCEDURE**14.1 Test System and Conditions**

The test system and environmental conditions for the daphnid acute toxicity test are summarized in Table 1.

14.2 Test Organisms**Procurement and Documentation**

Test organisms for the daphnid acute test are obtained from Aquatec's laboratory cultures or commercial supplier. Neonates less than 24-h old are used for testing. Neonates collected for testing may be held in individual culture cups until distributed to tests. Feed neonates approximately 2 hours prior to test initiation by pipeting 0.1 ml yeast-Cerophyll-trout chow (YCT) and *Selenastrum capricornutum* to all neonate holding cups. Store the culture cups, covered, at test temperature ($25 \pm 1^\circ\text{C}$ or $20 \pm 1^\circ\text{C}$).

Evaluation of Daphnid Condition and Acclimation

If, during examination, it appears that more than 10 percent of the parent females or the neonates collected for the test have died during the holding period preceding the test, notify the Toxicity Laboratory Director immediately. A decision will be made regarding the possibility of collecting an alternate stock of neonates for testing. If the test is to be delayed, document the reason on the Project Documentation form. Also, it may be necessary to notify the client.

Ordinarily, *C. dubia* neonates are maintained in laboratory water (1:1 mix of Lamôille River water and moderately hard water) up until the time of test initiation. *D. magna* neonates are maintained in hard water while *D. pulex* neonates are maintained in moderately hard water. The temperature of the neonate stock must be maintained at $25 \pm 1^\circ\text{C}$ or ($20 \pm 1^\circ\text{C}$). Return parent stock females

from the neonate cups to the source batch culture. *Ceriodaphnia dubia* are cultured in individual culture cups (one organism per cup) maintained at $25 \pm 1^{\circ}\text{C}$.

If acclimation to a client's receiving water is required, gradual water changes should be made (eg., 25%-50% hourly) to the parent organisms to receiving water. Neonate release and collection should occur in 100 percent receiving water, if acclimation is required.

Food

At the time of neonate collection, or on the morning of a scheduled test, feed neonates in each cup 0.1 ml Selenastrum and 0.1 ml yeast-Cerophyll-trout chow (YCT).

Sample Preparation

Procedures for effluent and diluent sample preparation are described in a separate SOP TOX1-013 ("Preparation of Effluent, Aqueous Samples, and Receiving Water for Toxicity Tests". The typical dilution factors are 0.5, however, consult applicable client permits for the appropriate dilution factor and included permit-limit concentrations when required.

14.3 Initiate the Test

Prepare Test Chambers

For a test where receiving water is used as the diluent, an additional laboratory control must be included in the test array. New 30-mL disposable plastic condiment cups are used as test chambers. Each test treatment will have four true replicates (no water connection); therefore, 28 test cups will be required. When laboratory water is used as the diluent, 24 test cups are required. Label as:

- Client Code
- Treatment
- Replicate (A, B, C, D)

Measure Initial Chemistries

Remove an aliquot (approximately 100 ml) from each test dilution and the controls. This aliquot is used to measure the following parameters: pH, DO, temperature, and conductivity. Record the data directly on the Toxicity Test Data Form for Day 0. The temperature of the solutions must be within a range of $\pm 1^{\circ}\text{C}$ of the selected test temperature (20°C or 25°C). Temperature, DO, and pH are to be recorded daily for all test concentrations.

Recommended water chemistry at time of test initiation

If solutions are not within the ranges specified below, notify the Toxicity Laboratory Director.

pH - acceptable range, 6.0-9.0

DO - acceptable range, 8.0-8.9 mg/L (20°C); 7.4-8.1 (25°C)

Temperature - acceptable range, $19-21^{\circ}\text{C}$ or $24-26^{\circ}\text{C}$

Conductivity - often has a pattern of increasing conductance with increasing sample strength.

Collect a sub-sample of the control and 100% effluent solutions subsequent analysis of hardness and alkalinity. Label and store in a refrigerator at 4°C .

If test solutions are to be stored temporarily prior to starting the test, store the test solutions at the target test temperature.

Decant test solutions to the appropriate test cups, 25 ml per cup. Place the test cups in randomized positions on the test board. Water chemistry measurements are recorded for one replicate of each treatment each day of the test.

Prepare and distribute test organisms

Aquatec Biological Sciences, Inc.
TOX2-001 Daphnid acute R5 050406

Select approximately 20 brood cups (containing neonates collected for the test), each with 8 or more neonates. Pool neonates in a crystallizing dish prior to distribution to the test. Randomly distribute neonates to test containers (5 per test container) with a transfer pipet.

Record the date / time of test start along with initials on the data form.

Aeration

Do not aerate daphnid acute tests.

Feeding

Daphnids are not fed during acute toxicity test of 24-48 hours duration. If the test duration is 96 hours the test animals are fed 2 hours prior to the 48 hour water change.

14.4 Monitoring the test

Test solution renewal (if required) and biological monitoring

Test solutions in each test cup routinely are not renewed for 48 hour tests (unless the project protocol specifies daily renewal). If the test duration is 96 hours, renew test solutions at 48 hours (or daily, if specified in the project-specific protocol). During the renewal procedure, take care to avoid injuring neonates. Renew the controls first, then from low concentrations to higher test concentrations. This procedure will minimize the potential for back-contamination of a lower test concentration with a higher test concentration. The renewal procedure is conducted over a light table.

Remove the test board from the test rack and remove the glass cover. Carefully measure the temperature of one replicate of each test treatment. Record the data on the Final Chemistry Data form.

Fill four new cups coded for laboratory control with approximately 25 mL of laboratory control water. Remove laboratory control Replicate A test cup from the test board.

Transfer all surviving daphnids with a large-bore pipet to the new test cup containing new control solution. Record the number of survivors in the appropriate box for laboratory control, Replicate A.

Continue the water changes until all surviving animals in each treatment have been transferred to "new" water. Pool the "old test water" from the old test cups into a beaker. This must be saved for final chemistry analysis, when required. When renewals have been completed, record initials, date, and time for renewal in the remarks section of the daphnid acute data form. Replace all test cups in the assigned position on the test board.

Final Chemistry (daily during test, if required)

Measure the temperature, pH, and D.O., and conductivity of the pooled water sample decanted from the four replicates for each test treatment. It is preferable to do this immediately after completing the renewal to obtain an accurate representation of the test conditions. Discard the solution in the appropriate waste receptacle.

14.5 Termination of the Toxicity Test

The daphnid acute test may be ended at 24 hours, 48 hours, or 96 hours depending on permit requirements or the project-specific protocol. The guidelines for actual duration of the test are: 24-h test (± 15 minutes from time of test start); 48-h test (± 30 minutes from time of test start); and 96-h test (± 60 minutes from time of test start).

Daphnid survival (end of test)

For each replicate, determine the number of live daphnids remaining and record the results in the appropriate data box of the daphnid acute data form. A daphnid is scored as "alive" if any activity

or self-propelled movement is observed: If necessary, examine organisms under a dissecting microscope to determine the number surviving.

Record the time of test completion in remarks section of the daphnid acute data form.

Final Chemistry (end of test)

Measure and record temperature of one replicate from each test concentration. Combine the test solution from each replicate of each test concentration. Measure and record the final chemistry parameters (conductivity, pH and DO) as specified in 3.2.1 above.

15.0 CALCULATIONS

The 48-h LC50 (or 96-h) and A-NOEC (if required) are calculated using the TOXIS2 software program. Enter the test data into the TOXIS2 template prepared for each client. Run the statistical program for the EPA Acute Toxicity Test flow chart (EPA-821-R-02-012 Section 11 Figures 12 and 13) and print the entered test data and the statistical results. Check the entered data against the original hand-written test data and record the date and initials. Place the statistical printouts in the project folder (by SDG) and return the folder with all paperwork to the project holding file.

16.0 METHOD PERFORMANCE

Test conditions should be at or near the limits outlined in the Protocol (Table 1).

17.0 POLLUTION PREVENTION

Effluents and receiving waters used in toxicity tests are stored refrigerated until the test data have been reviewed and deemed acceptable by the Laboratory Manager or the Director. Contact the Laboratory Manager or Director prior to discarding any stored samples. Effluent and receiving water samples may be discarded following a period of chlorination (e.g., 30 minutes). Effluent samples that have exhibited high toxicity in low test concentrations should be discarded in the "Aqueous Waste" drum for disposal by a certified waste handler. Other samples containing unknown or suspected toxic contaminants should be discarded in the "Aqueous Waste" drum.

18.0 DATA ASSESSMENT AND ACCEPTANCE CRITERIA FOR QUALITY CONTROL MEASURES

The Laboratory Manager and/or the Laboratory Director will review test data to ensure that all elements of the data package are available and complete (Log-in work sheets, test IDs, Chain-of-Custody documentation, toxicity test bench sheets, organism records, and SRT data). The reviewer will check to package for transcription errors, clarity of observations and notations, initials, and completeness. The reviewer will also compare the test data to the Quality Control standards outlined in Section 12.0 above. Any deficiencies will be addressed and resolved (with appropriate notation) prior to assembling the package for the final report.

19.0 CORRECTIVE ACTIONS FOR OUT-OF-CONTROL DATA

Data that do not meet Quality Control standards will be assessed and a decision will be made whether to reject the test data and deemed "unacceptable" (requiring a repeated test) or "provisionally acceptable" (requiring a qualifier in the final report). An example of an unacceptable test could include one where the controls fail to meet the 90% survival requirement. A designation of a "provisionally acceptable" test might include one where samples were received outside of prescribed holding temperatures or times.

20.0 CONTINGENCIES FOR HANDLING OUT-OF-CONTROL OR UNACCEPTABLE DATA

Analysts experiencing an "out-of-control" event (e.g., test replicate spills, test solutions improperly prepared, test temperatures out of target range, etc.) should note the event on the bench sheet and also notify the Laboratory Manager or Laboratory Director. A decision will be made by the Laboratory Manager or Laboratory Director as to whether to continue the test (with the appropriate qualifier) or whether to terminate the test. If the test is terminated, the client should be notified so that re-sampling and re-testing can be scheduled as soon as possible.

21.0 WASTE MANAGEMENT

See 17.0 above.

22.0 REFERENCES

The test procedure is based upon the guidelines outlined in EPA-821-R-02-012, *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms* (5th Ed.). Regional guidelines may require in slight modifications of the test protocol (e.g., solution renewals, test duration, target test temperature).

23.0 TABLES, DIAGRAMS, FLOW CHARTS, AND VALIDATION DATA

Refer to Tables 12 and 13 (pp. 51 – 54 of EPA-821-R-02-012) and the EPA Statistical Flow Chart, Figures 12 and 13 of EPA-821-R-02-012 Section 11 and related discussions within that document.

24.0 TRAINING

Laboratory analysts performing this procedure must receive instruction from a previously trained analyst. Individual parts of the overall procedure may be performed under the guidance of a previously-trained analyst.

To be qualified for the overall procedure outlined in this SOP, the analyst must:

- Read this SOP.
- Receive verbal and visual instruction.
- Be trained on pertinent associated SOPs.

Approvals:

Laboratory Manager:	Date:
---------------------	-------

Table 1. Test Protocol

PROTOCOL: EPA 2002. *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, Methods 2002.0 (*Ceriodaphnia dubia*) and 2021.0 (*Daphnia magna* and *Daphnia pulex*) acute toxicity tests.

1. Test type:	Static, no renewal; or daily renewal
2. Test temperature:	25 ± 1°C (or 20 ± 1°C)
3. Light quality:	Ambient laboratory illumination
4. Photoperiod:	16 hr. light, 8 hr. dark
5. Test chamber size:	30 ml
6. Test solution volume:	25 ml / replicate
7. Renewal of test concentrations:	None if static test, daily if renewal test
8. Age of test organisms:	Less than 24 h
9. No. organisms / test chamber:	5
10. No. of replicate chambers / concentration:	4
11. No. of organisms / concentration:	20
12. Feeding regime:	Feed 0.1 ml of YTC and algal suspension prior to testing. Not fed during test for 48-h tests. Feed 2 hours prior to 48-h (before renewal) for 96-h tests
13. Cleaning:	None
14. Aeration:	None
15. Dilution water:	Receiving Water or laboratory water
16. Test concentrations:	6.25, 12.5, 25, 50, 100% (unless specified otherwise by permit)
17. Laboratory control:	Reconstituted water (soft, moderately hard, or hard)
18. Test duration:	48 h; 96 h
19. Monitoring:	Day 0: temperature, DO, pH, and conductivity. Day 1: temperature. Day 2 (or 4): temperature, DO, pH, and conductivity. Hardness, alkalinity on each new sample. Biological monitoring daily
19. End points:	Survival
20. Reference toxicant test:	Sodium chloride 48-h LC50
21. Test acceptability (Control performance):	90% or greater survival
22. Data interpretation:	LC50 / A-NOEC using TOXIS2 statistical program

APPENDIX 2

Laboratory Reports

Columbia Analytical Services, Inc.
O'Brien & Gere, Inc.

NPDES Sampling
GE Pittsfield
Toxicity pH

Date: 7/10/06

Acute Dry
Acute Wet
Chronic (Day 1, 2 or 3)

Split Sample
C. TOX 1 / A. TOX
July 2006

Effluent Composite

Sample # A7407C
Date 7-10-06
Time 11⁰⁰AM
pH 7.81 su

River/Dilution Water

Sample # A7406R
Date 7-10-06
Time 8¹⁵AM
pH 7.78 su

Mark Wawrowsky 7-10-06
Signed & Dated

COLUMBIA ANALYTICAL SERVICES

Reported: 07/31/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7407CDM

Date Sampled : 07/10/06 11:00 Order #: 915983 Sample Matrix: WATER
Date Received: 07/11/06 Submission #: R2632318

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	07/14/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	07/14/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	07/14/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	07/14/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	07/14/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	07/14/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	07/14/06	1.0
ZINC	200.7	0.0200	0.0200 U	MG/L	07/14/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/31/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7407CTM

Date Sampled : 07/10/06 11:00 Order #: 915984 Sample Matrix: WATER
Date Received: 07/11/06 Submission #: R2632318

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	07/14/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	07/14/06	1.0
CALCIUM	200.7	1.00	93.9	MG/L	07/14/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	07/14/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	07/14/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	07/14/06	1.0
MAGNESIUM	200.7	1.00	38.0	MG/L	07/14/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	07/14/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	07/14/06	1.0
ZINC	200.7	0.0200	0.0200 U	MG/L	07/14/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/31/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7406RTM

Date Sampled : 07/10/06 08:15 Order #: 915985 Sample Matrix: WATER
Date Received: 07/11/06 Submission #: R2632318

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	07/14/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	07/14/06	1.0
CALCIUM	200.7	1.00	24.4	MG/L	07/14/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	07/14/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	07/14/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	07/14/06	1.0
MAGNESIUM	200.7	1.00	8.72	MG/L	07/14/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	07/14/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	07/14/06	1.0
ZINC	200.7	0.0200	0.0200 U	MG/L	07/14/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/31/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7406R

Date Sampled : 07/10/06 08:15 Order #: 915981 Sample Matrix: WATER
Date Received: 07/11/06 Submission #: R2632318

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
AMMONIA	350.1	0.0500	0.0500 U	MG/L	07/17/06	10:52	1.0
CHLORIDE	300.0	0.200	18.0	MG/L	07/13/06	17:40	10.0
TOTAL ALKALINITY	310.1	2.00	94.3	MG/L	07/17/06	09:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	7.01	MG/L	07/20/06	17:10	1.0
TOTAL PHOSPHORUS	365.1	0.0500	2.14	MG/L	07/17/06	12:34	1.0
TOTAL SOLIDS	160.3	10.0	148	MG/L	07/14/06	10:00	1.0
TOTAL SUSPENDED SOLIDS	160.2	1.00	2.50	MG/L	07/12/06	12:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/31/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7407C

Date Sampled : 07/10/06 11:00 Order #: 915982 Sample Matrix: WATER
Date Received: 07/11/06 Submission #: R2632318

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
AMMONIA	350.1	0.0500	0.487	MG/L	07/17/06	10:52	1.0
CHLORIDE	300.0	0.200	210	MG/L	07/16/06	01:20	40.0
TOTAL ALKALINITY	310.1	2.00	371	MG/L	07/17/06	09:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	6.10	MG/L	07/20/06	17:48	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/17/06	12:34	1.0
TOTAL SOLIDS	160.3	10.0	739	MG/L	07/14/06	10:00	1.0
TOTAL SUSPENDED SOLIDS	160.2	1.00	1.00 U	MG/L	07/12/06	12:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/31/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7407CCN

Date Sampled : 07/10/06 11:00 Order #: 915986 Sample Matrix: WATER
Date Received: 07/11/06 Submission #: R2632318

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
TOTAL CYANIDE	335.4	0.0100	0.0500	MG/L	07/18/06	11:45	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/31/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7406RCN

Date Sampled : 07/10/06 08:15 Order #: 915987 Sample Matrix: WATER
Date Received: 07/11/06 Submission #: R2632318

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL CYANIDE	335.4	0.0100	0.0100 U	MG/L	07/18/06	11:45	1.0

APPENDIX 3

Chain of Custody Forms

10/10/10

10/10/10

10/10/10

10/10/10



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

OF PAGE

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475

Project Name: **NPDES Permit**

Project Manager: **J. Nicholson**

Company/Address: **GE Corp Environmental**

159 Plastics Ave Bldg 59

Rittsfield MA 01201

Phone: **413 448 5915**

FAX: **413 448 5935**

Sampler's Signature: **Mark W. Asnesky**

Sampler's Printed Name: **Mark W. Asnesky**

FOR OFFICE USE ONLY

LAB ID

DATE

SAMPLING TIME

MATRIX

CLIENT SAMPLE ID

64T-A7417

64G-A7420

A7406R

A7407C

A7406R

A7407C

A7407R

A7406R

A7407C

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Cooler Receipt And Preservation Check Form

Project/Client GG Pittsfield Submission Number _____

Cooler received on 7-11-06 by: NE COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
 2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
 3. Did all bottles arrive in good condition (unbroken)? YES NO N/A
 4. Did any VOA vials have significant air bubbles? YES NO
 5. Were Ice or Ice packs present? CAS/ROC CLIENT
 6. Where did the bottles originate? 5.4° 3.4°
 7. Temperature of cooler(s) upon receipt: Yes Yes Yes
- Is the temperature within 0° - 6° C?: No No No
- If No, Explain Below

Date/Time Temperatures Taken: 7-11-06 @ 10:06

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples: _____

PC Secondary Review: 7-11-06

- Cooler Breakdown: Date: _____ by: _____
1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
 2. Did all bottle labels and tags agree with custody papers? YES NO
 3. Were correct containers used for the tests indicated? YES NO
 4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A
- Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added	Final pH
pH	Reagent						
12	NaOH						
2	HNO ₃						
2	H ₂ SO ₄						
Residual Chlorine (+/-)	for TCN & Phenol						
5.9**	P/PCBs (608 only)						

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments:

PC Secondary Review: _____

7/10/2006

CHRONIC AQUATIC TOXICITY COMPOSITE 7C1

Split Sample
C. TOX 1 + AD TOX
JULY 2006

Month: JUL
Week: 3
Fiscal Wk: 28
Weather: Chronic Composite Sample #1

	Gallons/Day	MI in Composite	Percent of Composite
001	41,690	2,977.43	19.85%
004	0	-	0.00%
007	0	-	0.00%
64T	8,440	602.77	4.02%
64G	159,900	11,419.80	76.13%
09A	0	-	0.00%
09B	0	-	0.00%
	210,030	15000	100.00%

The Chronic Toxicity Composite was made today by Mark Wasnewsky @ 11:00 AM
according to the table above, and given the sample ID# A7407C

COC 08G071006

Mark Wasnewsky
Signed

7-10-06
Date

Attachment D

**NPDES Chronic Biomonitoring Report
July 2006**

July 31, 2006

Mr. Jeffrey Nicholson
GE Corporate Environmental Programs
159 Plastics Avenue
Pittsfield, MA 01201

Re: NPDES Chronic Biomonitoring Report for July 2006
Submission #: R2632318, R2632624 and R2632654

Dear Mr. Nicholson:

Enclosed is our report on the Chronic Whole Effluent Toxicity testing conducted in July 2006. The Outfall Composite samples were collected on 7/10/06 at 11:00 am, 7/12/06 at 11:00 am and 7/14/06 at 11:00 am. The Housatonic River samples were collected on 7/10/06 at 8:15 am, 7/12/06 at 8:15 am and 7/14/06 at 8:15 am. The Outfall Composite and Housatonic River samples were analyzed at Columbia Analytical Services for total cyanide, ammonia, total organic carbon, total phosphorus, chloride, total solids, total suspended solids, total residual chlorine, and total metals. Dissolved metals were analyzed for only on the Outfall Composite samples. Results are presented in Appendix 2. The Outfall Composite and Housatonic River samples were sent directly by General Electric to Aquatec Biological Services for the chronic aquatic toxicity testing including the analysis of alkalinity, hardness, specific conductance, and pH. Results are presented in Appendix 1.

Should you have any questions please contact me at (585)288-5380 x130.

Thank you for allowing us to provide this service.

Sincerely,

COLUMBIA ANALYTICAL SERVICES



Carlton Beechler
Project Manager

enc.

CC: Jill Piskorz, Pat Fuse and Nicole Evans vial email.

NPDES BIOMONITORING REPORT

GENERAL ELECTRIC COMPANY

Pittsfield, MA

NPDES PERMIT MA 0003891

Reproductive Chronic Toxicity Monitoring

July 2006

WHOLE EFFLUENT TOXICITY TEST REPORT CERTIFICATION

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

Executed on

(Date)

(Authorized Signature)

Michael T. Carroll

General Electric Co. – Pittsfield, MA
Permit MA0003891

Prepared by: Carlton R. Beechler

July 31, 2006

TABLE OF CONTENTS

	<u>PAGE</u>
I. Summary	1
II. Review of Toxicity Analytical Results	2
III. Review of Wastewater Sampling Procedures	3
IV. Review of Individual Discharges	5

Table I – Summary of Analytical Test Results

Appendices:

1. Chemical and Acute Toxicity Data from Aquatec Biological Sciences
2. Laboratory Reports from Columbia Analytical Services, Inc. and O'Brien & Gere, Inc.
3. Chain of Custody Forms

I. Summary

On July 9-14, 2006 sampling of wastewater discharges from the General Electric Company facility in Pittsfield, MA was conducted in accordance with the chronic toxicity testing requirement of the GE NPDES Permit MA0003891. Three composite effluent samples were collected from GE outfalls 001, 005-64T, 005-64G and 09B over a 6-day period. Sampling dates were July 9-10, July 11-12 and July 13-14. If flow did not occur at an outfall during the 24 hour period, no sample was collected (see chain of custody records in Appendix 3 for details of the outfalls sampled during each period). Each set of samples were combined in a flow-proportioned manner to generate a single wastewater sample that was shipped via FedEx to Aquatec Biological Sciences in Williston, Vermont for chronic toxicity testing. Grab samples of Housatonic River water, to be used as dilution water in the toxicity test, were collected upstream of the GE discharges on July 10, 12, 14 2006 and shipped to AquaTec along with the wastewater composite. AquaTec dechlorinated the composite sample prior to the acute toxicity test following the toxicity reduction procedures summarized in a letter dated November 11, 1993 to EPA Region I from JG Ruebesam of General Electric Company. The composite wastewater sample and the dilution water sample were tested for chemical constituents by O'Brien & Gere, Inc. and Columbia Analytical Services. The analytical results are summarized in Table I and the detailed laboratory test data are include as Appendices to this report. As a result of land transfer documents executed on April 27, 2005 and recorded in the Berkshire County Registry of Deeds on May 2, 2005, Outfalls 001 and 004 were transferred to the Pittsfield Economic Development Authority (PEDA). Outfalls 001 and 004 DMRs will no longer be submitted under the GE NPDES Permit No. MA0003891. However, GE's NPDES Permit requires that the metal and toxicity composites to be made by compositing samples from the following outfalls: 001, 004, 005, 007, and 009. These two composites will continue to include an aliquot of water from outfall 001 and outfall 004, and will be reported on GE's DMR until further actions by the Agencies.

The results from Aquatec Biological Sciences for the chronic toxicity test on the wastewater discharge sample indicated a No Observed Chronic Effect Level (NOCEL) of 100%. No Limit is established for NOCEL in the GE NPDES permit.

II. Review of Toxicity Test Results

The wastewater discharge sample collected on July 9-10, July 11-12 and July 13-14, 2006 were tested for 7 day chronic toxicity using *Ceriodaphnia dubia* organisms. The sample did not require dechlorination with sodium thiosulfate (Na₂S₂O₃) prior to toxicity testing. Aquatec Biological Sciences reported the results of this toxicity testing as follows:

Effluent toxicity as NOCEL =	100%
Effluent toxicity as LC ₅₀ =	>100%

No limit is established for NOCEL in the GE NPDES permit.

The following table summarizes the results of the control sample analyses performed by AquaTec during the chronic toxicity bioassay:

<u>Control Analysis</u>	<u>Result</u>	<u>Acceptable Limit</u>
Survival in 100% dilution water	100%	≥80%
Reproduction in 100% dilution water (average# of offspring/female/day)	30.9	≥15%
Reproduction in 100% dilution water (% of females having three broods)	100%	≥60%

The survival and reproduction rate of *Ceriodaphnia* in the upstream dilution water control samples was within acceptable limits, indicating that the results of the toxicity test are valid.

III. Review of Wastewater Sampling Procedures

Three composite effluent samples of the individual NPDES wastewater discharges were collected over a 24-hour period. Each composite effluent sample was generated by combining samples from the individual NPDES discharges. Each group of individual samples collected over the same 24 hour period were composited in a flow-weighted manner to generate a single combined discharge sample for toxicity testing and chemical analysis.

The 24-hour composite samples from the individual discharges were collected as follows:

Each automatic sampler (at outfall 001, 64T, 64G, and 09B) was programmed to collect approximately 7 liters of wastewater into a 10-liter glass container in a time-proportioned manner over a 24-hour period. Outfalls 004, 007, and 09A have been plugged and no longer flow.

All sample containers were packed in ice or refrigerated to keep the wastewater samples cold during the 24-hour collection period.

Flow meter readings were taken at the beginning and end of the 24-hour collection period to determine the total 24-hour flow for each wastewater discharge.

At the end of the 24-hour collection period, the discharge samples were taken to Building 64G where O'Brien & Gere personnel composited these samples, in a flow weighted manner, to generate a single combined sample for the chronic toxicity test and the chemical analyses, as follows:

The proportions of each individual discharge sample needed to produce a single combined sample were calculated from the flow measurements. The calculated sample volumes were then transferred from their original collection containers to a 2.5 or 5 gallon mixing container. The combined discharge sample was then split into various containers for toxicity testing and chemical analyses. These containers were shipped by vendor courier to AquaTec for toxicity testing and by FedEx (overnight) to Columbia Analytical Services for chemical analyses. All samples were chilled with ice packs during shipment.

A grab sample of Housatonic River water was collected on the second day of each 24 hour period at the Lyman Road Bridge in Hinsdale, MA, upstream of the GE site. This sample was split for chemical analysis and toxicity testing in a similar manner as the combined effluent sample (see above).

Details of the times and dates of sample collection as well as the names of the individuals collecting and transporting the samples are provided on the chain of custody forms in Appendix 3 of this report.

IV. Review of Individual NPDES Discharges

The following is a brief description of each of the seven outfalls that are monitored for acute and chronic toxicity in accordance with NPDES Permit MA0003891 issued to the General Electric Company, Pittsfield, MA.

1. Outfall 001 is permitted to discharge storm water runoff from the oil/water separator in Building 31W to Silver Lake.
2. Outfall 004 is permitted to discharge storm water runoff to Silver Lake. (**Outfall plugged**)
3. Outfall 005 is permitted to discharge contact cooling water, non-contact cooling water, treated process water and storm water runoff from the Wastewater Treatment Plant in Building 64T, and treated groundwater from the Groundwater Treatment Plant in Building 64G to the Housatonic River. Monitoring samples are collected separately from the effluents of 64G and 64T. Both samples are included in the flow composite sample used for toxicity testing.
4. Outfall 007 is permitted to discharge stormwater runoff to the Housatonic River. (**Outfall plugged**)
5. Outfall 09A is permitted to discharge non-contact cooling water and stormwater runoff to Unkamet Brook. (**Outfall plugged**)
6. Outfall 09B is permitted to discharge non-contact cooling water, treated process water and stormwater runoff from the oil/water separator in Building 119W to Unkamet Brook.

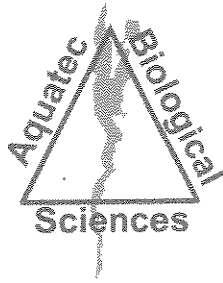
Table I – Summary of Analytical results for NPDES Outfall Composite Sample and Housatonic River Dilution Water July 9-14, 2006

Aquatic Toxicity Results:		No Observed Effect Level (NOCEL) =				100%	
						LC50 =	
						>100%	
Chemical Analyses: (all results are mg/L unless otherwise indicated)							
		July 9-10	July 9-10	July 11-12	July 11-12	July 13-14	July 13-14
		Effluent	Housatonic	Effluent	Housatonic	Effluent	Housatonic
<u>Parameter Tested</u>	<u>Laboratory</u>	<u>Composite</u>	<u>River</u>	<u>Composite</u>	<u>River</u>	<u>Composite</u>	<u>River</u>
Ammonia	CAS	0.487	ND (0.0500)	0.443	ND (0.0500)	0.269	ND (0.100)
Chloride	CAS	210	18	151	18.9	129	12.5
Total Alkalinity	CAS	371	94.3	265	107	241	59.5
Total Organic Carbon	CAS	6.1	7.01	9.73	5.82	6.28	6.39
Total Phosphorus	CAS	ND (0.0500)	2.14	0.0917	ND (0.0500)	ND (0.0500)	ND (0.0500)
Total Solids	CAS	739	148	5.79	170	492	108
Total Suspended Solids	CAS	ND (1.00)	2.50	6.90	1.30	2.60	5.30
Hardness	Aquatec	374	102	280	114	242	70
Spec. Conductance (umhos)	Aquatec	1361	259	1022	289	904	172
pH (SU)	Aquatec	7.8	7.5	7.6	7.4	7.7	7.2
TRC (start of toxicity test)	Aquatec	ND	ND	ND	ND	ND	ND
Cyanide	CAS	0.0500	ND (0.0100)	0.0258	ND (0.0100)	0.0314	ND (0.0100)
Aluminum, total	CAS	ND (0.100)	ND (0.100)	0.222	ND (0.100)	ND (0.100)	0.123
Aluminum, dissolved	CAS	ND (0.100)	NA	ND (0.100)	NA	ND (0.100)	NA
Cadmium, total	CAS	ND (0.00500)	ND (0.00500)	ND (0.00500)	ND (0.00500)	ND (0.00500)	ND (0.00500)
Cadmium, dissolved	CAS	ND (0.00500)	NA	ND (0.00500)	NA	ND (0.00500)	NA
Chromium, total	CAS	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)
Chromium, dissolved	CAS	ND (0.0100)	NA	ND (0.0100)	NA	ND (0.0100)	NA
Copper, total	CAS	ND (0.0200)	ND (0.0200)	ND (0.0200)	ND (0.0200)	ND (0.0200)	ND (0.0200)
Copper, dissolved	CAS	ND (0.0200)	NA	ND (0.0200)	NA	ND (0.0200)	NA
Lead, total	CAS	ND (0.00500)	ND (0.00500)	0.0062	ND (0.00500)	ND (0.00500)	ND (0.00500)
Lead, dissolved	CAS	ND (0.00500)	NA	ND (0.00500)	NA	ND (0.00500)	NA
Nickel, total	CAS	ND (0.0400)	ND (0.0400)	ND (0.0400)	ND (0.0400)	ND (0.0400)	ND (0.0400)
Nickel, dissolved	CAS	ND (0.0400)	NA	ND (0.0400)	NA	ND (0.0400)	NA
Silver, total	CAS	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)	ND (0.0100)
Silver, dissolved	CAS	ND (0.0100)	NA	ND (0.0100)	NA	ND (0.0100)	NA
Zinc, total	CAS	ND (0.0200)	ND (0.0200)	0.0589	ND (0.0200)	0.0294	ND (0.0200)
Zinc, dissolved	CAS	ND (0.0200)	NA	0.0499	NA	0.0364	NA
pH (SU)	OB&G	7.81	7.78	7.78	7.84	7.75	7.73
Hardness	Aquatec	374	102	280	114	242	70
All results are mg/L unless otherwise indicated.							
NA – Not analyzed							
ND – Not detected (Number in parentheses is detection limit.)							

APPENDIX 1

Chemical and Acute Toxicity Data

Aquatec Biological Sciences



Aquatec Biological Sciences



Ecology



Environmental
Toxicology



Natural Resource
Assessments



Microbiology

July 28, 2006

Mr. Carl Beechler
Columbia Analytical Services,
1 Mustard Street – Suite 250
Rochester, NY 14609

Dear Mr. Beechler:

Enclosed please find one bound and one unbound copies of our report of the results for chronic whole effluent toxicity testing of samples received from GE Pittsfield, Massachusetts on July 10 - 14, 2006.

According to the Chain-of-Custody documentation, samples for Whole Effluent Toxicity (WET) Testing were collected on July 10, 12, and 14, 2006. The samples were transported to Aquatec Biological Sciences, Inc. by courier and delivered on the same day. The initial effluent sample was logged in for the short-term chronic toxicity test with *Ceriodaphnia dubia* (EPA Method 1002.0). Subsequent effluent samples were used for toxicity test renewals. The receiving water samples were logged in for dilution water. A subsample of each sample was checked for residual chlorine (not detected) and for alkalinity and hardness measurements at Aquatec Biological Sciences, Inc. The toxicity test was started on July 11, 2006, within the specified holding time.

At the conclusion of the toxicity test on July 17, 2006, a final count of surviving organisms and offspring (neonates) was completed. The average survival was 90 - 100 percent in all test concentrations. Acute toxicity or chronic to *Ceriodaphnia dubia* was not detected, with the 48-hour LC50 reported as >100% effluent and the Chronic No-Observed-Effect Concentration (C-NOEC) reported as 100% (Section 4.1 of the report).

If you have any questions regarding the report, please call Dr. Philip C. Downey or me.

Sincerely,


John Williams
Manager, Environmental Toxicology

This report consists of the following numbered pages:

1 - 59

**Chronic Whole Effluent Toxicity Testing
Of Wastewaters Discharged from
The General Electric Plant
Pittsfield, Massachusetts**

Samples Collected in July 2006

Submitted to:
**General Electric
Area Environmental & Facility Programs
100 Woodlawn Avenue
Pittsfield, Massachusetts 01201**

SDG number: 9664

Effluent ID: Outfall Composite A7407C Aquatec sample number: 32270
Effluent ID: Outfall Composite A7409C Aquatec sample number: 32284
Effluent ID: Outfall Composite A7411C Aquatec sample number: 32341

Receiving water ID: Housatonic River A7406R Aquatec sample number: 32271
Receiving water ID: Housatonic River A7408R Aquatec sample number: 32285
Receiving water ID: Housatonic River A7410R Aquatec sample number: 32342
Study Director: John Williams

July 27, 2006

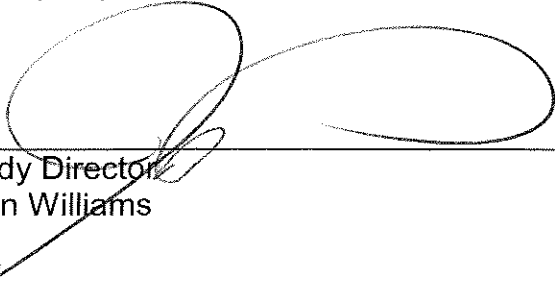
Submitted by:
**Aquatec Biological Sciences, Inc.
273 Commerce Street
Williston, Vermont 05454
Phone: (802) 860-1638 Fax: (802) 860-1638**

Accreditation: NH Environmental Laboratory Accreditation Program
NELAP / NELAC accredited for the requested analysis.

Signatures and Approval


Submitted by:

Aquatec Biological Sciences, Inc.
273 Commerce Street
Williston, Vermont 05454
Phone: (802) 860-1638
Fax: (802) 860-1638



Study Director
John Williams

7/28/06
Date



Quality Assurance Officer
Philip C. Downey, Ph. D. *PK*

7/28/06
Date

Whole Effluent Toxicity Test Report Certification

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

Executed on:

Date: 7/28/06

Authorized signature

John Williams

Name

Manager, Environmental Toxicology

Title

Aquatec Biological Sciences, Inc.

Laboratory

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Summary

Chronic Survival and Reproduction Toxicity Test with *Ceriodaphnia dubia*

Sponsor: General Electric

Protocol title: US EPA-821-R-02-013. *Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*, 4th Ed., October 2002. Method 1002.0

Aquatec SDG: 9664

Test material: Composite effluent from the General Electric Company located in Pittsfield, Massachusetts

GE sample ID: Outfall Composite A7407C
Outfall Composite A7409C
Outfall Composite A7411C

Dilution water: Water from the Housatonic River (grab sample)

GE sample ID: Housatonic River A7406R
Housatonic River A7408R
Housatonic River A7410R

Dates collected: July 10, 12, and 14, 2006

Date received: July 10, 12, and 14, 2006

Test dates: July 11-17, 2006

Test concentrations: 100%, 75%, 50%, 25%, 12.5%, 6.25% effluent.
Dilution water control (Housatonic River)
Laboratory control 1 (culture water)
Laboratory control 2 (culture water with sodium thiosulfate)

Acute Toxicity Values

Species	Exposure Period	48-hour LC50 (% effluent)	A-NOAC (% effluent)
<i>Ceriodaphnia dubia</i>	48 hours	>100%	100%

Chronic Toxicity Values

Species	Endpoint	Exposure Period	C-NOEC (% effluent)	C-LOEC (% effluent)
<i>Ceriodaphnia dubia</i>	Survival	6 – 7 days	100%	>100%
<i>Ceriodaphnia dubia</i>	Reproduction	6 – 7 days	100%	>100%

1.0 Introduction

1.1 Background

In 1972, amendments were made to the Clean Water Act (CWA) prohibiting the discharge of any pollutant from a point source to waters of the United States, unless the discharge is authorized by a National Pollutant Discharge Elimination System (NPDES) permit. Since the passing of the 1972 amendments to the CWA, significant progress has been made in cleaning up industrial wastewater and municipal sewage point source discharges. EPA defines point sources as discrete discharges via pipes or man-made ditches.

In 1984, the U.S. Environmental Protection Agency (EPA) released a national policy statement and a supporting document that recommended, where appropriate, effluent permit limits should be based on effluent toxicity as measured in aquatic toxicity tests. Generally, permits require that no toxic discharge occur in toxic amounts. The routine use of dilution-series toxicity tests and/or biologically-based criteria (i.e., invertebrate and vertebrate community studies) have become increasingly utilized to calculate or estimate the potential toxicity of a discharge.

EPA has the authority to delegate primary responsibility for the implementation, permitting, and enforcement of NPDES regulations to appropriate State regulatory agencies. Even when EPA delegates this authority to the states, EPA still maintains oversight responsibility.

1.2 Objective of the General Electric Study

The objective of this study was to measure the chronic toxicity of the composite wastewater discharged by the General Electric facility located in Pittsfield, Massachusetts to the Housatonic River. The water flea, *Ceriodaphnia dubia*, is exposed to effluent and dilutions of effluent under static conditions with daily renewal of test solutions. *Ceriodaphnia dubia* is routinely used by regulatory agencies and by contract laboratories for toxicity testing and EPA has published guidance documents for the performance of this test (U.S. EPA, 2002).

A toxicity test was conducted from July 11-17, 2006 at Aquatec Biological Sciences, Inc. (Aquatec) located in Williston Vermont. Aquatec Biological Sciences, Inc. holds NELAC accreditation for the requested whole effluent toxicity test. All original raw data and the final report produced for this study are stored in Aquatec's archives in Williston, Vermont.

2.0 Materials and Methods

2.1 Protocol

Procedures used in this chronic toxicity test followed those described in the Aquatec Standard Operating Procedure (SOP) TOX2-002, Cladoceran, *Ceriodaphnia dubia* Survival and Reproduction Toxicity Test R4, May 4, 2006. This SOP generally follows the standard methodology presented in U.S. EPA. 2002 (EPA-821-R-02-013). *Methods for Measuring the Chronic Toxicity of*

Effluents and Receiving Waters to Freshwater Organisms, 4th Ed., October 2002, Method 1002.0 (as summarized in Appendix 2 of this report). A copy of the SOP is located in Appendix 6 (Controlled document, please do not copy or distribute.)

Additional SOPs used in this study are outlined below:

Title	SOP Number	Revision Date
Sample Acceptance	TOX1-017	Rev. 4, February, 2004
Hardness – total titrimetric method	TOX1-011	Rev. 3, May 2003
Alkalinity – total titrimetric method	TOX1-010	Rev. 6, April 2004
Thermo-Orion 145 A+ Conductivity Meter	TOX1-016	Rev. 1, April 2004
Dissolved oxygen	TOX1-006	Rev. 7, April 2004
pH measurement	TOX1-007	Rev. 2, April 2004
Salinity: refraction method	TOX1-008	Rev. 3, January, 2003

2.2 Effluent and Receiving Water Samples

Effluent samples were collected by GE personnel from July 9-10, 2006 (initial sample); July 11-12, 2006 (first renewal sample), and July 13-14, 2006 (second renewal sample). Receiving water samples were grab samples collected from the Housatonic River on July 10, 12, and 14, 2006. Samples were delivered to Aquatec on the same day as they were collected. Upon receipt at Aquatec on the temperature of the temperature blank contained within the cooler was within the range of 0.0°C to 6.0°C. The effluent and receiving water were prepared for testing and characterized (Table 1). The receiving water was the dilution water for preparing effluent concentrations and was also the reference control for statistical comparisons.

2.3 Control water

Laboratory control water for the toxicity test was a 1:1 mixture of laboratory reconstituted moderately hard water and 60-micron filtered river water collected from the Lamoille River, Vermont. This water was characterized for the following parameters: pH (7.6); dissolved oxygen (8.2 mg/L); conductivity (207 uS/cm). An additional dechlorination control (laboratory water with 0.2 N sodium thiosulfate added) was included in the test array, even though chlorine was not detected in the effluent sample.

2.4 Test Organism

Daphnids (*Ceriodaphnia dubia*), less than 24-hours old and collected within and eight-hour period were obtained from Aquatec laboratory cultures. The culture system consisted of brood boards with 1-oz cups containing approximately 20 mL of culture medium and one daphnid. The culture water was laboratory reconstituted moderately hard water mixed in a 1:1 ratio with filtered Lamoille River, VT water. Prior to use, the culture water was characterized:

Parameter	Result
Total hardness (mg/L)	Within range of 50-110 mg/L
Alkalinity (mg/L as CaCO ₃)	Within range of 50-100 mg/L
pH	Nominal 7.0 – 8.0

The culture area was maintained at a nominal temperature of 25°C (range 24 – 26 °C) with a regulated photoperiod of 16 hours light and 8 hours of darkness.

Daphnid cultures were fed daily a combination of green algae (*Selenastrum capricornutum*) and YCT obtained from Aquatic BioSystems of Fort Collins, Colorado. Daphnids were transferred to new culture medium daily.

Beginning approximately 24 hours before toxicity test initiation neonates were removed from the culture cups. Offspring produced within eight hours were used for toxicity testing when the neonates were 24 hours old or less.

2.5 Test Procedures

Prior to initiating the toxicity test, a sub-sample of effluent and receiving water was decanted for subsequent alkalinity and hardness determination. A sub-sample was also checked for presence of chlorine to determine whether dechlorination of effluent is required. Chlorine was not detected, therefore dechlorination of the effluent was not required. The sample was then aerated and warmed to test temperature.

The toxicity test was conducted at effluent concentrations of 100%, 75%, 50%, 25%, 12.5%, and 6.25% effluent. Test concentrations were prepared by diluting the appropriate volume of effluent with dilution water to a total volume of 300 mL. Test solutions were then decanted to ten replicate 30-mL cups per concentration, each containing approximately 20 mL of test solution. Three sets of control replicates were also included in the test array, set up as the effluent replicates. The controls included: Housatonic River water (dilution control), a laboratory control (a mix of moderately hard water and Lamoille River, VT water), and a laboratory control with sodium thiosulfate added (dechlorination control). The dechlorination control was included in the test array even though residual chlorine was not detected in the effluent.

Prior to testing, daphnids less than 24-hours old were collected from the cultures, pooled in Carolina bowl, and fed. The test was initiated when the daphnid neonates were transferred to the replicate test cups, one daphnid per cup. The toxicity test cups were incubated to maintain temperature in the range of 24°C to 26 °C. The lighting cycle was 16 hours light and eight hours dark and a luminance of approximately 80 ft-c.

The criteria for ending the toxicity test was based upon the controls reaching an average of 15 neonates or more per female and at least 60 percent of surviving females having produced three broods during the test.

2.6 Test Monitoring

The number of surviving daphnids and the number of young produced was observed at approximately 24-hour intervals during the test, with the final count of surviving daphnids and young at the end of the test. Temperature was measured daily in one replicate of each test treatment. The parameters of pH, dissolved oxygen, and conductivity were measured daily on a composite of the test solutions before and after renewal.

Total hardness was measured by the EDTA titrimetric method and total alkalinity was measured by potentiometric titration to an endpoint of 4.5 on each new sample. The check for residual chlorine was performed with an acidified sample to which potassium iodide and starch indicator added. If chlorine was detected, the color was titrated away with 0.02 N sodium thiosulfate to determine the equivalent volume of 0.2 N sodium thiosulfate to add to effluent (if needed).

Dissolved oxygen was measured with a YSI Model 58 dissolved oxygen meter. A Beckman Phi 40 was used to measure pH. A Thermo-Orion Model 145 conductivity meter was used to measure conductivity.

2.7 Reference Toxicant Test

A acute / chronic standard reference toxicant (SRT) test was conducted monthly. The SRT test was conducted as a quality control procedure to establish the health and sensitivity of the test organisms. The SRT included four concentrations of reagent grade sodium chloride (NaCl) with nominal concentrations of 0.25, 0.5, 1.0, 2.0, and 3.0 g NaCl/L. Ten test replicates, each containing one daphnid were test at each concentration and the laboratory control.

3.0 Statistics

3.1 Statistical protocol

The concentration-response relationships observed were characterized by the median lethal concentration (LC50, based on survival data at 48-hours of the test), which was the calculated concentration lethal to 50 percent of the test organisms. If no concentrations resulted in 50% mortality, the LC50 was reported as greater than the highest concentration effluent (in this case >100% effluent), by direct observation. If greater than 50 percent mortality was observed in any effluent treatment, then a computer program (TOXIS2) was used to calculate the LC50 value, following the U.S. EPA statistical flowchart (Appendix 3).

The Acute-No-Observable-Effect Concentration (A-NOEC) was determined statistically using multiple comparison tests (TOXIS2), with the receiving water control as the reference.

The Chronic-No-Observable-Effect Concentration (C-NOEC) was determined based on the end-of-test survival and reproduction data using multiple comparison tests (TOXIS2), with the receiving water control as the statistical reference.

4.0 Results

4.1 Effluent Toxicity Test

Results of effluent and receiving water characterizations performed at Aquatec as part of the toxicity test are presented in Table 1. Water quality parameters measured during the toxicity test are presented in Table 2. Measured temperatures during the test were within the range of 24°C to 26°C. The percent survival data and number of offspring produced during the exposure for the toxicity test are presented in Table 3.

By day six, at least 60 percent of the reference control (receiving water) organisms had produced at least three broods with a minimum of 15 young per surviving female.

Acute toxicity was not demonstrated during this evaluation. The 48-hour LC50 value was >100% effluent. The A-NOEC was 100% effluent. Chronic toxicity was not demonstrated during this evaluation. The C-NOEC value was 100% effluent. And the C-LOEC was >100% effluent.

4.2 Reference Toxicant Test

The most recent standard reference toxicant (SRT) test, conducted in June 2006, had a resulting 48-hour LC50 1.782 g NaCl/L and a chronic IC25 of 0.155 g NaCl/L. These values were within the Control Chart limits generated for SRT tests with *Ceriodaphnia dubia* in our laboratory.

5.0 Qualifiers

5.1 Qualifiers and Special Conditions

Qualifiers or special conditions were not applicable to the reported toxicity test.

References

American Public Health Association, American Water Works Association, and Water Pollution Control Federation (APHA). 1989. Standard Methods for the Examination of Water and Wastewater. 17th Edition

U.S. Environmental Protection Agency, 2002. 4th Edition. *Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*. EPA-821-R-02-013.

Table 1. Results of the characterization of the General Electric Pittsfield Plant effluent and receiving water samples.

Parameter	OUTFALL COMPOSITE A7407C	OUTFALL COMPOSITE A7409C	OUTFALL COMPOSITE A7411C
Temperature	25.4	25.7	25.3
pH	7.8	7.6	7.7
Alkalinity (as CaCO ₃), mg/L	340	256	232
Hardness (as CaCO ₃), mg/L	374	280	242
Dissolved oxygen, mg/L	8.9	8.5	8.6
Specific conductivity, uS/cm	1361	1022	904
Total residual chlorine (mg/L)	ND	ND	ND

Parameter	Housatonic River A7406R	Housatonic River A7408R	Housatonic River A7410R
Temperature	24.9	25.3	25.6
pH	7.5	7.4	7.2
Alkalinity (as CaCO ₃), mg/L	88	96	64
Hardness (as CaCO ₃), mg/L	102	114	70
Dissolved oxygen, mg/L	8.7	8.7	8.7
Specific conductivity, uS/cm	259	289	172
Total residual chlorine (mg/L)	ND	ND	ND

Note: Characterizations reflect conditions of sample after preparation for the toxicity test. ND = not detected

Table 2. Water quality measurements (ranges) recorded during the chronic toxicity test with *Ceriodaphnia dubia* exposed to General Electric Pittsfield Plant effluent, July 11 - 17, 2006.

Test Concentration (% effluent)	pH	Dissolved Oxygen (mg/L)	Temperature (°C)	Conductivity (umhos/cm)
Dechl. Control	7.2 - 7.8	7.5 - 8.4	24.3 - 25.6	308-329
Lab Control	7.1 - 7.6	7.6 - 8.4	24.4 - 25.1	203 - 218
Reference Control	7.2- 7.7	7.6 - 9.1	24.5 - 25.6	172 - 289
6.25%	7.3 - 7.8	7.6 - 9.1	24.3 - 25.4	216 - 337
12.5%	7.4 - 7.9	7.6 - 9.1	24.2 - 25.4	269 - 411
25%	7.5 - 8.1	7.5 - 8.9	24.4 - 25.5	361 - 547
50%	7.6 - 8.2	7.6 - 8.9	24.3 - 25.7	544 - 829
75%	7.6 - 8.3	7.6 - 8.9	24.4 - 26.0	716 - 1102
100%	7.6 - 8.3	7.6 - 8.9	24.4 - 26.0	876 - 1363

Dechl. Control = laboratory water with sodium thiosulfate added (dechlorination control).

Lab Control = a mix of natural river water and moderately hard water.

Dilution Control = receiving water (Housatonic River).

Table 3 a. Summary of percent survival data for the short-term chronic toxicity test with *Ceriodaphnia dubia* exposed to General Electric Pittsfield Plant effluent, July 11 - 17, 2006.

Test Concentration (% effluent)	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Dechl. Control	100	100	100	100	100	100	-
Lab Control	100	100	100	100	100	100	-
Reference Control	100	100	100	100	100	100	-
6.25%	100	100	100	100	100	100	-
12.5%	100	100	100	100	100	100	-
25%	100	100	100	100	100	100	-
50%	100	100	100	100	100	100	-
75%	100	100	100	100	100	100	-
100%	100	100	100	100	100	90	-

Dechl. Control = laboratory water with sodium thiosulfate added (dechlorination control).

Lab Control = a mix of natural river water and moderately hard water.

Dilution Control = receiving water (Housatonic River), the statistical control

Table 3 b. Summary of reproduction data (number of offspring produced) for the short-term chronic toxicity test with *Ceriodaphnia dubia* exposed to General Electric Pittsfield Plant effluent, July 11 - 17, 2006.

Test Concentration (% effluent)	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Avg. per Female
Dechl. Control	0	0	49	78	1	134	-	26.2
Lab Control	0	0	55	83	2	143	-	28.3
Reference Control	0	0	48	70	0	136	-	25.4
6.25%	0	0	50	75	1	142	-	26.8
12.5%	0	0	53	71	1	173	-	29.8
25%	0	0	47	88	0	154	-	28.9
50%	0	0	56	73	0	129	-	25.8
75%	0	0	62	78	1	178	-	31.9
100%	0	0	59	88	0	162	-	30.9

Dechl. Control = laboratory water with sodium thiosulfate added (dechlorination control).

Lab Control = a mix of natural river water and moderately hard water.

Dilution Control = receiving water (Housatonic River), the statistical control

Appendix 1 Chain-of-Custody Documentation

Aquatec Biological Sciences

Chain-of-Custody Record

273 Commerce Street
 Williston, VT 05495
 TEL: (802) 860-1638
 FAX: (802) 658-3189

COMPANY INFORMATION		COMPANY'S PROJECT INFORMATION				SHIPPING INFORMATION		VOLUME/CONTAINER TYPE/ PRESERVATIVE									
Name: General Electric Company Address: O'Brien & Gere 1000 East Street, Gate 64 City/State/Zip: Pittsfield, MA 01201 Telephone: (413) 494-6709 Facsimile: _____ Contact Name: Mark Wasniewsky		Project Name: GE PITTSFIELD Outfall Composite - RENEWAL SAMPLE Project Number: 06004 Sampler Name(s): <u>Mark Wasniewsky</u> NPDES Permit #: MA0003891 Ship these samples on Friday. Quote #: 10/05 Client Code: GEPITTS				Carrier: _____ Airbill Number: _____ Date Shipped: <u>7-14-06</u> Hand Delivered: <input type="checkbox"/> Yes <input type="checkbox"/> No		4°C	4°C	4°C	4°C	4°C	4°C	4°C	4°C	4°C	4°C
								Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	
								1 gal	1/2 gal	1 L	40 ml	250 ml	0.5 L				
SAMPLE IDENTIFICATION		COLLECTION		MATRIX		ANALYSIS		NUMBER OF CONTAINERS									
Outfall Composite		DATE		TIME		MATRIX		NUMBER OF CONTAINERS									
A7400C		7-14-06		11:00 AM		Effluent		2									
Outfall Composite		DATE		TIME		MATRIX		ANALYSIS									
A7400C		7-14-06		11:00 AM		Effluent		Ceriodaphnia dubia chronic survival and reproduction (EPA Method 1002.0) - Renewal 2									
Housatonic River		DATE		TIME		MATRIX		ANALYSIS									
A7400R		7-14-06		8:15 AM		Receiving		Total Residual Chlorine									
Housatonic River		DATE		TIME		MATRIX		ANALYSIS									
A7400R		7-14-06		8:15 AM		Receiving		Dilution Water									
		DATE		TIME		MATRIX		ANALYSIS									
								Total Residual Chlorine									
		DATE		TIME		MATRIX		ANALYSIS									
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		DATE		TIME		MATRIX		ANALYSIS									
		DATE		TIME		MATRIX		ANALYSIS									

Appendix 2

Summary of Test Conditions

Appendix 3
U.S. EPA Region 1 Toxicity Test Summary and
Statistical Flow Chart

TOXICITY TEST SUMMARY SHEET

Facility Name: General Electric Co. Test Start Date: July 11, 2006
 NPDES Permit Number: MA0003891 Pipe Number: 001

Test Type	Test species	Sample Type	Sample Method
Modified (chronic reporting acute values)	<i>Ceriodaphnia dubia</i>	Unchlorinated	Composite

Dilution water: Receiving waters collected at a point upstream of or away from the discharge, free from toxicity or other sources of contamination (Receiving water name: Housatonic River)

Effluent sampling dates: July 10, 12, and 14, 2006

Effluent concentrations tested (%): 100, 75, 50, 25, 12.5, 6.25
 • (permit limit concentration): N/A

Was effluent salinity adjusted? No

Reference Toxicant Test Date: June 13, 2006

PERMIT LIMITS AND TEST RESULTS

MEAN CONTROL SURVIVAL CRITERIA: >80%
 MEAN CONTROL REPRODUCTION CRITERIA: average of 15 or more neonates produced per female and 60% of surviving females produced three broods.

TOXICITY TEST MEAN CONTROL SURVIVAL: 100%
 TOXICITY TEST MEAN CONTROL REPRODUCTION: Average of 25.4 neonates per female and 100% produced three broods.

LIMITS		RESULTS	
LC50	N/A	48-hr LC50:	>100%
		Upper value:	N/A
		Lower value:	N/A
		Data analysis method:	Fisher / Steel
A-NOEC	N/A	A-NOEC	100%
C-NOEC	N/A	C-NOEC	100%
		LOEC	>100%

N/A – Not Applicable

STATISTICAL ANALYSIS OF CERIODAPHNIA SURVIVAL AND REPRODUCTION TEST

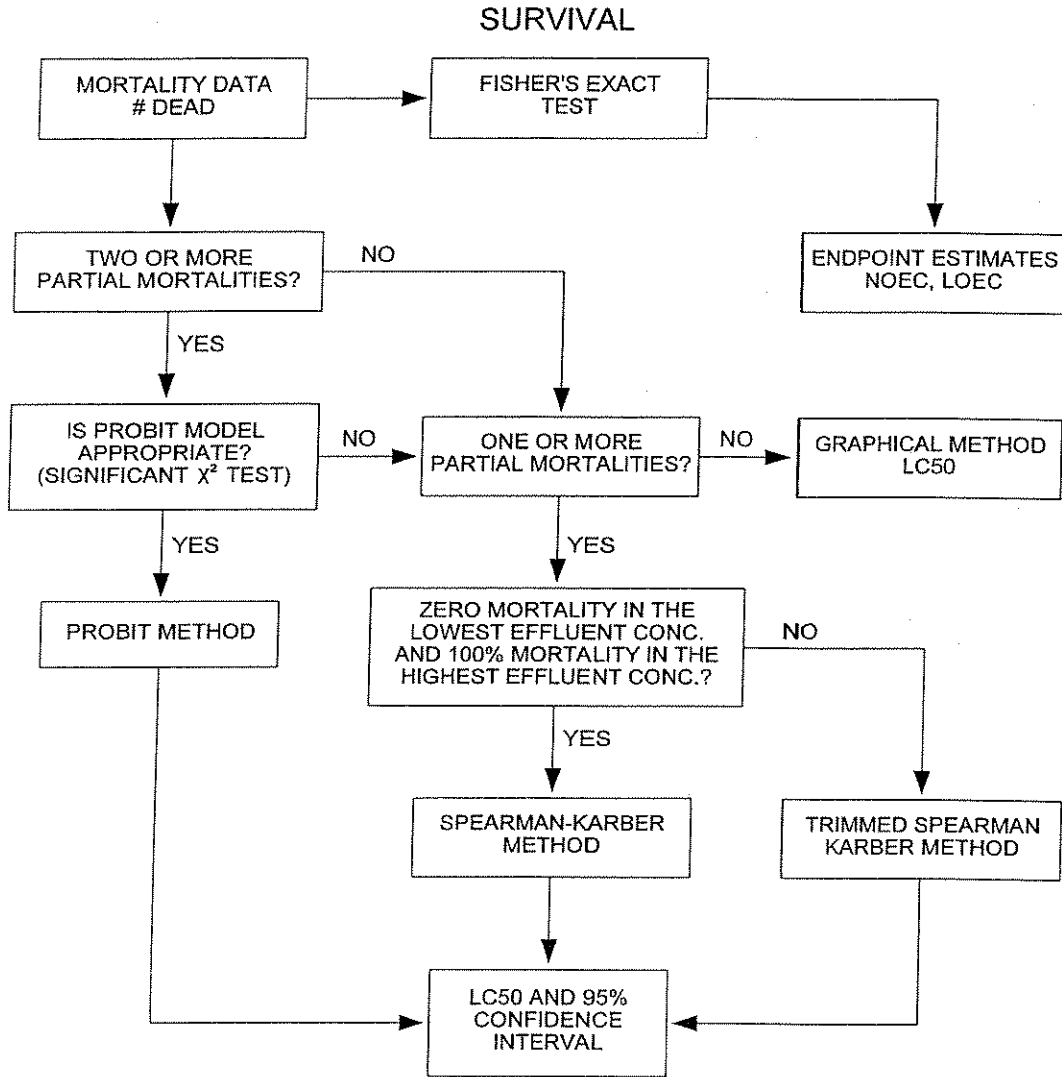


Figure 4. Flowchart for statistical analysis of the daphnid, *Ceriodaphnia dubia*, survival data.

STATISTICAL ANALYSIS OF CERIODAPHNIA SURVIVAL AND REPRODUCTION TEST

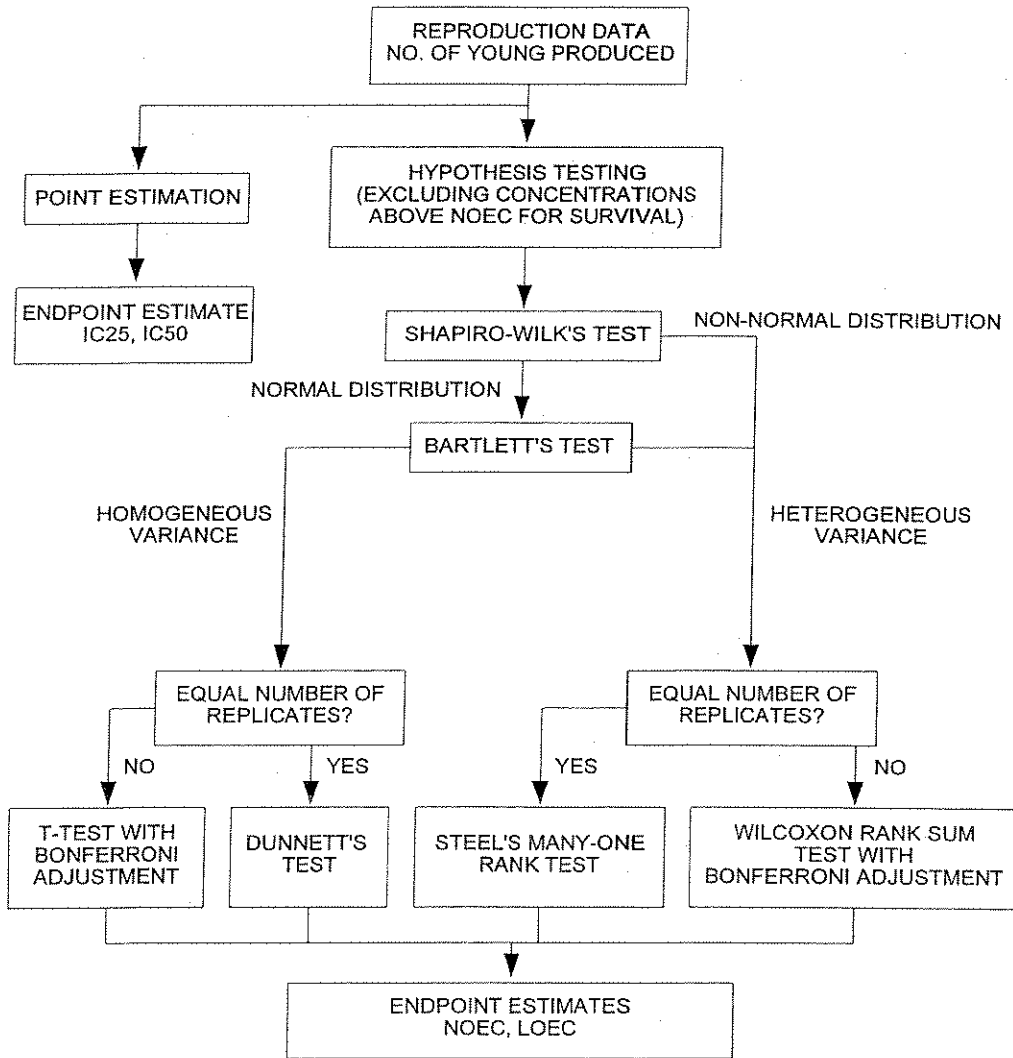


Figure 6.

Flowchart for the statistical analysis of the daphnid, *Ceriodaphnia dubia*, reproduction data.

Appendix 4
Bench Data, *Ceriodaphnia dubia* Chronic Toxicity Test

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 | Aquatec Biological Sciences, Inc. |
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Test Date: 7/11/06
 Sample Date: 7/10/06
 Species: Ceriodaphnia dubia
 Test Type: Chronic

Test Number: 48289
 Test Material: Effluent - POTW %
 Source: MA0003891
 General Electric Company
 Pittsfield, MA

=====
 SUMMARY
 =====

End Point	Day	Transformation	Conc	#Reps	Mean	StDev	% Surv
Proportion Alive	2	No transformation	0.000 B	10	1.00	0.000	
			X 0.000 D	10	1.00	0.000	
			X 6.250 D	10	1.00	0.000	
			X 12.500 D	10	1.00	0.000	
			X 25.000 D	10	1.00	0.000	
			X 50.000 D	10	1.00	0.000	
			X 75.000 D	10	1.00	0.000	
			X 100.000 D	10	1.00	0.000	
Proportion Alive	7	No transformation	0.000 B	10	1.00	0.000	
			X 0.000 D	10	1.00	0.000	
			X 6.250 D	10	1.00	0.000	
			X 12.500 D	10	1.00	0.000	
			X 25.000 D	10	1.00	0.000	
			X 50.000 D	10	1.00	0.000	
			X 75.000 D	10	1.00	0.000	
			X 100.000 D	10	.90	.316	
Reproduction		No transformation	0.000 B	10	28.30	3.401	
			X 0.000 D	10	25.40	5.400	
			X 6.250 D	10	26.80	4.686	
			X 12.500 D	10	29.80	4.803	
			X 25.000 D	10	28.90	2.923	
			X 50.000 D	10	25.80	7.208	
			X 75.000 D	10	31.90	3.414	
			X 100.000 D	10	30.90	5.109	

X = indicates concentrations used in calculations

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 - HYPOTHESIS TEST -
 =====

End Point	Day	Transformation/Analysis	NOEC	LOEC	TU	MSE	MSD
Proportion Alive	2	No transformation					
		Fisher Exact	>100.000	>100.000	< 1.00		
Proportion Alive	7	No transformation					
		Fisher Exact	>100.000	>100.000	< 1.00		
Reproduction		No transformation					
		Steel many-one rank test	>100.000	>100.000	< 1.00	24.633	5.213

Water Flea

Lab	Species	Test Date	Test Material	Permit	Protocol	Test Number
ABS	CD	7/11/2006	EFF1 (%)	MA0003891	EPAF 94	48289

Statistics Parameters

PROPORTION

End Point:	PA Proportion Alive		
Analysis:	Fisher Exact	Auto growth select	1 control
Transform:	No transformation		
Tail:	One-tailed, decreasing		
Constant:	-.01	Variance:	.01
Root:	0.00	Alpha Normality:	.01
		NOEC:	.05

EC/LC Method: F (P,S,G,L,N) Superdunnet: 4000

GROWTH

End Point:	GR Reproduction		
Analysis:	EPA Flowchart	Auto growth select	1 control
Transform:	No transformation		
Tail:	One-tailed, decreasing		
Constant:	-.01	Variance:	.01
Root:	0.00	Alpha Normality:	.01
		NOEC:	.05

Calculate IC? Y (Y,N) IC resamples: 120

Errors/Warnings

Type Number

EC/LC	71	No linear interpolation estimate can be calculated - none of the group response means < 100-p % of the control response me
IC	71	No linear interpolation estimate can be calculated - none of the group response means < 100-p % of the control response me
PROP	0	Analysis completed with no errors
GROW	0	Analysis completed with no errors

7/27/06

TOXIS ANALYSIS SUMMARY

Ceriodaphnia		Proportion Alive				Day 7
Lab	Species	Date	Test Material	Permit	Protocol	Test Number
ABS	CD	7/11/200	EFF1 (%)	MA0003891	EPAF 94	48289

Fisher Exact	Auto growth select	1 control	
Transformation	Prop. Conc	Alive	P
No transformation			
	0.00B	1.00	
X	0.00D	1.00	
X	6.25D	1.00	1.000
X	12.50D	1.00	1.000
X	25.00D	1.00	1.000
X	50.00D	1.00	1.000
X	75.00D	1.00	1.000
X	100.00D	.90	.500

NOEC	LOEC	TU	Alpha	Tail	Based on
>100	>100	<1	.05	One-sided	Fisher Exact

7/27/06

TOXIS ANALYSIS SUMMARY

Ceriodaphnia		Reproduction				
Lab	Species	Date	Test Material	Permit	Protocol	Test Number
ABS	CD	7/11/200	EFF1 (%)	MA0003891	EPAF 94	48289

EPA Flowchart Auto growth select 1 control

	Conc	Mean	SD	N	T	Sum of Ranks
Data transformation: No transformation						
	0.00B	28.30	3.401	10		
X	0.00D	25.40	5.400	10		
X	6.25D	26.80	4.686	10	-.631	113.500
X	12.50D	29.80	4.803	10	-1.982	128.500
X	25.00D	28.90	2.923	10	-1.577	126.500
X	50.00D	25.80	7.208	10	-.180	110.500
X	75.00D	31.90	3.414	10	-2.928	141.500
X	100.00D	30.90	5.109	10	-2.478	136.500

NOEC	LOEC	TU	Alpha	Tail	Based on	Critical Sum of Ran
>100	>100	<1	.05	One-sided	Steel	74

Dunnnett Test:	MSE	MSD % Reduction from Control		Critical T
	24.633	20.5226		2.3485
Kolmogorov Test for Normality:	Alpha	D	Cutoff D	Normal?
	.01	.136609	.124	No
Bartlett Test for Equal Variance:	Alpha	B	P(B)	Equal Var?
	.01	8.7662	.18715	Yes

Aquatec Biological Sciences, Inc.

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WATER FLEA TEST DATA

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Test Number: 48289 (x) Chronic () Acute hours
 Test Date: 11-Jul-06
 Source: MA0003891 Test Material: EPF1 (%)

Conc	Rep	Cont. No. Sex	Start	Daily Survival						Prop Alive	Total Young	Max Young	
				1	2	3	4	5	6				End
0.00 B	1	F	1	1						1	1.00	23	12
0.00 B	2	F	1	1						1	1.00	30	16
0.00 B	3	F	1	1						1	1.00	30	15
0.00 B	4	F	1	1						1	1.00	35	16
0.00 B	5	F	1	1						1	1.00	29	14
0.00 B	6	F	1	1						1	1.00	30	17
0.00 B	7	F	1	1						1	1.00	27	13
0.00 B	8	F	1	1						1	1.00	28	15
0.00 B	9	F	1	1						1	1.00	24	13
0.00 B	10	F	1	1						1	1.00	27	12
0.00 D	1	F	1	1						1	1.00	32	17
0.00 D	2	F	1	1						1	1.00	16	12
0.00 D	3	F	1	1						1	1.00	27	16
0.00 D	4	F	1	1						1	1.00	18	10
0.00 D	5	F	1	1						1	1.00	30	14
0.00 D	6	F	1	1						1	1.00	32	17
0.00 D	7	F	1	1						1	1.00	24	11
0.00 D	8	F	1	1						1	1.00	26	15
0.00 D	9	F	1	1						1	1.00	23	10
0.00 D	10	F	1	1						1	1.00	26	14
6.25 D	1	F	1	1						1	1.00	29	16
6.25 D	2	F	1	1						1	1.00	24	14
6.25 D	3	F	1	1						1	1.00	28	15
6.25 D	4	F	1	1						1	1.00	25	13
6.25 D	5	F	1	1						1	1.00	28	15
6.25 D	6	F	1	1						1	1.00	31	17
6.25 D	7	F	1	1						1	1.00	15	10
6.25 D	8	F	1	1						1	1.00	30	16
6.25 D	9	F	1	1						1	1.00	30	14
6.25 D	10	F	1	1						1	1.00	28	12
12.50 D	1	F	1	1						1	1.00	30	17
12.50 D	2	F	1	1						1	1.00	30	17
12.50 D	3	F	1	1						1	1.00	37	23
12.50 D	4	F	1	1						1	1.00	30	16
12.50 D	5	F	1	1						1	1.00	29	17
12.50 D	6	F	1	1						1	1.00	27	18
12.50 D	7	F	1	1						1	1.00	27	13
12.50 D	8	F	1	1						1	1.00	36	18
12.50 D	9	F	1	1						1	1.00	32	17
12.50 D	10	F	1	1						1	1.00	20	17
25.00 D	1	F	1	1						1	1.00	31	16
25.00 D	2	F	1	1						1	1.00	27	16
25.00 D	3	F	1	1						1	1.00	33	18
25.00 D	4	F	1	1						1	1.00	29	14
25.00 D	5	F	1	1						1	1.00	25	12
25.00 D	6	F	1	1						1	1.00	27	16
25.00 D	7	F	1	1						1	1.00	27	16

Aquatec Biological Sciences, Inc.

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WATER FLEA TEST DATA

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Test Number: 48289 (x) Chronic () Acute hours
 Test Date: 11-Jul-06
 Source: MA0003891 Test Material: EFF1 (%)

Conc	Rep	Cont. No. Sex	Start	Daily Survival						Prop Alive	Total Young	Max Young
				1	2	3	4	5	6 End			
25.00 D	8	F	1	1					1	1.00	26	14
25.00 D	9	F	1	1					1	1.00	33	14
25.00 D	10	F	1	1					1	1.00	31	18
50.00 D	1	F	1	1					1	1.00	29	16
50.00 D	2	F	1	1					1	1.00	13	8
50.00 D	3	F	1	1					1	1.00	35	19
50.00 D	4	F	1	1					1	1.00	27	16
50.00 D	5	F	1	1					1	1.00	31	18
50.00 D	6	F	1	1					1	1.00	30	12
50.00 D	7	F	1	1					1	1.00	29	14
50.00 D	8	F	1	1					1	1.00	19	7
50.00 D	9	F	1	1					1	1.00	16	12
50.00 D	10	F	1	1					1	1.00	29	15
75.00 D	1	F	1	1					1	1.00	33	20
75.00 D	2	F	1	1					1	1.00	25	16
75.00 D	3	F	1	1					1	1.00	31	19
75.00 D	4	F	1	1					1	1.00	34	16
75.00 D	5	F	1	1					1	1.00	34	20
75.00 D	6	F	1	1					1	1.00	33	17
75.00 D	7	F	1	1					1	1.00	28	16
75.00 D	8	F	1	1					1	1.00	35	17
75.00 D	9	F	1	1					1	1.00	36	20
75.00 D	10	F	1	1					1	1.00	30	17
100.00 D	1	F	1	1					1	1.00	29	15
100.00 D	2	F	1	1					1	1.00	29	18
100.00 D	3	F	1	1					1	1.00	33	17
100.00 D	4	F	1	1					1	1.00	36	19
100.00 D	5	F	1	1					1	1.00	34	19
100.00 D	6	F	0	1					0	0.00	18	8
100.00 D	7	F	1	1					1	1.00	31	16
100.00 D	8	F	1	1					1	1.00	31	19
100.00 D	9	F	1	1					1	1.00	35	18
100.00 D	10	F	1	1					1	1.00	33	18

QC/RS
 7/27/06
 J 7/28/06

Aquatec Biological Sciences, Inc.

WATER FLEA DAILY REPORT

TEST NUMBER: 48289 (x) Chronic () Acute hours
 TEST DATE: 11-Jul-06
 SOURCE: MA0003891 TEST MATERIAL: EFF1 (%)

Conc	Ctrl	Rep	Cont. #	Daily Reproduction										
				1	2	3	4	5	6	7	8	9	10	
0.00	B	1				5	6	0	12					
0.00	B	2				5	9	0	16					
0.00	B	3				6	8	1	15					
0.00	B	4				7	12	0	16					
0.00	B	5				5	10	0	14					
0.00	B	6				4	9	0	17					
0.00	B	7				5	8	1	13					
0.00	B	8				6	7	0	15					
0.00	B	9				5	6	0	13					
0.00	B	10				7	8	0	12					
0.00	D	1				5	10	0	17					
0.00	D	2				4	0	0	12					
0.00	D	3				5	6	0	16					
0.00	D	4				4	4	0	10					
0.00	D	5				6	10	0	14					
0.00	D	6				4	11	0	17					
0.00	D	7				5	8	0	11					
0.00	D	8				5	6	0	15					
0.00	D	9				4	9	0	10					
0.00	D	10				6	6	0	14					
6.25	D	1				5	8	0	16					
6.25	D	2				4	6	0	14					
6.25	D	3				4	9	0	15					
6.25	D	4				5	7	0	13					
6.25	D	5				6	6	1	15					
6.25	D	6				6	8	0	17					
6.25	D	7				5	0	0	10					
6.25	D	8				6	8	0	16					
6.25	D	9				5	11	0	14					
6.25	D	10				4	12	0	12					
12.50	D	1				4	9	0	17					
12.50	D	2				5	8	0	17					
12.50	D	3				7	7	0	23					
12.50	D	4				6	8	0	16					
12.50	D	5				6	6	0	17					
12.50	D	6				5	4	0	18					
12.50	D	7				4	10	0	13					
12.50	D	8				6	11	1	18					
12.50	D	9				7	8	0	17					
12.50	D	10				3	0	0	17					
25.00	D	1				4	11	0	16					
25.00	D	2				3	8	0	16					
25.00	D	3				6	9	0	18					
25.00	D	4				7	8	0	14					
25.00	D	5				4	9	0	12					
25.00	D	6				4	7	0	16					
25.00	D	7				3	8	0	16					

Aquatec Biological Sciences, Inc.

WATER FLEA DAILY REPORT

TEST NUMBER: 48289 (x) Chronic () Acute hours
 TEST DATE: 11-Jul-06
 SOURCE: MA0003891 TEST MATERIAL: EFF1 (%)

Conc	Ctrl	Rep	Cont. #	Daily Reproduction											
				1	2	3	4	5	6	7	8	9	10		
25.00	D	8				5	7	0	14						
25.00	D	9				7	12	0	14						
25.00	D	10				4	9	0	18						
50.00	D	1				7	6	0	16						
50.00	D	2				5	8	0	0						
50.00	D	3				6	10	0	19						
50.00	D	4				5	6	0	16						
50.00	D	5				5	8	0	18						
50.00	D	6				7	11	0	12						
50.00	D	7				7	8	0	14						
50.00	D	8				5	7	0	7						
50.00	D	9				4	0	0	12						
50.00	D	10				5	9	0	15						
75.00	D	1				5	8	0	20						
75.00	D	2				4	5	0	16						
75.00	D	3				4	7	1	19						
75.00	D	4				8	10	0	16						
75.00	D	5				7	7	0	20						
75.00	D	6				8	8	0	17						
75.00	D	7				5	7	0	16						
75.00	D	8				7	11	0	17						
75.00	D	9				8	8	0	20						
75.00	D	10				6	7	0	17						
100.00	D	1				5	9	0	15						
100.00	D	2				4	7	0	18						
100.00	D	3				6	10	0	17						
100.00	D	4				5	12	0	19						
100.00	D	5				6	9	0	19						
100.00	D	6				7	8	0	3						
100.00	D	7				6	9	0	16						
100.00	D	8				5	7	0	19						
100.00	D	9				8	9	0	18						
100.00	D	10				7	8	0	18						

QC ✓
 KS 7/27/06
 J 7/28/06

Ceriodaphnia dubia Survival and Reproduction Data (Page 1 of 4)

Client: CAS / GE PITTSFIELD

Test #: 48289

SDG: 9664

Test Description: *Ceriodaphnia dubia* acute / chronic toxicity tests

Effluent (%)	Repl 1	Repl 2	Repl 3	Repl 4	Repl 5	Repl 6	Repl 7	Repl 8	Repl 9	Repl 10	Remarks
Lab Ctrl	0	0	0	0	0	0	0	0	0	0	Day 0
Rec. Ctrl.	0	0	0	0	0	0	0	0	0	0	Sample: 32270
6.25	0	0	0	0	0	0	0	0	0	0	Fed Sel / YCT ✓
12.5	0	0	0	0	0	0	0	0	0	0	Sel Lot #: 71106 Sel
25	0	0	0	0	0	0	0	0	0	0	YCT Lot #: 62206 YC
50	0	0	0	0	0	0	0	0	0	0	Date/time/lnit.
75	0	0	0	0	0	0	0	0	0	0	KS 7-11-06
100	0	0	0	0	0	0	0	0	0	0	12:30

Lab Ctrl	○	○	○	○	○	○	○	○	○	○	Day 1
Rec. Ctrl.	○	○	○	○	○	○	○	○	○	○	Sample: 32270
6.25	○	○	○	○	○	○	○	○	○	○	Fed Sel / YCT ✓
12.5	○	○	○	○	○	○	○	○	○	○	Sel Lot #: above
25	○	○	○	○	○	○	○	○	○	○	YCT Lot #: above
50	○	○	○	○	○	○	○	○	○	○	Date/time/lnit.
75	○	○	○	○	○	○	○	○	○	○	KS 7-12-06
100	○	○	○	○	○	○	○	○	○	○	15:45

Lab Ctrl	○	○	○	○	○	○	○	○	○	○	Day 2
Rec. Ctrl.	○	○	○	○	○	○	○	○	○	○	Sample: 32284
6.25	○	○	○	○	○	○	○	○	○	○	Fed Sel / YCT ✓
12.5	○	○	○	○	○	○	○	○	○	○	Sel Lot #: above
25	○	○	○	○	○	○	○	○	○	○	YCT Lot #: above
50	○	○	○	○	○	○	○	○	○	○	Date/time/lnit.
75	○	○	○	○	○	○	○	○	○	○	KS 7-13-06
100	○	○	○	○	○	○	○	○	○	○	12:25

0=original organism surviving, no young; D=original organism dead; #=# young released;
 *=lab-induced mortality. Receiving water is dilution water; Lab water is additional control.

Aquatec Biological Sciences Williston, Vermont

Reviewed by: JS Date: 7/20/06

GE TOX FORMS Cd

Ceriodaphnia dubia Survival and Reproduction Data (Page 2 of 4)

Client: CAS / GE PITTSFIELD Test #: 48289 SDG: 9664
 Test Description: *Ceriodaphnia dubia* acute / chronic toxicity tests

Effluent (%)	Repl 1	Repl 2	Repl 3	Repl 4	Repl 5	Repl 6	Repl 7	Repl 8	Repl 9	Repl 10	Remarks
Lab Ctrl	5	5	6	7	5	4	5	6	5	7	Day 3
Rec. Ctrl.	5 ⁴ 5 ⁶	4 ⁰ 4 ⁶	5	4	6	4	5	5	4	6	Sample: 32284
6.25	5	4	4	5	6	6	5	6	5	4	Fed Sel / YCT ✓
12.5	4	5	7	6	6	5	4	6	7	3	Sel Lot #: 71106 Sel
25	4	3	6	7	4	4	3	5	7	4	YCT Lot #: 62206 ⁴ C
50	7	5	6	5	5	7	7	5	4	5	Date/time/Init.
75	5	4	4	8	7	8	5	7	8	6	7-14-06
100	5	4	6	5	6	7	6	5	8	7	18:00 JG

Lab Ctrl	6	9	8	12	10	9	8	7	6	8	Day 4
Rec. Ctrl.	10	0	6	4	10	11	8	6	9	6	Sample: 32341
6.25	8	6	9	7	6	8	0	8	11	12	Fed Sel / YCT ✓
12.5	9	8	7	8	6	4	10	11	8	0	Sel Lot #: SAME
25	11	8	9	8	9	7	8	7	12	9	YCT Lot #: SAME
50	6	8	10	6	8	11	8	7	0	9	Date/time/Init. KK 7-15-06 14:25
75	8	5	7	10	7	8	7	11	8	7	
100	9	7	10	12	9	8	9	7	9	8	

Lab Ctrl	0	0	1	0	0	0	1	0	0	0	Day 5
Rec. Ctrl.	0	0	0	0	0	0	0	0	0	0	Sample: 32341
6.25	0	0	0	0	1	0	0	0	0	0	Fed Sel / YCT ✓
12.5	0	0	0	0	0	0	0	1	0	0	Sel Lot #: above
25	0	0	0	0	0	0	0	0	0	0	YCT Lot #: above
50	0	0	0	0	0	0	0	0	0	0	Date/time/Init.
75	0	0	1	0	0	0	0	0	0	0	KS 7-16-06
100	0	0	0	0	0	0	0	0	0	0	14:00

⊙ may have killed Cid. by accident. KS 7-16-06

0=original organism surviving, no young; D=original organism dead; #=# young released;
 *=lab-induced mortality. Receiving water is dilution water; Lab water is additional control.

Ceriodaphnia dubia Survival and Reproduction Data (Page 3 of 4)

Client: CAS / GE PITTSFIELD

Test #: 48289

SDG: 9664

Test Description: *Ceriodaphnia dubia* acute / chronic toxicity tests

Effluent (%)	Repl 1	Repl 2	Repl 3	Repl 4	Repl 5	Repl 6	Repl 7	Repl 8	Repl 9	Repl 10	Remarks
Lab Ctrl	12	16	15	16	14	17	13	15	13	12	Day 6
Rec. Ctrl.	17	12	16	10	14	17	11	15	10	14	Sample:
6.25	16	14	15	13	15	17	10	16	14	12	Fed Sel / YCT —
12.5	17	17	23	16	17	18	13	18	17	17	Sel Lot #: —
25	16	16	18	14	12	16	16	14	14	18	YCT Lot #: —
50	16	0	19	16	18	12	14	7	12	15	Date/time/Init.
75	20	16	19	16	20	17	16	17	20	17	KS 7-17-06
100	15	18	17	19	19	#D/3	16	19	18	18	11:25

Lab Ctrl											Day 7
Rec. Ctrl.											Sample:
6.25											Fed Sel / YCT
12.5											Sel Lot #:
25											YCT Lot #:
50											Date/time/Init.
75											
100											

Lab Ctrl											Day 8
Rec. Ctrl.											Sample:
6.25											Fed Sel / YCT
12.5											Sel Lot #:
25											YCT Lot #:
50											Date/time/Init.
75											
100											

0=original organism surviving, no young; D=original organism dead; #=# young released;
 *=lab-induced mortality. Receiving water is dilution water; Lab water is additional control .

Aquatec Biological Sciences Williston, Vermont

Reviewed by: J Date: 7/20/06

GE TOX FORMS Cd

Ceriodaphnia dubia Survival and Reproduction Data (Page 4 of 4)

Client: CAS / GE PITTSFIELD

Test #: 48289

SDG: 9664

Test Description: *Ceriodaphnia dubia* acute / chronic toxicity tests

Sodium thiosulfate control

Effluent (%)	Repl 1	Repl 2	Repl 3	Repl 4	Repl 5	Repl 6	Repl 7	Repl 8	Repl 9	Repl 10	Remarks
Na thio	0	0	0	0	0	0	0	0	0	0	Day 0 Fed KS 7-11-06 12:15 ✓
Na thio	0	0	0	0	0	0	0	0	0	0	Day 1 Fed KS 7-12-06 15:15 ✓
Na thio	0	0	0	0	0	0	0	0	0	0	Day 2 Fed KS 7-13-06 12:05 ✓
Na thio	4	0	5	6	4	6	6	5	7	6	Day 3 Fed JG 7-14-06 18:00 ✓
Na thio	8	0	6	10	6	10	7	12	10	9	Day 4 Fed
Na thio	0	0	0	0	0	1	0	0	0	0	Day 5 Fed 13:40 KS 7-16-06 ✓
Na thio	13	0	15	13	15	16	16	16	13	17	Day 6 Fed KS 7-17-06 11:25 ✓
Na thio											Day 7 Fed
Na thio											Day 8 Fed

0=original organism surviving, no young; D=original organism dead; #=# young released;
 *=lab-induced mortality. Receiving water is dilution water; Lab water is additional control.

Aquatec Biological Sciences Williston, Vermont

Reviewed by: J Date: 7/20/06

GE TOX FORMS Cd

Documentation of Collection of *Ceriodaphnia dubia* for Toxicity Testing

Brood Board	Date / Time Init. when cleared of Neonates	Date / Time Init. when neonates collected	No. Cups with 8 or more neonates	Fed YCT / Selenastrum (Lot #s)
7/3A	KS 7/10 12:45	-	-	✓ 62206 YC 62906 Sel
7/3B	KS 7/10 13:00	-	-	✓
7/3A	KS 7/10/06 →	16:30	2	✓
7/3B	KS 7/10/06 →	16:40	9	✓
7/3A	7-11-06 00:00 JG →		3	✓
7/3B	7-11-06 00:05 JG →		1	✓
7/3A	7-11-06 KS →	8:25	14	✓
7/3B	7-11-06 KS →	8:25	11	✓
7/3A	7-11-06 KS →	12:30	6	✓
7/3B	7-11-06 KS →	12:35	2	✓

Project Description / Test Use: GE Pitts. Cd.

cdcoll.doc

Water Chemistry Data

Client: CAS / GE PITTSFIELD Test Description: C. dubia acute / chronic toxicity* Test #: 48289 SDG: 9664

INITIAL WATER CHEMISTRY DATA

Day:	0	1	2	3	4	5	6
pH	7.6	7.4	7.4	7.4	7.3	7.2	
DO	8.2	7.8	8.3	8.3	8.4	8.2	
Temp.	24.9	24.6	24.6	24.4	24.9	24.8	
Conduct.	207	203	204	202	214	212	
pH	7.5	7.5	7.4	7.5	7.2	7.2	
DO	8.7	8.7	8.7	9.1	8.7	8.5	
Temp.	24.9	25.3	25.3	24.5	25.6	25.1	
Conduct.	259	259	289	280	272	172	
pH	7.6	7.6	7.5	7.5	7.3	7.4	
DO	8.9	8.7	8.8	9.1	8.4	8.6	
Temp.	24.8	25.4	25.4	24.3	25.3	25.0	
Conduct.	333	334	333	329	218	210	
pH	7.6	7.7	7.5	7.5	7.4	7.5	
DO	8.9	8.7	8.8	9.1	8.4	8.6	
Temp.	24.9	25.4	25.4	24.2	25.3	25.0	
Conduct.	408	408	379	397	271	269	
pH	7.7	7.7	7.6	7.6	7.5	7.6	
DO	8.9	8.7	8.8	8.9	8.4	8.6	
Temp.	25.0	25.5	25.5	24.4	25.3	25.0	
Conduct.	547	545	475	471	366	361	
pH	7.7	7.8	7.6	7.7	7.6	7.7	
DO	8.9	8.7	8.7	8.8	8.5	8.0	
Temp.	25.0	25.7	25.5	24.3	25.2	25.1	
Conduct.	829	827	659	650	548	544	
pH	7.7	7.9	7.6	7.7	7.7	7.8	
DO	8.9	8.6	8.5	8.7	8.4	8.7	
Temp.	25.3	26.0	25.6	24.4	25.2	25.3	
Conduct.	1102	1100	843	838	716	720	
pH	7.8	7.9	7.6	7.8	7.7	7.8	
DO	8.9	8.5	8.5	8.5	8.6	8.7	
Temp.	25.4	26.0	25.7	24.4	25.3	25.7	
Conduct.	1361	1363	1022	1015	904	902	
Sample #	32270	32270	32284	32284	32341		
Init./Date	KS 7/11	KS 7/12	KS 7/13	KS 7/14	KS 7/15	KS 7/16	

FINAL WATER CHEMISTRY DATA

1	2	3	4	5	6	7
7.3	7.3	7.5	7.2	7.1	7.3	
7.6	7.9	7.9	8.2	8.2	7.9	
24.9	25.1	24.9	24.7	24.8	24.9	
209	216	204	218	210	209	
7.6	7.7	7.6	7.7	7.2	7.4	
7.6	7.9	8.0	8.3	8.1	7.7	
25.3	25.1	25.1	25.0	24.9	25.2	
265	265	287	285	175	174	
7.8	7.8	7.7	7.8	7.4	7.5	
7.6	7.9	8.0	8.2	8.1	7.7	
25.2	25.0	25.2	25.0	25.0	25.2	
337	337	334	335	222	223	
7.8	7.9	7.8	7.8	7.5	7.6	
7.6	7.9	8.0	8.2	8.1	7.7	
25.1	25.1	25.2	25.0	25.0	25.2	
406	411	382	380	272	274	
7.9	8.1	7.9	7.9	7.7	7.8	
7.5	7.8	7.9	8.2	8.1	7.7	
25.2	25.3	25.2	25.0	25.1	25.2	
542	545	476	471	367	367	
8.1	8.2	8.1	8.1	8.0	8.1	
7.6	7.9	7.9	8.2	8.0	7.7	
24.6	25.3	25.1	25.0	25.1	25.3	
796	820	661	650	546	550	
8.2	8.1	8.2	8.3	8.2	8.2	
7.6	7.9	7.9	8.1	7.9	7.8	
24.8	24.6	24.9	24.7	24.4	24.4	
983	1027	855	834	724	735	
8.1	8.1	8.3	8.3	8.2	8.3	
7.6	7.9	7.9	8.2	8.0	7.8	
25.1	24.9	25.1	25.0	24.7	24.9	
1185	1237	1015	1007	876	889	
KS 7/12	KS 7/13	KS 7/14	KS 7/15	KS 7/16	KS 7/17	

Aquatic Biological Sciences Williston, Vermont

Reviewed by: J Date: 7/25/06

Water Chemistry Data

Client: CAS / GE PITTSFIELD Test Description: C. dubia acute / chronic toxicity * Test #: 48289 SDG: 9664

INITIAL WATER CHEMISTRY DATA

Day:	0	1	2	3	4	5	6
Na thio	7.7	7.0	7.5	7.7	7.4	7.2	
Control	8.3	7.9	8.3	8.2	8.4	8.2	
Temp.	25.6	24.3	24.5	24.5	25.3	25.1	
Conduct.	323	308	311	315	314	308	
Init./Date	KS 7/11	KS 7/12	KS 7/13	KS 7/14	KS 7/15	KS 7/16	

FINAL WATER CHEMISTRY DATA

1	2	3	4	5	6	7
7.4	7.3	7.4	7.5	7.6	7.8	
7.6	7.9	7.9	8.1	7.8	7.5	
25.2	24.9	24.9	25.3	24.6	25.3	
315	318	320	314	329	324	
KS 7/12	KS 7/13	KS 7/14	KS 7/15	KS 7/16	KS 7/17	

Alkalinity and Hardness Worksheet

Sample Identifier	LIMS Identifier	Sub ID Code	Sampling Date	Sample Volume	Alkalinity			Hardness							
					Initial Titrant (ml)	Final Titrant (ml)	Analysis Date	Analyst	Alkalinity	Initial Titrant (ml)	Final Titrant (ml)	Analysis Date	Analyst	Hardness	
32270	Outfall Composite -		7/11/06	25	0.9	9.4	KK	7/12/06	340.0	50	4.3	23	KK	7/11/06	374.0
32271	Housatonic River -		7/11/06	25	9.4	11.6	KK	7/12/06	88.0	50	23	28.1	KK	7/11/06	102.0
32284	Outfall Composite -		7/13/06	25	17.9	24.3	KK	7/13/06	256.0	50	15.1	29.1	KK	7/13/06	280.0
32285	Housatonic River -		7/13/06	25	24.3	26.7	KK	7/13/06	96.0	50	29.1	34.8	KK	7/13/06	114.0
32341	Outfall Composite		7/14/06	25	20.2	26	KK	7/17/06	232.0	50	8.4	20.5	KK	7/15/06	242.0
32342	Housatonic River A		7/14/06	25	26	27.6	KK	7/17/06	64.0	50	20.5	24	KK	7/15/06	70.0

J 7/20/06

Sample Preparation

Client: CAS / GE PITTSFIELD Test #: 48289 (<i>C. dubia</i>)	SDG: 9664
Test Description: <i>Ceriodaphnia dubia</i> acute / chronic toxicity tests	

Sample Identification:

Sample Description	Effluent	Receiving Water	Effluent	Receiving Water	Effluent	Receiving Water
Sample #	32270	32271	32284	32285	32341	32342

Sample Preparation:

Filtration	60 micron	60 micron	60 micron	60 micron	60 micron	60 micron
Chlorine ¹	ND	ND	ND	ND	ND	ND
Dechlorine ²	No	No	No	No	No	No
Warm (25°C)	✓	✓	✓	✓		
Prepared by (Init./date)	KS 7-11-06		KS 7-13-06		KK 7-14-06	

¹ Record vol. 0.025 N sodium thiosulfate to dechlorinate 100 mL sample or record "ND" (not detected).
² Dechlorination not required per instructions from client.

Daily Dilution Plan for: *Ceriodaphnia dubia* chronic toxicity test

Concentration (%)	Volume Effluent (mL)	Volume Diluent (mL)	Total Volume (mL)
Lab Water	0	300	300
(Additional Control)	0	300	300
Na thiosulfate control			
Receiving water (Dilution Water)	0	300	300
6.25	18.8	281.2	300
12.5	37.5	262.5	300
25	75	225	300
50	150	150	300
75	225	75	300
100	300	0	300
Total Volume	806.3	1893.7	

Comments:

Collect alkalinity and hardness samples on each new effluent and receiving water sample.

Total Residual Chlorine Analysis

Client GE Pittsfield, MA	SDG 9664
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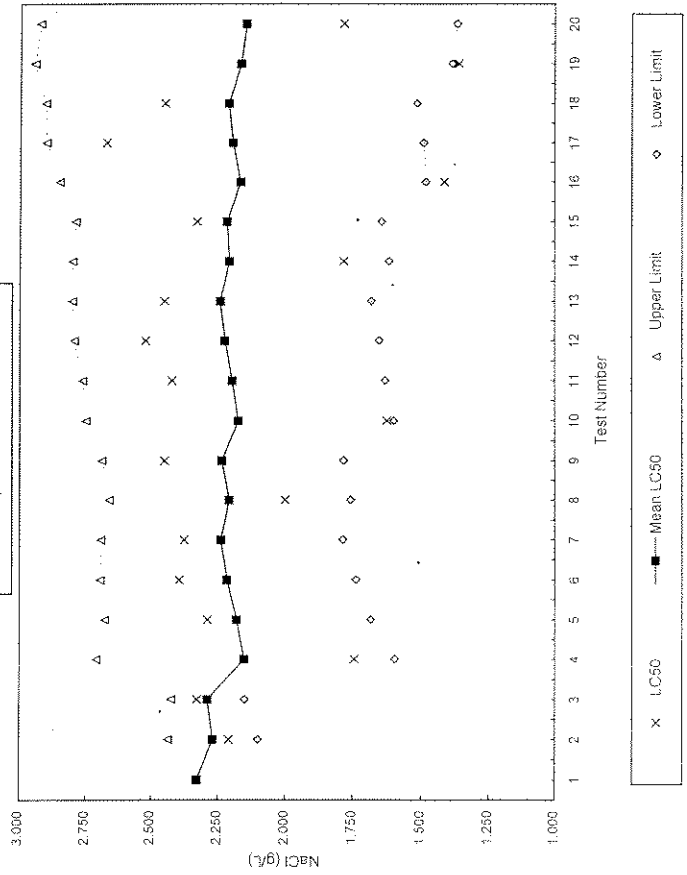
Sample #	Sample ID	Collection Date / Time	Analysis Date / Time / Analyst	Result (TRC mg/L)	Method
32270	Outfall Composite A7407C	7/10/06, 11:00	7/11/06, 12:40 JWW	<0.1	DPD Colorimetric
32271	Housatonic River A7406R	7/10/06, 08:15	7/11/06, 12:40 JWW	<0.1	DPD Colorimetric

Appendix 5
Standard Reference Toxicant Test Control Chart

Ceriodaphnia dubia
Reference Control Chart for NaCl Acute Toxicity

Test Number	Test Date	LC50 (g/L)	Mean LC50	Calculated limits	Organism Source
				Upper Lower	
1	11/01/04	2.328	2.33		
2	12/07/04	2.209	2.27	2.44	Aquatec Biological Sciences
3	01/04/05	2.328	2.29	2.43	Aquatec Biological Sciences
4	02/03/05	1.744	2.15	2.71	Aquatec Biological Sciences
5	3/2/2005	2.289	2.18	2.68	Aquatec Biological Sciences
6	4/1/2005	2.395	2.22	2.69	Aquatec Biological Sciences
7	5/3/2005	2.375	2.24	2.69	Aquatec Biological Sciences
8	6/2/2005	2.000	2.21	2.66	Aquatec Biological Sciences
9	7/5/2005	2.450	2.24	2.69	Aquatec Biological Sciences
10	8/2/2005	1.625	2.17	2.75	Aquatec Biological Sciences
11	9/6/2005	2.422	2.20	2.76	Aquatec Biological Sciences
12	10/7/2005	2.522	2.22	2.79	Aquatec Biological Sciences
13	11/8/2005	2.450	2.24	2.80	Aquatec Biological Sciences
14	12/6/2005	2.328	2.21	2.80	Aquatec Biological Sciences
15	1/3/2006	1.414	2.17	2.85	Aquatec Biological Sciences
16	2/2/2006	2.672	2.20	2.90	Aquatec Biological Sciences
17	3/2/2006	2.450	2.21	2.91	Aquatec Biological Sciences
18	4/18/2006	1.361	2.17	2.95	Aquatec Biological Sciences
19	5/2/2006	1.782	2.15	2.93	Aquatec Biological Sciences
20	6/13/2006	1.782	2.15	2.93	Aquatec Biological Sciences

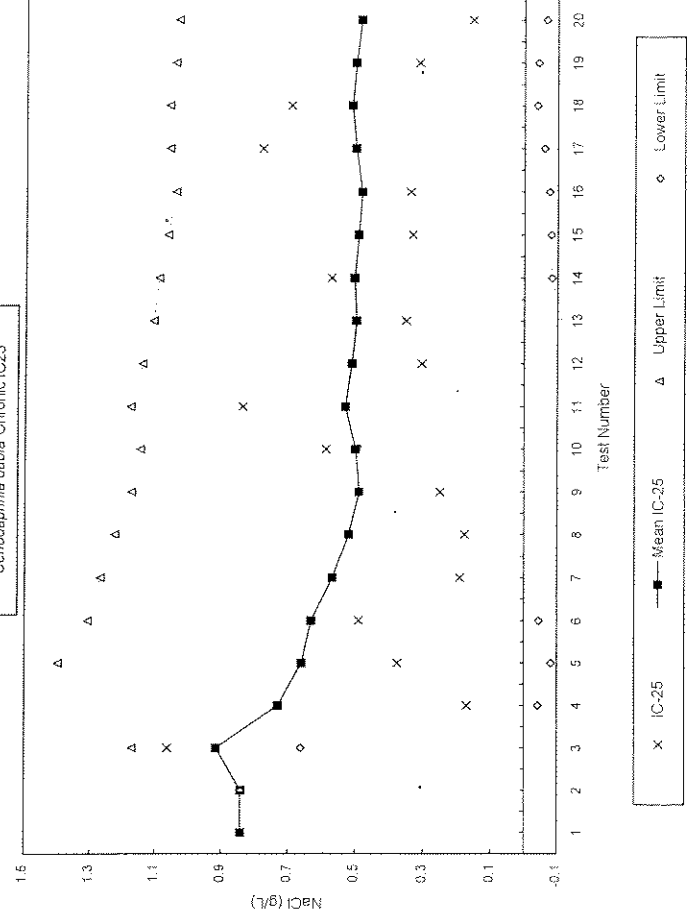
Reference Control Chart
Ceriodaphnia dubia Acute LC50



Ceriodaphnia dubia
Reference Control Chart for NaCl Chronic Toxicity

Test Number	Test Date	IC-25 (g/L)	Mean IC-25	Calculated limits	Organism Source
				Upper Lower	
1	10/04/04	0.842	0.84		
2	11/01/04	0.842	0.84	0.84	Aquatec Biological Sciences
3	01/04/05	1.063	0.92	1.17	Aquatec Biological Sciences
4	02/03/05	0.171	0.73	1.50	Aquatec Biological Sciences
5	03/02/05	0.375	0.66	1.40	Aquatec Biological Sciences
6	04/01/05	0.49	0.63	1.31	Aquatec Biological Sciences
7	05/03/05	0.192	0.57	1.27	Aquatec Biological Sciences
8	06/02/05	0.178	0.52	1.22	Aquatec Biological Sciences
9	07/05/05	0.25	0.49	1.17	Aquatec Biological Sciences
10	08/02/05	0.587	0.50	1.15	Aquatec Biological Sciences
11	09/06/05	0.837	0.53	1.18	Aquatec Biological Sciences
12	10/07/05	0.305	0.51	1.14	Aquatec Biological Sciences
13	11/08/05	0.352	0.50	1.11	Aquatec Biological Sciences
14	12/06/05	0.573	0.50	1.09	Aquatec Biological Sciences
15	01/03/06	0.333	0.48	1.07	Aquatec Biological Sciences
16	02/02/06	0.339	0.48	1.04	Aquatec Biological Sciences
17	03/02/06	0.78	0.50	1.06	Aquatec Biological Sciences
18	04/18/06	0.693	0.51	1.06	Aquatec Biological Sciences
19	05/02/06	0.313	0.50	1.04	Aquatec Biological Sciences
20	06/13/06	0.155	0.48	1.03	Aquatec Biological Sciences

Reference Control Chart
Ceriodaphnia dubia Chronic IC25



Appendix 6
SOP TOX2-002, Standard Operating Procedure for
Cladoceran, *Ceriodaphnia dubia*, Survival and
Reproduction Toxicity Test

**Standard Operating Procedure for
Cladoceran, *Ceriodaphnia dubia* Survival and Reproduction Toxicity Test
U.S. EPA Method 1002.0 (NELAC ACCREDITED METHOD)**

1.0 IDENTIFICATION OF TEST METHOD

This SOP describes procedures for conducting a chronic toxicity test with the cladoceran, *Ceriodaphnia dubia*. This test is used to estimate the chronic toxicity of whole effluents or other aqueous samples with this test species.

2.0 APPLICABLE MATRIX OR MATRICES

The described test is used to assess toxicity of wastewaters (effluents, influents), receiving waters, and other prepared aqueous solutions.

3.0 DETECTION LIMIT

Not applicable.

4.0 SCOPE AND APPLICATION

This SOP describes procedures for performing a static-renewal chronic toxicity test with cladoceran, *Ceriodaphnia dubia*.

5.0 SUMMARY OF TEST METHOD

A summary of the test method is attached (Table 1). Organisms are exposed, for 6 – 8 days, typically to five concentrations of effluent (or aqueous sample) and the controls. Chronic toxicity is estimated by calculating the chronic no-observed-effect-concentration (C-NOEC). The IC25 is an additional chronic value that may be used to estimate chronic toxicity to *Ceriodaphnia dubia*. This procedure is based on the guidelines of EPA-821-R-02-013 (Method 1002.0). In some US EPA regions, NPDES permits require calculation of acute values from the 48-h survival data within the chronic test. The A-NOEC and 48-h LC50 are calculated from the 48-h data using TOXIS2.

6.0 DEFINITIONS

LC50: The computed concentration that results in 50 percent mortality of the test organisms (may be computed from 48-h data).

A-NOEC: The acute no-observed-effect-concentration. The highest concentration resulting in no statistically significant reduction in survival or reproduction relative to the control.

C-NOEC: The chronic no-observed-effect-concentration. The highest concentration resulting in no statistically significant reduction in survival relative to the control.

IC25: A value calculated by linear interpolation to provide a point-estimate of effluent (or other aqueous samples) that causes a 25% reduction in reproduction relative to the control.

Initial chemistry: Water chemistry parameters (temperature, pH, dissolved oxygen, and conductivity) measured from a sub-sample of all test concentrations and controls before the time of test start and daily before test solution renewals.

Final chemistry: Water chemistry parameters (temperature, pH, dissolved oxygen, and conductivity) measured in all test concentrations and controls daily after test solution renewals (old water from the test cups) and at the end of the test.

7.0 INTERFERENCES

Not applicable.

8.0 SAFETY

Samples acquired for toxicity testing may contain unknown toxicants or health hazards. Protective equipment (e.g., lab coats, disposable gloves) should be worn when handling samples.

9.0 EQUIPMENT AND SUPPLIES

Calibrated Instrumentation and Water Quality Apparatus:

- pH meter
- Dissolved Oxygen (DO) meter
- Thermometer (accurate to 0.1°C)
- Conductivity meter
- Alkalinity titration apparatus
- Hardness titration apparatus

Additional Equipment:

- Test chambers (30-ml disposable cups), color coded
- Test board with randomized scheme, glass cover
- Light table
- Waste collection bucket
- Forms and Paperwork:
 - Survival and reproduction data form
 - Initial and final chemistry data form
 - Alkalinity and hardness data form

10.0 REAGENTS AND STANDARDS

- Laboratory reconstituted water (soft water, moderately hard water) or culture water
- Deionized water
- Reference toxicant solutions

11.0 SAMPLE COLLECTION, PRESERVATION, SHIPMENT, AND STORAGE

Samples for chronic toxicity tests are typically collected, cold-preserved, and shipped to Aquatec. Sample acceptance and log-in procedures are outlined in SOP TOX1-017. After receipt at Aquatec, samples should be refrigerated when not being prepared for use in toxicity tests. The holding time for effluent samples is 36 hours from the time of collection until the time of first use. Typically a series of three samples (effluent and receiving water) are shipped and received for testing. The first samples are used for Days 0 (test start) and renewal on Day 1; the second samples are used for renewal on Days 2 and 3; the third samples are used for renewal on Days 4, 5, and 6 (and 7 and 8, if required).

12.0 QUALITY CONTROL

For the test to be acceptable, survival in the controls must equal or exceed 80 percent. Also, the control females must have produced an average of 15 or more young per female and at least 60% of the surviving females in the controls must have produced a third brood. Also, the test conditions must be within the guidelines described in the protocol (Table 1).

Standard reference toxicant (SRT) tests (monthly 48-h acute tests with sodium chloride as the toxicant and quarterly chronic SRT-tests with sodium chloride as the toxicant) are performed with a representative sub-set of the test organisms and result in an LC50 (for acute SRTs) or IC25 (for chronic SRTs) within the boundaries of the control chart. Deviations from acceptance standards should be documented and may result in the test being viewed as "conditionally acceptable" or "unacceptable" (See Section 19.0 below).

13.0 CALIBRATION AND STANDARDIZATION

Not applicable for the toxicity test. Any instrumentation (e.g., water quality instrumentation) required for conducting the test must be calibrated on a daily basis following the relevant SOP or instrument guidelines.

14.0 PROCEDURE

14.1 Test System and Conditions

The test system and environmental conditions for the chronic toxicity test are summarized in Table 1.

14.2 Test Organisms

Procurement and Documentation

Test organisms for the *Ceriodaphnia* chronic test are obtained from Aquatec Biological Sciences, Inc. laboratory cultures. Neonates less than 24-h old and all collected within an 8-h period are used for testing. Documentation of brood board source and date and time must be included in the project data package. *Ceriodaphnia dubia* are cultured in individual culture cups (one organism per cup) maintained at $25 \pm 1^\circ\text{C}$. Neonates collected for testing may be held in individual culture cups until distributed to tests.

Evaluation of *Ceriodaphnia* Condition and Acclimation

If, during examination, it appears that more than 10 percent of the parent females or the neonates collected for the test have died during the 24-h period preceding the test, notify the Toxicity Laboratory Manager immediately. A decision will be made regarding the possibility of collecting an alternate stock of neonates for testing. If the test is to be delayed, document the reason on the Project Documentation form. Also, it may be necessary to notify the client.

NOTE: Brood boards for a test are started 7-10 days prior to the test. These brood boards must be carefully monitored for general health and reproductive condition. Documented tracking of parent organisms for survival and reproduction must be performed daily prior to collecting neonates for a chronic toxicity test. Any problems with brood board *Ceriodaphnia dubia* stocks should be reported to the Laboratory Manager immediately.

Ordinarily, *C. dubia* neonates are cultured in laboratory water (1:1 mix of Lamoille River water and moderately hard water amended with selenium and vitamin B12) up until the time of test initiation. The temperature of the parent and neonate stocks should be maintained at $25 \pm 1^\circ\text{C}$. Return parent stock females from the neonate cups to the source batch culture.

If acclimation to a client's receiving water is required, gradual water changes should be made (e.g., 25%-50% hourly) to the test organisms to receiving water.

Food

At the time of neonate collection, or on the morning of a scheduled test, feed neonates in each cup 0.1 ml *Selenastrum* and 0.1 ml yeast-Cerophyll-trout chow (YCT).

Sample Preparation

Procedures for effluent and diluent sample preparation are described in a SOP TOX1-013. The typical dilution factors are 0.5, however, consult applicable client permits for the appropriate dilution factor and included permit-limit concentrations when required.

14.3 Initiate the Test

Prepare the test chambers

For a test where receiving water is used as the diluent, an additional laboratory control (e.g., soft water, moderately hard water, or culture water) must be included in the test array. New 30-mL disposable plastic condiment cups are used as test chambers. Each test treatment will have ten true replicates (no water connection), therefore, 70 test cups will be required. Test cups should be color coded with stick-on dots as follows:

<u>Color Code</u>	<u>Test Treatment</u>
Green	Laboratory Control
Dark Blue	Receiving water Control
Light Blue	Lowest test concentration
Orange	Next lowest test concentration
Yellow	Middle test concentration
Red	Next highest test concentration
Star	Highest test concentration

Typically the receiving water is the dilution water and statistical control for a toxicity test, however, there are cases where a client's permit requires that laboratory water be used as dilution water (and statistical control) and the receiving water is used as an additional (non-statistical) control.

Measure Initial Chemistries

Remove an aliquot (approximately 100 ml) from each test dilution and the controls. This aliquot is used to measure the following parameters: pH, DO, temperature, and conductivity. Record the data directly on the Toxicity Test Data Form for Day 0. The temperature of the solutions must be within a range of $\pm 1^{\circ}\text{C}$ of the selected test temperature (25°C).

Recommended water chemistry ranges at time of test initiation

If solutions are not within the ranges specified below, notify the Toxicity Laboratory Director.

pH - acceptable range, 6.0-9.0

DO - acceptable range, 4.0 – 8.5 mg/L

Temperature - acceptable range, $24-26^{\circ}\text{C}$

Conductivity - often has a pattern of increasing conductance with increasing sample strength.

Collect a sub-sample of each new sample of the controls and 100% effluent for subsequent analysis of hardness and alkalinity. Label and store in a refrigerator at 4°C .

If prepared solutions are to be stored temporarily prior to starting the test, store the test solutions at the target test temperature ($24-26^{\circ}\text{C}$).

Decant test solutions to the appropriate test cups, approximately 20 mL per cup. Place the test cups in randomized positions on the test board.

Prepare and distribute test organisms

Select approximately 20 brood cups (containing neonates collected for the test), each with 8 or more neonates. Pool neonates in a crystallizing dish prior to distribution to the test. Randomly distribute neonates to test containers (5 per test container) with a transfer pipet.

Distribution of test organisms and test initiation

Neonates are distributed to the test board following the blocking procedure outlined in EPA-600-4-91/002. This blocking procedure allows the performance of each parent female to be tracked. If a particular female produces one weak offspring or male for use in the test, the likelihood of producing all weak offspring or all males is greater. By using the known parentage technique, poor performance of young from a given female can be omitted from all concentrations. The procedure is as follows:

- Select 10 brood cups (containing neonates collected for the test), each with 8 or more neonates. From a single cup, distribute (with a transfer pipet) one neonate to the

laboratory control cup, then one to the diluent control, one to the low test concentration, etc., working from low to high test concentration in test column 1.

- Rinse the pipet with deionized water.
- Select a second neonate up and distribute neonates to column 2 in the same manner as in Step a.
- Continue distributing neonates from a single neonate cup to the remaining test columns as in Step a. until all test chambers contain a single neonate.
- Record the date and time of test initiation on the *Ceriodaphnia* Survival and Reproduction Data form.

Aeration

Do not aerate *Ceriodaphnia dubia* chronic tests.

Feed the test organisms

Add 0.1 mL of *Selenastrum* and 0.1 mL of YCT solution to each test cup. Record the feeding time on the Survival and Reproduction Data form.

14.4 Monitoring the test

Daily Monitoring and Test Solution Renewal

The procedures described below pertain to Days 1-8 of the test (The test starts Day 0).

Sample preparation

Generally, samples collected on three separate occasions are used for the chronic test (e.g., samples are delivered on Day 0, Day 2 and Day 4). Samples are prepared according to the procedures outlined in SOP TOX1-013. Use the most recently collected samples (effluent and dilution water) for the renewal procedure. The initial chemistry parameters of temperature, pH, dissolved oxygen, and conductivity should be measured daily and recorded on each test concentration prior to completing the test solution renewal.

Test solution renewal and biological monitoring

Test solutions in each test cup are renewed daily. During the renewal procedure, take care to avoid injuring neonates. The controls should be renewed first, then the low concentrations and then the higher test concentrations. This procedure will minimize the potential for back-contamination of a lower test concentration with a higher test concentration. Conduct the renewal procedure over a light table.

- Remove the test board from the test rack and remove the glass cover. Measure the temperature of one replicate of each test treatment. Record the data on the Final Chemistry Data form.
- Fill ten new cups coded for laboratory control with approximately 15-20 mL of laboratory control water. Remove laboratory control Replicate 1 test cup from the test board.
- If the parent organism in this replicate is alive, transfer the organism with a large-bore pipet to the new test cup containing new control solution. Record a zero (if no neonates are present) in the data box for Laboratory Control, Replicate 1.
- If the organism is dead, record a "D" in the data box for this replicate. (It is helpful at this point to record "D" in the box for this replicate for subsequent test days to prevent that data box from being used in the future.)
- Examine the original test cup carefully to see whether any neonates were released by the parent organism in the prior 24-hour period. (Neonate production does not normally start until Day 3 or Day 4 of the test.) If live neonates are present in the cup, the exact neonate count must be

recorded in the data box for the replicate. If the parent organism has died record: D / # of neonates released. If a parent organism is accidentally injured and dies, designate as "*" and footnote the occurrence of the accidental mortality. This organism will be deleted from the data analysis. Place marble to fill any location that is empty due to mortality. If the parent organism is missing, it should be scored as "D" (unless a known and documented laboratory error resulted in the loss of the organism).

- Continue the procedure outlined above for Control Replicates 2-10. Pool the "old test water" from the old test cups into a beaker or cup. This must be saved for final chemistry analysis.

The decanted water ("old water") from the ten replicates must be pooled and saved for final chemistry determinations. Continue renewals for all test solutions working from low to high test concentrations.

When renewals have been completed, record your initials, date, and time of renewal in the remarks section of the Survival and Reproduction Data form. Also, indicate the sample number used for renewal. Replace all test cups in the assigned position on the test board.

Final Chemistry

Measure the pH, D.O., and conductivity (Temperature has already been measured in "a." above.) of the pooled water sample decanted from the ten replicates for each test treatment. It is preferable to do this immediately after completing the renewal to obtain an accurate representation of the test conditions. Discard the solution in the appropriate waste receptacle.

Feeding

As soon as the renewal procedure has been completed, add 0.1 ml of *Selenastrum* and 0.1 ml of YCT to each test cup. Record the time fed in the Remarks section of the Survival and Reproduction Data form. Replace the glass cover on the test board and return the test board to the testing area.

14.5 Termination of the Toxicity Test

The *Ceriodaphnia dubia* chronic test may be ended on Day 6, 7, or 8. The test should be ended when 60% or more of the surviving females in the controls have produced their third brood and have released an average of at least 15 neonates per female during the test. If this requirement has not been reached on Day 8, the final test data (survival and reproduction) should be recorded and the test should be ended.

Final Biological Monitoring (Survival and Reproduction)

- Measure and record temperatures from the test.
- For each replicate, determine whether the parent female is alive or dead and record the results in the appropriate data box of the Survival and Reproduction Data form. Also, count the number of neonates released by the parent female in the prior 24 hours and record the data in the appropriate box.

Because of the rapid rate of development of *Ceriodaphnia*, all observations of organism survival and neonate production should be completed within two hours. Record the time of test completion in remarks section.

Final Chemistry (end of test)

Combine the test solution from each replicate of a test treatment. Measure and record the final chemistry parameters (pH, DO, and conductivity) as specified above.

15.0 CALCULATIONS

The C-NOEC is calculated using the TOXIS2 software program. The IC25 can also be computed automatically using the TOXIS2 program. Enter the test data into the TOXIS2 template prepared for each client. The dilution water control should be entered as the "D" control and is used for statistical comparisons. The additional control is entered as the "B" control. Run the statistical program for the EPA chronic Toxicity Test flow chart (Figures 4 and 6, pages 168 and 173 of EPA-821-02-013) and print the entered test data and the statistical results. Check the entered data against the original hand-written test data and record the date and initials. Place the statistical printouts in the project folder (by SDG) and return the folder with all paperwork to the project holding file.

16.0 METHOD PERFORMANCE

Test conditions should be at or near the limits outlined in the Protocol (Table 1).

17.0 POLLUTION PREVENTION

Effluents and receiving waters used in toxicity tests are stored refrigerated until the test data have been reviewed and deemed acceptable by the Laboratory Manager or the Director. Contact the Laboratory Manager or Director prior to discarding any stored samples. Effluent and receiving water samples may be discarded following a period of chlorination (e.g., 30 minutes). Effluent samples that have exhibited high toxicity in low test concentrations should be discarded in the "Aqueous Waste" drum for disposal by a certified waste handler. Other samples containing unknown or suspected toxic contaminants should be discarded in the "Aqueous Waste" drum.

18.0 DATA ASSESSMENT AND ACCEPTANCE CRITERIA FOR QUALITY CONTROL MEASURES

The Laboratory Manager and/or the Laboratory Director will review test data to ensure that all elements of the data package are available and complete (Log-in work sheets, test IDs, Chain-of-Custody documentation, toxicity test bench sheets, organism records, and SRT data). The reviewer will check the package for transcription errors, clarity of observations and notations, initials, and completeness. The reviewer will also compare the test data to the Quality Control standards outlined in Section 12.0 above. Any deficiencies will be addressed and resolved (with appropriate notation) prior to assembling the package for the final report.

19.0 CORRECTIVE ACTIONS FOR OUT-OF-CONTROL DATA

Data that do not meet Quality Control standards will be assessed and a decision will be made whether to reject the test data and deemed "unacceptable" (requiring a repeated test) or "provisionally acceptable" (requiring a qualifier in the final report). An example of an unacceptable test could include one where the controls fail to meet the 80% survival requirement. A designation of a "provisionally acceptable" test might include one where samples were received outside of prescribed holding temperatures or times.

20.0 CONTINGENCIES FOR HANDLING OUT-OF-CONTROL OR UNACCEPTABLE DATA

Analysts experiencing an "out-of-control" event (e.g., test replicate spills, test solutions improperly prepared, test temperatures out of target range, etc.) should note the event on the bench sheet and also notify the Laboratory Manager or Laboratory Director. A decision will be made by the Laboratory Manager or Laboratory Director as to whether to continue the test (with the appropriate qualifier) or whether to terminate the test. If the test is terminated, the client should be notified so that re-sampling and re-testing can be scheduled as soon as possible.

21.0 WASTE MANAGEMENT

See 17.0 above.

22.0 REFERENCES

The test procedure is based upon the guidelines outlined in EPA-821-R-02-013, *Short-term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Water to Freshwater*

Organisms (4th Ed.). Regional guidelines may require in slight modifications of the test protocol (e.g., solution renewals, test duration, target test temperature).

23.0 TABLES, DIAGRAMS, FLOW CHARTS, AND VALIDATION DATA

Refer to Table 3 (pp. 164 of EPA-821-R-02-013) and the EPA Statistical Flow Chart (Figure 4 page 168 of EPA-821-R-02-013 and related discussions within that document).

24.0 TRAINING

Laboratory analysts performing this procedure must receive instruction from a previously trained analyst. Individual parts of the overall procedure may be performed under the guidance of a previously-trained analyst.

To be qualified for the overall procedure outlined in this SOP, the analyst must:

- Read this SOP.

- Receive verbal and visual instruction.

- Achieve a daily neonate count that agrees ($\pm 5\%$) with the count of an experienced analyst.

- Be trained on pertinent associated SOPs.

Table 1. Test Protocol for Ceriodaphnia dubia survival and reproduction test

ASSOCIATED PROTOCOL: EPA 2002. *Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*. (EPA-821-R-02-013), Method 1002.0

1. Test type:	Static, daily renewal
2. Test temperature:	25 ± 1°C
3. Light quality:	Ambient laboratory illumination
4. Photoperiod:	16 hr. light, 8 hr. dark
5. Test chamber size:	30 ml
6. Test solution volume:	15 - 25 ml / replicate
7. Renewal of test concentrations:	Daily using most recent samples collected
8. Age of test organisms:	Less than 24 h (released within 8-h period)
9. No. organisms / test chamber:	1
10. No. of replicate chambers / concentration:	10
11. No. of organisms / concentration:	10
12. Feeding regime:	Feed 0.1 ml of YTC and algal suspension daily
13. Cleaning:	None, new color-coded cups daily with renewal
14. Aeration:	None
15. Dilution water:	Receiving water or laboratory water
16. Test concentrations:	6.25, 12.5, 25, 50, 100% (unless specified otherwise by permit)
17. Laboratory control:	Reconstituted water (soft, or moderately hard) or culture water
18. Test duration:	6 – 8 days
19. Monitoring:	Daily: temperature, DO, pH, and conductivity before and after renewal. Hardness, alkalinity on each new sample. Biological monitoring (survival and neonate counts) daily
19. End points:	Survival and reproduction
20. Reference toxicant test:	Sodium chloride 48-h LC50 and IC25
21. Test acceptability (Control performance):	80% or greater survival and an average of 15 neonates per surviving female. 60% of the control organisms must have produced three broods.
22. Data interpretation:	C-NOEC and IC25 (if client, or permit requires) using Toxis2 statistical software.

APPENDIX 2

Laboratory Reports

Columbia Analytical Services, Inc.
O'Brien & Gere, Inc.

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7407CDM

Date Sampled : 07/10/00 11:00 Order #: 915983 Sample Matrix: WATER
Date Received: 07/11/06 Submission #: R2632318

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	07/14/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	07/14/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	07/14/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	07/14/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	07/14/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	07/14/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	07/14/06	1.0
ZINC	200.7	0.0200	0.0200 U	MG/L	07/14/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7407CTM

Date Sampled : 07/10/00 11:00 Order #: 915984 Sample Matrix: WATER
Date Received: 07/11/06 Submission #: R2632318

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	07/14/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	07/14/06	1.0
CALCIUM	200.7	1.00	93.9	MG/L	07/14/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	07/14/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	07/14/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	07/14/06	1.0
MAGNESIUM	200.7	1.00	38.0	MG/L	07/14/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	07/14/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	07/14/06	1.0
ZINC	200.7	0.0200	0.0200 U	MG/L	07/14/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7406RTM

Date Sampled : 07/10/00 08:15 Order #: 915985 Sample Matrix: WATER
Date Received: 07/11/06 Submission #: R2632318

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	07/14/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	07/14/06	1.0
CALCIUM	200.7	1.00	24.4	MG/L	07/14/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	07/14/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	07/14/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	07/14/06	1.0
MAGNESIUM	200.7	1.00	8.72	MG/L	07/14/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	07/14/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	07/14/06	1.0
ZINC	200.7	0.0200	0.0200 U	MG/L	07/14/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7406R

Date Sampled : 07/10/00 08:15 Order #: 915981 Sample Matrix: WATER
Date Received: 07/11/06 Submission #: R2632318

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
AMMONIA	350.1	0.0500	0.0500 U	MG/L	07/17/06	10:52	1.0
CHLORIDE	300.0	0.200	18.0	MG/L	07/13/06	17:40	10.0
TOTAL ALKALINITY	310.1	2.00	94.3	MG/L	07/17/06	09:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	7.01	MG/L	07/20/06	17:10	1.0
TOTAL PHOSPHORUS	365.1	0.0500	2.14	MG/L	07/17/06	12:34	1.0
TOTAL SOLIDS	160.3	10.0	148	MG/L	07/14/06	10:00	1.0
TOTAL SUSPENDED SOLIDS	160.2	1.00	2.50	MG/L	07/12/06	12:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7407C

Date Sampled : 07/10/00 11:00 Order #: 915982 Sample Matrix: WATER
Date Received: 07/11/06 Submission #: R2632318

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.487	MG/L	07/17/06	10:52	1.0
CHLORIDE	300.0	0.200	210	MG/L	07/16/06	01:20	40.0
TOTAL ALKALINITY	310.1	2.00	371	MG/L	07/17/06	09:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	6.10	MG/L	07/20/06	17:48	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/17/06	12:34	1.0
TOTAL SOLIDS	160.3	10.0	739	MG/L	07/14/06	10:00	1.0
TOTAL SUSPENDED SOLIDS	160.2	1.00	1.00 U	MG/L	07/12/06	12:00	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7407CCN

Date Sampled : 07/10/00 11:00 Order #: 915986 Sample Matrix: WATER
Date Received: 07/11/06 Submission #: R2632318

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL CYANIDE	335.4	0.0100	0.0500	MG/L	07/18/06	11:45	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7406RCN

Date Sampled : 07/10/00 08:15 Order #: 915987 Sample Matrix: WATER
Date Received: 07/11/06 Submission #: R2632318

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL CYANIDE	335.4	0.0100	0.0100 U	MG/L	07/18/06	11:45	1.0

NPDES Sampling
GE Pittsfield
Toxicity pH

Date: 7/10/06

Acute Dry
Acute Wet
Chronic (Day 1, 2 or 3)

*Split Sample
C. TOX 1 / A. TOX
July 2006*

Effluent Composite
Sample # A7407C
Date 7-10-06
Time 11⁰⁰AM
pH 7.81 su

River/Dilution Water
Sample # A7406R
Date 7-10-06
Time 8¹⁵AM
pH 7.78 su

Mark Wronowsky 7-10-06
Signed & Dated

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7409CDM

Date Sampled : 07/12/06 11:00 Order #: 921132 Sample Matrix: WATER
Date Received: 07/13/06 Submission #: R2632624

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	07/19/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	07/19/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	07/19/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	07/19/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	07/19/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	07/19/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	07/19/06	1.0
ZINC	200.7	0.0200	0.0499	MG/L	07/19/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7409CTM

Date Sampled : 07/12/06 11:00 Order #: 921134 Sample Matrix: WATER
Date Received: 07/13/06 Submission #: R2632624

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.222	MG/L	07/19/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	07/19/06	1.0
CALCIUM	200.7	1.00	67.7	MG/L	07/19/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	07/19/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	07/19/06	1.0
LEAD	200.7	0.00500	0.00620	MG/L	07/19/06	1.0
MAGNESIUM	200.7	1.00	26.9	MG/L	07/19/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	07/19/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	07/19/06	1.0
ZINC	200.7	0.0200	0.0589	MG/L	07/19/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7408RTM

Date Sampled : 07/12/06 08:15 Order #: 921136 Sample Matrix: WATER
Date Received: 07/13/06 Submission #: R2632624

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	07/19/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	07/19/06	1.0
CALCIUM	200.7	1.00	26.8	MG/L	07/19/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	07/19/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	07/19/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	07/19/06	1.0
MAGNESIUM	200.7	1.00	9.74	MG/L	07/19/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	07/19/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	07/19/06	1.0
ZINC	200.7	0.0200	0.0200 U	MG/L	07/19/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7408R

Date Sampled : 07/12/06 08:15 Order #: 921125 Sample Matrix: WATER
Date Received: 07/13/06 Submission #: R2632624

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.0500 U	MG/L	07/17/06	10:52	1.0
CHLORIDE	300.0	0.200	18.9	MG/L	07/16/06	12:10	10.0
TOTAL ALKALINITY	310.1	2.00	107	MG/L	07/17/06	09:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	5.82	MG/L	07/20/06	18:26	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/17/06	12:34	1.0
TOTAL SOLIDS	160.3	10.0	170	MG/L	07/19/06	11:00	1.0
TOTAL SUSPENDED SOLIDS	160.2	1.00	1.30	MG/L	07/14/06	13:20	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7409C

Date Sampled : 07/12/06 11:00 Order #: 921126 Sample Matrix: WATER
Date Received: 07/13/06 Submission #: R2632624

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.443	MG/L	07/17/06	10:52	1.0
CHLORIDE	300.0	0.200	151	MG/L	07/18/06	17:40	40.0
TOTAL ALKALINITY	310.1	2.00	265	MG/L	07/17/06	09:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	9.73	MG/L	07/20/06	19:04	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0917	MG/L	07/17/06	12:34	1.0
TOTAL SOLIDS	160.3	10.0	579	MG/L	07/19/06	11:00	1.0
TOTAL SUSPENDED SOLIDS	160.2	1.00	6.90	MG/L	07/14/06	13:20	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7408RCN

Date Sampled : 07/12/06 08:15 Order #: 921137 Sample Matrix: WATER
Date Received: 07/13/06 Submission #: R2632624

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL CYANIDE	335.4	0.0100	0.0100 U	MG/L	07/18/06	11:45	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/21/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 7/06
Client Sample ID : A7409CCN

Date Sampled : 07/12/06 11:00 Order #: 921139 Sample Matrix: WATER
Date Received: 07/13/06 Submission #: R2632624

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL CYANIDE	335.4	0.0100	0.0258	MG/L	07/18/06	11:45	1.0

NPDES Sampling
GE Pittsfield
Toxicity pH

Date: 7/12/06

Acute Dry

Acute Wet

Chronic (Day 1, 2 or 3)

Effluent Composite

Sample # A7409C

Date 7-12-06

Time 1100AM

pH 7.78 su

River/Dilution Water

Sample # A7408R

Date 7-12-06

Time 8:15 AM

pH 7.84 su

Mark Wasnowsky 7-12-06
Signed & Dated

COLUMBIA ANALYTICAL SERVICES

Reported: 07/25/06

General Electric
Project Reference: BIOMONITORING - 7/06
Client Sample ID : A7411CDM

Date Sampled : 07/14/06 11:00 Order #: 921864 Sample Matrix: WATER
Date Received: 07/15/06 Submission #: R2632654

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	07/19/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	07/19/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	07/19/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	07/19/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	07/19/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	07/19/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	07/19/06	1.0
ZINC	200.7	0.0200	0.0364	MG/L	07/19/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/25/06

General Electric
Project Reference: BIOMONITORING - 7/06
Client Sample ID : A7411CTM

Date Sampled : 07/14/06 11:00 Order #: 921867 Sample Matrix: WATER
Date Received: 07/15/06 Submission #: R2632654

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	07/19/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	07/19/06	1.0
CALCIUM	200.7	1.00	59.8	MG/L	07/19/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	07/19/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	07/19/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	07/19/06	1.0
MAGNESIUM	200.7	1.00	23.5	MG/L	07/19/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	07/19/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	07/19/06	1.0
ZINC	200.7	0.0200	0.0294	MG/L	07/19/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/25/06

General Electric
Project Reference: BIOMONITORING - 7/06
Client Sample ID : A7410RTM

Date Sampled : 07/14/06 08:15 Order #: 921868 Sample Matrix: WATER
Date Received: 07/15/06 Submission #: R2632654

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.123	MG/L	07/19/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	07/19/06	1.0
CALCIUM	200.7	1.00	15.8	MG/L	07/19/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	07/19/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	07/19/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	07/19/06	1.0
MAGNESIUM	200.7	1.00	5.46	MG/L	07/19/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	07/19/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	07/19/06	1.0
ZINC	200.7	0.0200	0.0200 U	MG/L	07/19/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/25/06

General Electric
Project Reference: BIOMONITORING - 7/06
Client Sample ID : A7410R

Date Sampled : 07/14/06 08:15 Order #: 921860 Sample Matrix: WATER
Date Received: 07/15/06 Submission #: R2632654

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
AMMONIA	350.1	0.0500	0.100 U	MG/L	07/25/06	10:49	2.0
CHLORIDE	300.0	0.200	12.5	MG/L	07/23/06	23:29	10.0
TOTAL ALKALINITY	310.1	2.00	59.5	MG/L	07/24/06		1.0
TOTAL ORGANIC CARBON	9060	1.00	6.39	MG/L	07/20/06	19:42	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/24/06	14:02	1.0
TOTAL SOLIDS	160.3	10.0	108	MG/L	07/19/06	11:00	1.0
TOTAL SUSPENDED SOLIDS	160.2	1.00	5.30	MG/L	07/20/06	15:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/25/06

General Electric
Project Reference: BIOMONITORING - 7/06
Client Sample ID : A7411C

Date Sampled : 07/14/06 11:00 Order #: 921861 Sample Matrix: WATER
Date Received: 07/15/06 Submission #: R2632654

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.269	MG/L	07/25/06	10:49	1.0
CHLORIDE	300.0	0.200	129	MG/L	07/24/06	00:25	40.0
TOTAL ALKALINITY	310.1	2.00	241	MG/L	07/24/06		1.0
TOTAL ORGANIC CARBON	9060	1.00	6.28	MG/L	07/20/06	20:57	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	07/24/06	14:02	1.0
TOTAL SOLIDS	160.3	10.0	492	MG/L	07/19/06	11:00	1.0
TOTAL SUSPENDED SOLIDS	160.2	1.00	2.60	MG/L	07/20/06	15:15	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/25/06

General Electric
Project Reference: BIOMONITORING - 7/06
Client Sample ID : A7410RCN

Date Sampled : 07/14/06 08:15 Order #: 921869 Sample Matrix: WATER
Date Received: 07/15/06 Submission #: R2632654

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL CYANIDE	335.4	0.0100	0.0100 U	MG/L	07/24/06	12:04	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 07/25/06

General Electric
Project Reference: BIOMONITORING - 7/06
Client Sample ID : A7411CCN

Date Sampled : 07/14/06 11:00 Order #: 921870 Sample Matrix: WATER
Date Received: 07/15/06 Submission #: R2632654

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE	TIME	DILUTION
					ANALYZED	ANALYZED	
TOTAL CYANIDE	335.4	0.0100	0.0314	MG/L	07/24/06	12:04	1.0

NPDES Sampling
GE Pittsfield
Toxicity pH

Date: 7/14/06

Acute Dry

Acute Wet

Chronic (Day 1, 2 or 3)

Effluent Composite

Sample # A7411C

Date 7-14-06

Time 11:00 AM

pH 7.75 su

River/Dilution Water

Sample # A7410R

Date 7-14-06

Time 8:15 AM

pH 7.73 su

Mark Wasniewski 7-14-06
Signed & Dated

APPENDIX 3

Chain of Custody Forms

Cooler Receipt And Preservation Check Form

Project/Client GG Pittsfield Submission Number _____

Cooler received on 7-11-06 by: KE COURIER: CAS UPS FEDEX VELOCITY CLIENT

- | | | | |
|-----------------------------------------------------------------|-----------------------|-------------|------------|
| 1. Were custody seals on outside of cooler? | YES | NO | |
| 2. Were custody papers properly filled out (ink, signed, etc.)? | <u>YES</u> | NO | |
| 3. Did all bottles arrive in good condition (unbroken)? | <u>YES</u> | NO | |
| 4. Did any VOA vials have significant air bubbles? | YES | NO | <u>N/A</u> |
| 5. Were <u>Ice</u> or Ice packs present? | <u>YES</u> | NO | |
| 6. Where did the bottles originate? | <u>CAS/ROC</u> CLIENT | | |
| 7. Temperature of cooler(s) upon receipt: | <u>5.4°</u> | <u>3.4°</u> | |

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below

No No No No No

Date/Time Temperatures Taken: 7-11-06 @ 10:06

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples _____

PC Secondary Review: 7-11-06

Cooler Breakdown: Date: _____ by: _____

- | | | | |
|-------------------------------------------------------------------------|-----------------------|-----------------------|-----|
| 1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? | YES | NO | |
| 2. Did all bottle labels and tags agree with custody papers? | YES | NO | |
| 3. Were correct containers used for the tests indicated? | YES | NO | |
| 4. Air Samples: Cassettes / Tubes Intact | Canisters Pressurized | Tedlar® Bags Inflated | N/A |

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added	Final pH
pH	Reagent						
12	NaOH						
2	HNO ₃						
2	H ₂ SO ₄						
Residual Chlorine (+/-) for TCN & Phenol							
5-9**	P/PCBs (608 only)						

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____
 **If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments: _____

PC Secondary Review: _____

7/10/2006

CHRONIC AQUATIC TOXICITY COMPOSITE 7C1

Split Sample
C. TOX 1 + AD TOX
JULY 2006

Month: JUL
Week: 3
Fiscal Wk: 28
Weather: Chronic Composite Sample #1

	Gallons/Day	MI in Composite	Percent of Composite
001	41,690	2,977.43	19.85%
004	0	-	0.00%
007	0	-	0.00%
64T	8,440	602.77	4.02%
64G	159,900	11,419.80	76.13%
09A	0	-	0.00%
09B	0	-	0.00%
	210,030	15000	100.00%

The Chronic Toxicity Composite was made today by Mark Wasnewsky @ 11:00 AM
according to the table above, and given the sample ID# A7407C

COC 08G071006

Mark Wasnewsky
Signed

7-10-06
Date



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0659 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475 PAGE OF CAS CONTACT

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)		PRESERVATIVE	NUMBER OF CONTAINERS	MATRIX	SAMPLING DATE	SAMPLING TIME	DATE	LAB ID	CLIENT SAMPLE ID	REMARKS/ALTERNATE DESCRIPTION																																																	
Project Manager	Report CC	Project Manager	Report CC	PRELIMINARY COMMENTS	PRELIMINARY COMMENTS																																																										
APDES Permit		J. Nicholson		GCMS VOAs GCMS SVoAs GC VOAs PESTICIDES PCBs METALS, TOTAL (List in comments below)	GCMS VOAs GCMS SVoAs GC VOAs PESTICIDES PCBs METALS, TOTAL (List in comments below)	GCMS VOAs GCMS SVoAs GC VOAs PESTICIDES PCBs METALS, TOTAL (List in comments below)	1	7-12-06	11:00 AM	7:12 AM	921136	A7408RTM	Filtered + Preserved																																																		
GE Corp Environmental		159 Plastics Ave Bldg 57																																																													
Pittsfield MA 01201																																																															
413 448 5715		413 448 5735																																																													
<p>Company Address: GE Corp Environmental, 159 Plastics Ave Bldg 57, Pittsfield MA 01201</p> <p>Phone: 413 448 5715, FAX: 413 448 5735</p> <p>Sample's Signature: <i>MARK WASNIEWSKY</i>, Sample's Printed Name: MARK WASNIEWSKY</p>																																																															
<p>FOR OFFICE USE ONLY</p> <table border="1"> <thead> <tr> <th>LAB ID</th> <th>CLIENT SAMPLE ID</th> <th>DATE</th> <th>SAMPLING TIME</th> <th>MATRIX</th> </tr> </thead> <tbody> <tr> <td>921136</td> <td>A7408RTM</td> <td>7-12-06</td> <td>7:12 AM</td> <td>H₂O</td> </tr> <tr> <td>921134</td> <td>A7409CTM</td> <td></td> <td>11:00 AM</td> <td></td> </tr> <tr> <td>921132</td> <td>A7409CDM</td> <td></td> <td>11:00 AM</td> <td></td> </tr> <tr> <td>921128</td> <td>A7408R</td> <td></td> <td>8:15 AM</td> <td></td> </tr> <tr> <td>921126</td> <td>A7409C</td> <td></td> <td>7:10 AM</td> <td></td> </tr> <tr> <td>921125</td> <td>A7408R</td> <td></td> <td>8:15 AM</td> <td></td> </tr> <tr> <td>921126</td> <td>A7409C</td> <td></td> <td>7:10 AM</td> <td></td> </tr> <tr> <td>921125</td> <td>A7408R</td> <td></td> <td>8:15 AM</td> <td></td> </tr> <tr> <td>921126</td> <td>A7409C</td> <td></td> <td>7:10 AM</td> <td></td> </tr> </tbody> </table>														LAB ID	CLIENT SAMPLE ID	DATE	SAMPLING TIME	MATRIX	921136	A7408RTM	7-12-06	7:12 AM	H ₂ O	921134	A7409CTM		11:00 AM		921132	A7409CDM		11:00 AM		921128	A7408R		8:15 AM		921126	A7409C		7:10 AM		921125	A7408R		8:15 AM		921126	A7409C		7:10 AM		921125	A7408R		8:15 AM		921126	A7409C		7:10 AM	
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921125	A7408R		8:15 AM																																																												
921126	A7409C		7:10 AM																																																												
<p>SPECIAL INSTRUCTIONS/COMMENTS: Metals Total + Dissolved metals listed on bottle labels. Samples Packaged in Ice</p>																																																															
<p>See OAPP <input type="checkbox"/></p> <p>SAMPLE RECEIPT: CONDITION/COOLER TEMP. RECEIVED BY <i>Mark Wasniewsky</i> RELINQUISHED BY <i>Mark Wasniewsky</i></p> <p>Signature: <i>Mark Wasniewsky</i> Signature: <i>Mark Wasniewsky</i></p> <p>Printed Name: MARK WASNIEWSKY Printed Name: MARK WASNIEWSKY</p> <p>Firm: OBGS Firm: Horowitz Lovejoy</p> <p>Date/Time: 7-12-06 2:00 PM Date/Time: 7/13/06 9:20</p>																																																															
<p>TURNAROUND REQUIREMENTS: RUSH (SURCHARGES APPLY) 24 hr 48 hr 5 day STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE</p> <p>REPORT REQUIREMENTS: I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data V. Spectralized Forms / Custom Report</p> <p>Edata Yes No</p> <p>RELINQUISHED BY: RECEIVED BY: 2632624</p>																																																															

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)		PRESERVATIVE	NUMBER OF CONTAINERS	REMARKS/ ALTERNATE DESCRIPTION	
Project Manager		Report CC							
NPDES Permit				043					
J. Nicholson				ALCALINITY					
G.E. Corp Environmental				CYANIDE EPA 825.4					
159 Plastics Ave Bldg 59				TIC					
Pittsfield MA 01201									
Phone	413 448 5915	FAX	413 448 5935						
Signature	Signature		Signature						
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky					
CLIENT SAMPLE ID	FOR OFFICE USE ONLY	LAB ID	DATE	SAMPLING TIME	MATRIX				
A7408R	921125	921125	7-12-06	8:15 AM	H2O				
A7409C	921126	921126	7-12-06	8:15 AM	H2O				
A7408RCN	921127	921127	7-12-06	8:15 AM	H2O				
A7409CCN	921128	921128	7-12-06	8:15 AM	H2O				
A7408R	921125	921125	7-12-06	8:15 AM	H2O				
A7409C	921126	921126	7-12-06	8:15 AM	H2O				
SPECIAL INSTRUCTIONS/COMMENTS									
Metals									
See CAPP <input type="checkbox"/>									
SAMPLE RECEIPT: CONDITION/COOLER TEMP:		RECEIVED BY		RECEIVED BY		CUSTODY SEALS: Y N		RECEIVED BY	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7-12-06 2:09 PM		7-12-06 9:20 AM							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm		Firm		Firm	
OBG		Weather Levee							
Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
7/12/06 9:20									
Signature		Signature		Signature		Signature		Signature	
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky		M. W. Wasniewsky	
Firm		Firm		Firm					

Cooler Receipt And Preservation Check Form

Project/Client GE Submission Number _____

Cooler received on 7/13/06 by: 9102 COURIER: CAS UPS **FEDEX** VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO N/A
4. Did any VOA vials have significant air bubbles? YES NO
5. Were Ice or Ice packs present? CAS/ROC CLIENT
6. Where did the bottles originate? _____
7. Temperature of cooler(s) upon receipt: 2.3 _____

Is the temperature within 0° - 6° C?: Yes No Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 7/13/06 940

Thermometer ID: 161 or **IR GUN** Reading From: Temp Blank or **Sample Bottle**

If out of Temperature, Client Approval to Run Samples: _____

PC Secondary Review: CP 7-13-06

- Cooler Breakdown: Date: _____ by: _____
1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
 2. Did all bottle labels and tags agree with custody papers? YES NO
 3. Were correct containers used for the tests indicated? YES NO
 4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A
- Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added	Final pH
pH	Reagent						
12	NaOH						
2	HNO ₃						
2	H ₂ SO ₄						
Residual Chlorine (+/-)	for TCN & Phenol						
5-9**	P/PCBs (608 only)						

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH

**if pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments: _____

PC Secondary Review: _____

7/12/2006

CHRONIC AQUATIC TOXICITY COMPOSITE 7C2

Month: JULY
Week: 3
Fiscal Wk: 28
Weather: Chronic Composite Sample #2

	Gallons/Day	MI in Composite	Percent of Composite
001	122,780	5,494.17	36.63%
004	0	-	0.00%
007	0	-	0.00%
64T	46,440	2,078.10	13.85%
64G	165,990	7,427.73	49.52%
09A	0	-	0.00%
09B	0	-	0.00%
	335,210	15000	100.00%

The Chronic Toxicity Composite was made today by Mark Wasnewsky @ 11⁰⁰ AM
according to the table above, and given the sample ID# A7409C.

Chain-of-Custody Form Number:	<u>0BG071206</u>
Analysis:	<u>C. TOX 2</u>
Location:	<u>1100 AM</u> Date: <u>7-12-06</u>
Sample Label Serial Number	<u>A 7409C</u>

Mark Wasnewsky
Signed
7-12-06
Date



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475 PAGE 07 OF 08

SR #

CAS Contact

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)	
Project Manager		Report CC		PRESERVATIVE	NUMBER OF CONTAINERS
NPDES Permit		J. Nicholson			
Company Address		GE Corp Environmental			
159 Plastics Ave Bldg 59		Pittsfield MA 01201			
Phone	413 448 5915	FX#	413 448 5935		
Sampler's Signature	[Signature]		Sampler's Printed Name	MARIK WASNIEWSKY	
FOR OFFICE USE ONLY		LAB ID	SAMPLING DATE	TIME	MATRIX
CLIENT SAMPLE ID	A7410RTM	921868	7-14-06	8:15 AM	H ₂ O
	A7411CTM	921867	11:00 AM		
	A7411CDM	921864	11:00 AM		
	A7410R	921860	8:15 AM		
	A7411C	921861	11:00 AM		
	A7410R	921860	8:15 AM		
	A7411C	921861	11:00 AM		
	A7410R	921860	8:15 AM		
	A7411C	921861	11:00 AM		

CLIENT SAMPLE ID	PRESERVATIVE	ANALYSIS REQUESTED	REMARKS/ALTERNATE DESCRIPTION
A7410RTM		<input checked="" type="checkbox"/> METALS, TOTAL (List in comments below) <input checked="" type="checkbox"/> METALS, DISSOLVED (List in comments below) <input checked="" type="checkbox"/> TSS EPA 160.2 <input checked="" type="checkbox"/> CHLORIDES <input checked="" type="checkbox"/> TOTAL PHOSPHORUS <input checked="" type="checkbox"/> TOTAL PHOSPHORUS + AM ₃	Filtered + Preserved
A7411CTM			
A7411CDM			
A7410R			
A7411C			
A7410R			
A7411C			
A7410R			
A7411C			

SPECIAL INSTRUCTIONS/COMMENTS	TURNAROUND REQUIREMENTS	REPORT REQUIREMENTS	INVOICE INFORMATION
Metals TOTAL + DISSOLVED LISTED ON SAMPLE BOTTLE Samples Packed in Ice	<input type="checkbox"/> RUSH (SURCHARGES APPLY) <input checked="" type="checkbox"/> 24 hr <input type="checkbox"/> 48 hr <input checked="" type="checkbox"/> 5 day STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE	<input type="checkbox"/> I. Results Only <input type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MSMSD as required) <input type="checkbox"/> III. Results + QC and Calibration Summaries <input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data <input type="checkbox"/> V. Specialized Forms / Custom Report Edata <input type="checkbox"/> Yes <input type="checkbox"/> No	PO# BILL TO: SUBMISSION #: 2632654 RECEIVED BY

RECEIVED BY	RECEIVED BY	RECEIVED BY	RECEIVED BY
[Signature]	[Signature]	[Signature]	[Signature]
Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm	Firm	Firm
Date/Time	Date/Time	Date/Time	Date/Time



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR #

CAS Contact

Project Name AIPDES Permit		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)		PRESERVATIVE		NUMBER OF CONTAINERS		REMARKS/ALTERNATE DESCRIPTION	
Project Manager J. Nicholson		Report CC									
Company/Address GE Corp Environmental 159 Plastics Ave Bldg 59 Pittsfield MA 01201		FAX# 413 448 5935									
Phone # 413 448 5915		Sample's Signature Mark Wasniewsky		Sample's Printed Name MARK WASNIEWSKY							
FOR OFFICE USE ONLY		DATE		SAMPLING TIME		MATRIX					
CLIENT SAMPLE ID		LAB ID									
A7410R		921860		7-14-06 8:15 AM		H ₂ O		2		XXTRC CYANIDE 335.14	
A7411C		921861		11:02 AM				2			
A7410RCN		921869		8:15 AM				1			
A7411CCN		921870		11:00 AM				1			
SPECIAL INSTRUCTIONS/COMMENTS Metals Samples Packed in Ice											
TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 24 hr 48 hr 5 day STANDARD		REQUESTED FAX DATE		REQUESTED REPORT DATE		RECEIVED BY		RELINQUISHED BY		INVOICE INFORMATION	
REPORT REQUIREMENTS I. Results Only II. Results + CC Summaries (LCS, DUP, MS/MSD as required) III. Results + CC and Calibration Summaries IV. Data Validation Report with Raw Data V. Specialized Forms / Custom Report		Etdia Yes No		RECEIVED BY		RELINQUISHED BY		SUBMISSION #: 2632654		RECEIVED BY	
Signature Mark Wasniewsky		Printed Name MARK WASNIEWSKY		Signature Mark Wasniewsky		Printed Name MARK WASNIEWSKY		Signature		Printed Name	
Firm GE		Firm GE		Firm GE		Firm GE		Firm		Firm	
Date/Time 7-14-06 2:00 PM		Date/Time 7-14-06 2:00 PM		Date/Time 7-14-06 2:00 PM		Date/Time 7-14-06 2:00 PM		Date/Time		Date/Time	

Cooler Receipt And Preservation Check Form

Project/Client GE Submission Number _____

Cooler received on 7/15/06 by COR COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
 2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
 3. Did all bottles arrive in good condition (unbroken)? YES NO
 4. Did any VOA vials have significant air bubbles? YES NO (N/A)
 5. Were Ice or Ice packs present? YES NO
 6. Where did the bottles originate? CAS/ROO, CLIENT
 7. Temperature of cooler(s) upon receipt: 1.6
- Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes
 If No, Explain Below No No No No No

Date/Time Temperatures Taken: 7/15/06 1045
 Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples _____
 PC Secondary Review: 17 7/17/06

Cooler Breakdown: Date: _____ by: _____

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added	Final pH
pH	Reagent						
12	NaOH						
2	HNO ₃						
2	H ₂ SO ₄						
Residual Chlorine (+/-)	for TCN & Phenol						
5-9**	P/PCBs (608 only)						

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____
 **If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments: _____

PC Secondary Review: _____

7/14/2006

CHRONIC AQUATIC TOXICITY COMPOSITE 7C3

Month: JULY
Week: 3
Fiscal Wk: 28
Weather: Chronic Composite Sample #3

	Gallons/Day	MI in Composite	Percent of Composite
001	55,460	2,690.13	17.93%
004	0	-	0.00%
007	0	-	0.00%
64T	69,370	3,364.85	22.43%
64G	158,940	7,709.52	51.40%
09A	0	-	0.00%
09B	25,471	1,235.49	8.24%
	309,241	15000	100.00%

The Chronic Toxicity Composite was made today by Mark Wasnewsky @ 11:00 AM
according to the table above, and given the sample ID# A7411C.

CBC OBG 071406

Mark Wasnewsky
Signed
7-14-06
Date

