GE
159 Plastics Avenue
Pittsfield, MA 01201
USA

Transmitted via Overnight Courier

September 8, 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 August 2006 (GECD900)

Dear Mr. Tagliaferro and Ms. Steenstrup:

Enclosed are copies of General Electric's (GE's) monthly progress report for August 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 Silfer or me if you have any questions.

Sincerely,

Richard W. Gates /JHP

Richard W. Gates
Remediation Project Manager

Enclosure
V:\GE_Pittsfield_General\Reports and Presentations\Monthly Reports\2006\8-06 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 EOEA
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 Silfer, 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)

August 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)
AUGUST 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 July 1 through July 31, 2006, are provided in Attachment B to this report.

- GE received a report from Columbia Analytical Services, Inc. (CAS) titled *NPDES Biomonitoring Report for August 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 August 2006. A copy of this document is provided in Attachment C.

- GE received a report from CAS titled *NPDES Chronic Biomonitoring Report for August 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 August 2006. A copy of that report is provided in Attachment D.

c. Work Plans/Reports/Documents Submitted

None

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.*

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

a. Activities Undertaken/Completed

- Completed processing and stockpiling of crushed materials, and completed demobilization activities associated with 40s Complex demolition activities.

- Conducted air monitoring for particulates in connection with demolition activities in the 40s Complex, as identified in Table 1-1.

- Conducted wipe sampling of equipment associated with the 40s Complex demolition activities, as identified in Table 1-1.

- Initiated pre-demolition removal activities (e.g., asbestos abatement, equipment/liquids removal) at Building 32 Substation.

- Conducted pond silt sampling at Pittsfield Sand & Gravel, as identified in Table 1-1.

- Conducted building material characterization sampling at the Building 32 Substation in support of future demolition activities, as identified in Table 1-1.

- Conducted sampling of paint from the exterior of the T31-4 transformer, as identified in Table 1-1.

b. Sampling/Test Results Received

See attached tables.

c. Work Plans/Reports/Documents Submitted

Submitted letter to EPA describing GE's plans for demolition of the Building 32 Substation and disposition of building materials at the Hill 78 On-Plant Consolidation Area (OPCA), including results of sampling above-grade materials at the Building 32 Substation (August 10, 2006).*

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

- 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 letter and figure to EPA documenting final as-built subgrade elevations of the temporary crushed material stockpile at the 40s Complex; and following EPA approval, install vegetative cover over crushed material stockpile.

- In Fall 2006, conduct annual inspections of 20s and 30s Complexes to assess compliance with Grants of Environmental Restrictions and Easements (EREs).*

ITEM 1
(cont'd)
PLANT AREA
20s, 30s, 40s COMPLEXES
(GECD120)
AUGUST 2006

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

Received EPA approval of GE's plans for consolidation of certain building materials from the Building 32 Substation at the Hill 78 OPCA, as described in GE's August 10, 2006 submission (described above) (August 24, 2006).*

TABLE 1-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 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-CONC-NW-1	8/30/06	Concrete	SGS	PCB	
Building 32 Substation Sampling	SUB32-CONC-SE-1	8/30/06	Concrete	SGS	PCB	
Building 32 Substation Sampling	SUB32-TRANS-OIL-1	8/30/06	Oil	SGS	PCB	
Building 32 Substation Sampling	SUB32-TRANS-PAINT-1	8/30/06	Paint	SGS	TCLP-LEAD	
Jackson Demolition 40's Complex Equipment Sampling	JACKSON-BUCKET-W1	8/14/06	Wipe	SGS	PCB	8/17/06
Jackson Demolition 40's Complex Equipment Sampling	JACKSON-BUCKET-W2	8/14/06	Wipe	SGS	PCB	8/17/06
Jackson Demolition 40's Complex Equipment Sampling	JACKSON-BUCKET-W3	8/14/06	Wipe	SGS	PCB	8/17/06
Jackson Demolition 40's Complex Equipment Sampling	JACKSON-CLAM-W1	8/14/06	Wipe	SGS	PCB	8/17/06
Jackson Demolition 40's Complex Equipment Sampling	JACKSON-CLAM-W2	8/14/06	Wipe	SGS	PCB	8/17/06
Jackson Demolition 40's Complex Equipment Sampling	JACKSON-CLAM-W3	8/14/06	Wipe	SGS	PCB	8/17/06
Jackson Demolition 40's Complex Equipment Sampling	JACKSON-SBUCKET-W1	8/14/06	Wipe	SGS	PCB	8/17/06
Jackson Demolition 40's Complex Equipment Sampling	JACKSON-SBUCKET-W2	8/14/06	Wipe	SGS	PCB	8/17/06
Jackson Demolition 40's Complex Equipment Sampling	JACKSON-SBUCKET-W3	8/14/06	Wipe	SGS	PCB	8/17/06
Pittsfield Sand & Gravel Pond Silt Sampling	PSG-PONDSILT-C1	8/14/06	Soil	SGS	PCB, VOC, SVOC, Metals	
Transformer T31-4 Sampling	T31-4-Paint-1	8/14/06	Solid	SGS	TCLP-Lead	
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	8/1/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	8/1/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	8/1/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	8/1/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Background Location	8/1/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	8/2/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	8/2/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	8/2/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	8/2/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Background Location	8/2/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	8/3/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	8/3/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	8/3/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	8/3/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Background Location	8/3/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	8/4/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	8/4/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	8/4/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	8/4/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Background Location	8/4/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	8/7/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	8/7/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	8/7/06	Air	Berkshire Environmental	Particulate Matter	8/14/06

TABLE 1-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 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	S2 - Woodlawn Avenue	8/7/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Background Location	8/7/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	8/8/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	8/8/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	8/8/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	8/8/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Background Location	8/8/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	8/9/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	8/9/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	8/9/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	8/9/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Background Location	8/9/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	8/10/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	8/10/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	8/10/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	8/10/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Background Location	8/10/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	8/11/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	8/11/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	8/11/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	8/11/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Background Location	8/11/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	8/14/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	8/14/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	8/14/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	8/14/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Background Location	8/14/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	8/15/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	8/15/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	8/15/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	8/15/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Background Location	8/15/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	8/16/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	8/16/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	8/16/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	8/16/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Background Location	8/16/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	8/17/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	8/17/06	Air	Berkshire Environmental	Particulate Matter	8/21/06

TABLE 1-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 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	M2 - South of Bldg. 5	8/17/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	8/17/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Background Location	8/17/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	W3 - West of 40s Complex	8/18/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	MC3 - Near Bldg. 16 & 19	8/18/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	M2 - South of Bldg. 5	8/18/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	S2 - Woodlawn Avenue	8/18/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Background Location	8/18/06	Air	Berkshire Environmental	Particulate Matter	8/21/06

TABLE 1-2
PCB DATA RECEIVED DURING AUGUST 2006

JACKSON DEMOLITION 40'S COMPLEX EQUIPMENT SAMPLING
20s, 30s, 40s COMPLEX
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in µg/100cm^2)

Sample ID	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
Jackson-Bucket-W1	8/14/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Jackson-Bucket-W2	8/14/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Jackson-Bucket-W3	8/14/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Jackson-Clam-W1	8/14/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Jackson-Clam-W2	8/14/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Jackson-Clam-W3	8/14/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Jackson-SBucket-W1	8/14/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Jackson-SBucket-W2	8/14/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Jackson-SBucket-W3	8/14/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	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 1-3
AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING AUGUST 2006[1]

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
08/01/06	W3 - West of 40s Complex	0.055*	0.048*	10:15	WSW
	MC3 - Near Bldg. 16 & 19	0.086*		10:30	
	M2 - South of Bldg. 5	0.064*		10:30	
	S2 - Woodlawn Avenue	0.071*		10:30	
08/02/06	W3 - West of 40s Complex	0.054*	0.049*	10:30	WNW
	MC3 - Near Bldg. 16 & 19	0.087*		10:15	
	M2 - South of Bldg. 5	0.062*		10:30	
	S2 - Woodlawn Avenue	0.072*		10:30	
08/03/06	W3 - West of 40s Complex	0.035*	0.034*	10:45	WNW
	MC3 - Near Bldg. 16 & 19	0.061*		10:45	
	M2 - South of Bldg. 5	0.042*		10:45	
	S2 - Woodlawn Avenue	0.047*		10:45	
08/04/06	W3 - West of 40s Complex	0.010*	0.008*	11:30	NNW
	MC3 - Near Bldg. 16 & 19	0.035*		11:00	
	M2 - South of Bldg. 5	0.011*		11:00	
	S2 - Woodlawn Avenue	0.012*		11:00	
08/07/06	W3 - West of 40s Complex	0.035*	0.024*	10:30	SSW
	MC3 - Near Bldg. 16 & 19	0.073*		10:30	
	M2 - South of Bldg. 5	0.045*		10:30	
	S2 - Woodlawn Avenue	0.078*		10:30	
08/08/06	W3 - West of 40s Complex	0.015*	0.010*	11:00	NNW
	MC3 - Near Bldg. 16 & 19	0.012*		11:15	
	M2 - South of Bldg. 5	0.015*		11:15	
	S2 - Woodlawn Avenue	0.017*		11:15	
08/09/06	W3 - West of 40s Complex	0.011*	0.006*	10:15	Calm
	MC3 - Near Bldg. 16 & 19	0.012*		5:45[3]	
	M2 - South of Bldg. 5	0.010*		10:30	
	S2 - Woodlawn Avenue	0.010*		10:30	
08/10/06	W3 - West of 40s Complex	0.021*	0.012*	10:45	SSW
	MC3 - Near Bldg. 16 & 19	0.021*		10:30	
	M2 - South of Bldg. 5	0.021*		10:30	
	S2 - Woodlawn Avenue	0.023*		10:30	
08/11/06	W3 - West of 40s Complex	0.007*	0.004*	10:45	NNW
	MC3 - Near Bldg. 16 & 19	0.007*		10:45	
	M2 - South of Bldg. 5	0.006*		10:45	
	S2 - Woodlawn Avenue	0.005*		10:45	
08/14/06	W3 - West of 40s Complex	0.019*	0.011*	11:15	SSW
	MC3 - Near Bldg. 16 & 19	0.019*		11:00	
	M2 - South of Bldg. 5	0.017*		11:00	
	S2 - Woodlawn Avenue	0.019*		11:00	
08/15/06	W3 - West of 40s Complex	0.021*	0.007*	11:00	WSW
	MC3 - Near Bldg. 16 & 19	0.019*		10:45	
	M2 - South of Bldg. 5	0.021*		10:45	
	S2 - Woodlawn Avenue	0.018*		10:45	

TABLE 1-3
AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING AUGUST 2006[1]

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
08/16/06	W3 - West of 40s Complex	0.012*	0.006*	10:30	NNW
	MC3 - Near Bldg. 16 & 19	0.012*		10:15	
	M2 - South of Bldg. 5	0.010*		10:30	
	S2 - Woodlawn Avenue	0.012*		10:30	
08/17/06	W3 - West of 40s Complex	0.008*	0.005*	11:00	Calm
	MC3 - Near Bldg. 16 & 19	0.011*		11:00	
	M2 - South of Bldg. 5	0.012*		11:00	
	S2 - Woodlawn Avenue	0.009*		11:00	
08/18/06	W3 - West of 40s Complex	0.018*	0.005*	10:30	SSW
	MC3 - Near Bldg. 16 & 19	0.018*		10:15	
	M2 - South of Bldg. 5	0.015*		10:30	
	S2 - Woodlawn Avenue	0.017*		10:30	
Notification Level		0.120			

Notes:

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

40s Complex demolition activities completed August 18, 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.

[3] Sampling period was shortened due to instrument malfunction.

ITEM 2
PLANT AREA
EAST STREET AREA 2-SOUTH
(GECD150)
AUGUST 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 ERE and survey plans for the City Recreational Area.*
- In Fall 2006, conduct annual inspection of cover at 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 AUGUST 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-07	7/18/06	Water	Accutest	PCB	8/3/06
Building 64G LPCA Monitoring	G6-64G-11	7/18/06	Water	Accutest	PCB	8/3/06
Building 64G LPCA Monitoring	G6-64G-15	7/18/06	Water	Accutest	PCB	8/3/06

TABLE 2-2
PCB DATA RECEIVED DURING AUGUST 2006

BUILDING 64G LPCA MONITORING
EAST STREET AREA 2 - SOUTH
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
G6-64G-07	7/18/2006	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
G6-64G-11	7/18/2006	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)
G6-64G-15	7/18/2006	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)	ND(0.000050)

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 3
PLANT AREA
EAST STREET AREA 2-NORTH
(GECD140)
AUGUST 2006

a. Activities Undertaken/Completed

- Completed site restoration and general housekeeping activities at former Buildings 1, 2, 3, and 3B, and associated annexes (Buildings 1A and 100 Annex).

- Conducted drum sampling at Building 78 of oil drained from product lines below grade near the Buildings 1, 2 and 3 footprint, as identified in Table 3-1.

- Conducted wipe sampling of equipment used in association with Buildings 1, 2 and 3 demolition activities, 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 3,000 gallons of water from the Buildings 1, 2 and 3 demolition project to Building 64G for treatment.

b. Sampling/Test Results Received

See attached tables.

c. Work Plans/Reports/Documents Submitted

- Submitted Final Removal Design/Removal Action (RD/RA) Work Plan (August 25, 2006).*

- Submitted letter to EPA confirming discussions related to an earlier preliminary verbal notification to EPA (made on August 25, 2006) regarding sampling of oil from two sections of pipe removed from an underground tunnel located adjacent to former Building 5 (August 28, 2006).

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

- Continue removal and investigation of piping located in the underground tunnel located adjacent to former Building 5, as outlined in the above-referenced August 28, 2006 letter to EPA.

- Schedule initiation of demolition activities associated with Buildings 7, 17, 17C and 19 following final EPA approval of demolition debris disposition.

ITEM 3
(cont'd)
PLANT AREA
EAST STREET AREA 2-NORTH
(GECD140)
AUGUST 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 AUGUST 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 1, 2, & 3 Oil Drum Sampling	F1753-1	8/22/06	Oil	SGS	PCB	8/25/06
Buildings 1, 2, & 3 Oil Drum Sampling	F1754-1	8/22/06	Oil	SGS	PCB	8/25/06
Lenox Construction Buildings 1, 2, & 3 Utility Cut Equipment Sampling	LENOX-EXCAVATORBUCKET-W1	8/15/06	Wipe	SGS	PCB	8/17/06
Lenox Construction Buildings 1, 2, & 3 Utility Cut Equipment Sampling	LENOX-EXCAVATORBUCKET-W2	8/15/06	Wipe	SGS	PCB	8/17/06
Lenox Construction Buildings 1, 2, & 3 Utility Cut Equipment Sampling	LENOX-EXCAVATORBUCKET-W3	8/15/06	Wipe	SGS	PCB	8/17/06

TABLE 3-2
PCB DATA RECEIVED DURING AUGUST 2006

LENOX CONSTRUCTION BUILDINGS 1, 2, & 3 UTILITY CUT EQUIPMENT SAMPLING
EAST STREET AREA 2 - NORTH
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in µg/100cm^2)

Sample ID	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
Lenox-ExcavatorBucket-W1	8/15/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Lenox-ExcavatorBucket-W2	8/15/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Lenox-ExcavatorBucket-W3	8/15/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	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 3-3
PCB DATA RECEIVED DURING AUGUST 2006

BUILDINGS 1, 2, & 3 OIL DRUM SAMPLING
EAST STREET AREA 2 - NORTH
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
F1753-1	8/22/2006	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	270	270
F1754-1	8/22/2006	ND(470)	ND(470)	ND(470)	ND(470)	ND(470)	ND(470)	760	760

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 4
PLANT AREA
EAST STREET AREA 1-NORTH
(GECD130)
AUGUST 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)

In Fall 2006, conduct annual determination of any change in ownership of properties with Conditional Solutions, and conduct annual inspection of those properties.*

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

None

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

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

a. Activities Undertaken/Completed

- Continued consolidation of excavated materials from Former Oxbow Areas A and C into the OPCAs.
- Initiated final grading of consolidated materials in Building 71 OPCA in preparation for final cover system.
- Consolidated at the OPCAs certain leachate material from Newell Street Area I.
- 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 August 2006 was 121,000 gallons (see Table 5-4).

b. Sampling/Test Results Received

See attached tables.

c. Work Plans/Reports/Documents Submitted

Submitted an Addendum to the Phase II Final OPCA Cover Construction Plan that was submitted in May 2006 (August 25, 2006).

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 excavated materials from Former Oxbow Areas A and C into the OPCAs.
- Consolidate excavated materials from the Lyman Street Area into the Building 71 OPCA, if available.
- Continue Phase II final cover construction for Building 71 OPCA.

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

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

- Prepare and submit plan to address the blockage within the storm sewer line located beneath the Hill 78 OPCA; and following EPA approval, mobilize Contractor to site to address blockage. (This matter is discussed further in Item 6.)

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

- Received EPA conditional approval of GE's May 5, 2006 plan titled *2006 Consolidation and Phase II Final Cover Construction* (August 1, 2006).

- Received EPA approval of GE's August 25, 2006 Addendum to Phase II Final OPCA Cover Construction Plan (August 29, 2006).

TABLE 5-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 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	8/1/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/1/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/1/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/1/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/1/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Background Location	8/1/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/2/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/2/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/2/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/2/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/2/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Background Location	8/2/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/3/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/3/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/3/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/3/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/3/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Background Location	8/3/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/4/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/4/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/4/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/4/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/4/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Background Location	8/4/06	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/7/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/7/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/7/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/7/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/7/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Background Location	8/7/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/8/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/8/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/8/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/8/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/8/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Background Location	8/8/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/9/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/9/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/9/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/9/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/9/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Background Location	8/9/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/10/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/10/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/10/06	Air	Berkshire Environmental	Particulate Matter	8/14/06

TABLE 5-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 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	Northwest of OPCAs	8/10/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/10/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Background Location	8/10/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/11/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/11/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/11/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/11/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/11/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Background Location	8/11/06	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/14/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/14/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/14/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/14/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/14/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Background Location	8/14/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/15/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/15/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/15/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/15/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/15/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Background Location	8/15/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/16/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/16/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/16/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/16/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/16/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Background Location	8/16/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/17/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/17/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/17/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/17/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/17/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Background Location	8/17/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/18/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/18/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/18/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/18/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/18/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Background Location	8/18/06	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/21/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/21/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/21/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/21/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/21/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Background Location	8/21/06	Air	Berkshire Environmental	Particulate Matter	8/29/06

TABLE 5-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 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	8/22/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/22/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/22/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/22/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/22/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Background Location	8/22/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/23/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/23/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/23/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/23/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/23/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Background Location	8/23/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/24/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/24/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/24/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/24/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/24/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Background Location	8/24/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/25/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/25/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/25/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/25/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/25/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Background Location	8/25/06	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/28/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/28/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/28/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/28/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/28/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Background Location	8/28/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/29/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/29/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/29/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/29/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/29/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Background Location	8/29/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/30/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/30/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/30/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Northwest of OPCAs	8/30/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/30/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Background Location	8/30/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	North of OPCAs	8/31/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Pittsfield Generating Co.	8/31/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Southeast of OPCAs	8/31/06	Air	Berkshire Environmental	Particulate Matter	9/1/06

TABLE 5-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 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	Northwest of OPCAs	8/31/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	West of OPCAs	8/31/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Background Location	8/31/06	Air	Berkshire Environmental	Particulate Matter	9/1/06
PCB Ambient Air Sampling	Field Blank	7/24 - 7/25/06	Air	Berkshire Environmental	PCB	8/8/06
PCB Ambient Air Sampling	Northwest of OPCAs	7/24 - 7/25/06	Air	Berkshire Environmental	PCB	8/8/06
PCB Ambient Air Sampling	West of OPCAs	7/24 - 7/25/06	Air	Berkshire Environmental	PCB	8/8/06
PCB Ambient Air Sampling	West of OPCAs colocated	7/24 - 7/25/06	Air	Berkshire Environmental	PCB	8/8/06
PCB Ambient Air Sampling	North of OPCAs	7/24 - 7/25/06	Air	Berkshire Environmental	PCB	8/8/06
PCB Ambient Air Sampling	Southeast of OPCAs	7/24 - 7/25/06	Air	Berkshire Environmental	PCB	8/8/06
PCB Ambient Air Sampling	Pittsfield Generating (PGE)	7/24 - 7/25/06	Air	Berkshire Environmental	PCB	8/8/06
PCB Ambient Air Sampling	Background East of Building 9B	7/24 - 7/25/06	Air	Berkshire Environmental	PCB	8/8/06
PCB Ambient Air Sampling	Field Blank	7/31 - 8/01/06	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	Northwest of OPCAs	7/31 - 8/01/06	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	West of OPCAs	7/31 - 8/01/06	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	West of OPCAs colocated	7/31 - 8/01/06	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	North of OPCAs	7/31 - 8/01/06	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	Southeast of OPCAs	7/31 - 8/01/06	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	Pittsfield Generating (PGE)	7/31 - 8/01/06	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	Background East of Building 9B	7/31 - 8/01/06	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	Field Blank	8/03 - 8/04/06	Air	Berkshire Environmental	PCB	8/10/06
PCB Ambient Air Sampling	Northwest of OPCAs	8/03 - 8/04/06	Air	Berkshire Environmental	PCB	8/10/06
PCB Ambient Air Sampling	West of OPCAs	8/03 - 8/04/06	Air	Berkshire Environmental	PCB	8/10/06
PCB Ambient Air Sampling	West of OPCAs colocated	8/03 - 8/04/06	Air	Berkshire Environmental	PCB	8/10/06
PCB Ambient Air Sampling	North of OPCAs	8/03 - 8/04/06	Air	Berkshire Environmental	PCB	8/10/06
PCB Ambient Air Sampling	Southeast of OPCAs	8/03 - 8/04/06	Air	Berkshire Environmental	PCB	8/10/06
PCB Ambient Air Sampling	Pittsfield Generating (PGE)	8/03 - 8/04/06	Air	Berkshire Environmental	PCB	8/10/06
PCB Ambient Air Sampling	Background East of Building 9B	8/03 - 8/04/06	Air	Berkshire Environmental	PCB	8/10/06
PCB Ambient Air Sampling	Field Blank	8/08 - 8/09/06	Air	Berkshire Environmental	PCB	8/15/06
PCB Ambient Air Sampling	Northwest of OPCAs	8/08 - 8/09/06	Air	Berkshire Environmental	PCB	8/15/06
PCB Ambient Air Sampling	West of OPCAs	8/08 - 8/09/06	Air	Berkshire Environmental	PCB	8/15/06
PCB Ambient Air Sampling	West of OPCAs colocated	8/08 - 8/09/06	Air	Berkshire Environmental	PCB	8/15/06
PCB Ambient Air Sampling	Field Blank	8/10 - 8/11/06	Air	Berkshire Environmental	PCB	8/17/06
PCB Ambient Air Sampling	Northwest of OPCAs	8/10 - 8/11/06	Air	Berkshire Environmental	PCB	8/17/06
PCB Ambient Air Sampling	West of OPCAs	8/10 - 8/11/06	Air	Berkshire Environmental	PCB	8/17/06
PCB Ambient Air Sampling	West of OPCAs colocated	8/10 - 8/11/06	Air	Berkshire Environmental	PCB	8/17/06
PCB Ambient Air Sampling	North of OPCAs	8/10 - 8/11/06	Air	Berkshire Environmental	PCB	8/17/06
PCB Ambient Air Sampling	Southeast of OPCAs	8/10 - 8/11/06	Air	Berkshire Environmental	PCB	8/17/06
PCB Ambient Air Sampling	Pittsfield Generating (PGE)	8/10 - 8/11/06	Air	Berkshire Environmental	PCB	8/17/06
PCB Ambient Air Sampling	Background East of Building 9B	8/10 - 8/11/06	Air	Berkshire Environmental	PCB	8/17/06
PCB Ambient Air Sampling	Field Blank	8/14 - 8/15/06	Air	Berkshire Environmental	PCB	8/21/06
PCB Ambient Air Sampling	Northwest of OPCAs	8/14 - 8/15/06	Air	Berkshire Environmental	PCB	8/21/06
PCB Ambient Air Sampling	West of OPCAs colocated	8/14 - 8/15/06	Air	Berkshire Environmental	PCB	8/21/06
PCB Ambient Air Sampling	North of OPCAs	8/14 - 8/15/06	Air	Berkshire Environmental	PCB	8/21/06
PCB Ambient Air Sampling	Southeast of OPCAs	8/14 - 8/15/06	Air	Berkshire Environmental	PCB	8/21/06
PCB Ambient Air Sampling	Pittsfield Generating (PGE)	8/14 - 8/15/06	Air	Berkshire Environmental	PCB	8/21/06

TABLE 5-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 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	Background East of Building 9B	8/14 - 8/15/06	Air	Berkshire Environmental	PCB	8/21/06

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 ug/m^3)

Date	Northwest of OPCAs	Northwest of OPCAs colocated	West of OPCAs	West of OPCAs colocated	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]
07/24/06 - 07/25/06	0.0014	----------	0.0016	0.0016	0.0017	0.0014	0.0045	0.0014	PDR[3]
07/31/06 - 08/01/06	0.0017	----------	0.0016 J	0.0011 J	0.0005 J	0.0015	0.0070	0.0023	PDR[3]
08/03/06 - 08/04/06	0.0010	----------	0.0017	0.0023	0.0013	0.0030	0.0107	0.0026	PDR[3]
08/08/06 - 08/09/06	ND	----------	0.0005	0.0004 J	NA[4]	NA[4]	NA[4]	NA[4]	PDR[3]
08/10/06 - 08/11/06	0.0011 J	----------	0.0011 J	0.0010 J	0.0004 J	0.0006 J	0.0020 J	0.0005 J	PDR[3]

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/m^3)

Date	Northwest of OPCAs	Northwest of OPCAs colocated	West of OPCAs	West of OPCAs colocated	North of OPCAs	Southeast of OPCAs	Pittsfield Generating (PGE)	Background Sample Location - East of Building 9B	Data Validated?
08/14/06 - 08/15/06	0.0024	----------	NA[5]	0.0019	0.0017	0.0008	0.0024	0.0016 J	PDR[3]
Exceedances of Notification Level (0.05 µg/m^3)	None	None	None	None	None	None	None	None	

(See Notes on Pages 3 and 4)

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/m^3)

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.

[4] During the extraction step one of the SGS lab extractionists reported ethyl ether fumes. The analyst doing the extraction confirmed that the soxtherm had leaked and the extract volumes were low for a number of samples. The samples were analyzed but QA/QC review showed that the results were unacceptable. SGS' Lab Director and QA/QC group also confirmed that the low volume results were unacceptable. The lab only reported the validated results.

[5] Sample result for the W location from 08/14/06 to 08/15/06 not available due to equipment malfunction.

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 deviation.
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 21.4°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.
9. Samples collected from the W, W colocated and N locations from 07/31/06 to 08/01/06 were qualified as estimated due to one surrogate recovery less than the lower control limit and less than 10%.

(See Notes on Pages 3 and 4)

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/m^3)

11. Samples collected from 08/10/06 to 08/11/06 were qualified as estimated due to low laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recovery less than the lower control limit.
12. Sample collected from the Background location from 08/14/06 to 08/15/06 was qualified due to the sampling calibration check.

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
01/10/06	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	
02/07/06	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	
04/17/06	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	
04/18/06	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	
04/19/06	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	
04/20/06	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	
04/21/06	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	
04/24/06	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	
04/25/06	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	
04/26/06	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 Date[1]	Sampler Location	Average Site Concentration (mg/m^3)	Background Site Concentration (mg/m^3)	Average Period (Hours:Min)	Predominant Wind Direction
04/27/06	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	
04/28/06	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	
05/01/06	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	
05/02/06	North of OPCAs	0.007*	0.011*	11:00	Variable
	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	
05/03/06	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	
05/04/06	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	
05/05/06	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	
05/08/06	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	
05/09/06	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	
05/10/06	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
05/11/06	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	
05/12/06	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	
05/15/06	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	
05/16/06	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	
05/17/06	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	
05/18/06	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	
05/19/06	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	
05/22/06	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	
05/23/06	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	
05/24/06	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 Date[1]	Sampler Location	Average Site Concentration (mg/m^3)	Background Site Concentration (mg/m^3)	Average Period (Hours:Min)	Predominant Wind Direction
05/25/06	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	
05/26/06	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	
05/30/06	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	
05/31/06	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	
06/01/06	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	
06/02/06	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	
06/06/06	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	
06/12/06	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	
06/13/06	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	
06/14/06	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
06/15/06	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	
06/16/06	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]	
06/19/06[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	
06/20/06	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	
06/21/06	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	
06/22/06	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	
06/23/06	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	
06/26/06	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]	
06/27/06	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	
06/28/06	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 Date[1]	Sampler Location	Average Site Concentration (mg/m^3)	Background Site Concentration (mg/m^3)	Average Period (Hours:Min)	Predominant Wind Direction
06/29/06	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	
06/30/06	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	
07/05/06	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	
07/06/06	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	
07/07/06	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	
07/10/06	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	
07/11/06	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	
07/12/06	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	
07/13/06	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	
07/14/06	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
07/17/06	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]	
07/18/06	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	
07/19/06	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	
07/20/06	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	
07/21/06	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	
07/24/06	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	
07/25/06	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]	
07/26/06	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	
07/27/06	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	
07/28/06	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**		11:00	
	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 Date[1]	Sampler Location	Average Site Concentration (mg/m^3)	Background Site Concentration (mg/m^3)	Average Period (Hours:Min)	Predominant Wind Direction
07/31/06	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	
08/01/06	North of OPCAs	0.050*	0.048*	10:45	WSW
	Pittsfield Generating Co.	0.065*		10:45	
	Southeast of OPCAs	0.064*		10:45	
	Northwest of OPCAs	0.025**		11:15	
	West of OPCAs	0.051*		10:45	
08/02/06	North of OPCAs	0.049*	0.049*	10:30	WNW
	Pittsfield Generating Co.	0.068*		10:30	
	Southeast of OPCAs	0.070*		10:30	
	Northwest of OPCAs	0.031**		11:15	
	West of OPCAs	0.040*		10:00	
08/03/06	North of OPCAs	0.035*	0.034*	11:15	WNW
	Pittsfield Generating Co.	0.044*		10:45	
	Southeast of OPCAs	0.045*		11:15	
	Northwest of OPCAs	0.018**		11:15	
	West of OPCAs	0.037*		10:45	
08/04/06	North of OPCAs	0.005*	0.008*	10:15	NNW
	Pittsfield Generating Co.	0.010*		10:15	
	Southeast of OPCAs	0.010*		10:00	
	Northwest of OPCAs	0.006**		10:45	
	West of OPCAs	0.005*		10:00	
08/07/06	North of OPCAs	0.030*	0.024*	11:15	SSW
	Pittsfield Generating Co.	0.044*		11:15	
	Southeast of OPCAs	0.043*		11:15	
	Northwest of OPCAs	0.022**		11:15	
	West of OPCAs	0.022*		11:00	
08/08/06	North of OPCAs	0.007*	0.010*	11:15	NNW
	Pittsfield Generating Co.	0.013*		10:45	
	Southeast of OPCAs	0.014*		11:15	
	Northwest of OPCAs	0.008**		11:15	
	West of OPCAs	0.008*		11:30	
08/09/06	North of OPCAs	0.007*	0.006*	10:30	Calm
	Pittsfield Generating Co.	0.007*		10:15	
	Southeast of OPCAs	0.008*		10:30	
	Northwest of OPCAs	0.007**		11:15	
	West of OPCAs	0.007*		10:30	
08/10/06	North of OPCAs	0.018*	0.012*	11:00	SSW
	Pittsfield Generating Co.	0.015*		10:30	
	Southeast of OPCAs	0.016*		11:15	
	Northwest of OPCAs	0.016**		11:15	
	West of OPCAs	0.014*		10:45	
08/11/06	North of OPCAs	0.004*	0.004*	10:45	NNW
	Pittsfield Generating Co.	0.004*		11:00	
	Southeast of OPCAs	0.004*		11:00	
	Northwest of OPCAs	0.006**		11:15	
	West of OPCAs	0.004*		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
08/14/06	North of OPCAs	0.025**	0.011*	11:00	SSW
	Pittsfield Generating Co.	0.014*		10:30	
	Southeast of OPCAs	0.016*		10:45	
	Northwest of OPCAs	0.018**		11:15	
	West of OPCAs	0.013*		11:00	
08/15/06	North of OPCAs	0.013**	0.007*	11:15	WSW
	Pittsfield Generating Co.	0.014*		10:15	
	Southeast of OPCAs	0.013*		11:30	
	Northwest of OPCAs	0.012**		11:15	
	West of OPCAs	0.012*		10:15	
08/16/06	North of OPCAs	0.007**	0.006*	11:15	NNW
	Pittsfield Generating Co.	0.007*		10:45	
	Southeast of OPCAs	0.009*		11:00	
	Northwest of OPCAs	0.007**		11:15	
	West of OPCAs	0.008*		10:45	
08/17/06	North of OPCAs	0.005**	0.005*	11:15	Calm
	Pittsfield Generating Co.	0.006*		11:00	
	Southeast of OPCAs	0.006*		11:00	
	Northwest of OPCAs	0.007**		11:15	
	West of OPCAs	0.005*		11:00	
08/18/06	North of OPCAs	0.011**	0.005*	11:00	SSW
	Pittsfield Generating Co.	0.012*		10:30	
	Southeast of OPCAs	0.014*		11:00	
	Northwest of OPCAs	0.010**		11:15	
	West of OPCAs	0.011*		10:45	
08/21/06	North of OPCAs	0.012**	0.005*	11:15	WNW
	Pittsfield Generating Co.	0.004*		10:30	
	Southeast of OPCAs	0.005*		10:45	
	Northwest of OPCAs	0.003**		11:15	
	West of OPCAs	0.003*		10:15	
08/22/06	North of OPCAs	0.008**	0.006*	11:15	WNW
	Pittsfield Generating Co.	0.006*		10:45	
	Southeast of OPCAs	0.006*		10:45	
	Northwest of OPCAs	0.007**		11:15	
	West of OPCAs	0.006*		10:30	
08/23/06	North of OPCAs	0.009**	0.012*	11:15	WNW
	Pittsfield Generating Co.	0.010*		10:45	
	Southeast of OPCAs	0.011*		10:15	
	Northwest of OPCAs	0.009**		11:15	
	West of OPCAs	0.010*		10:15	
08/24/06	North of OPCAs	0.005**	0.005*	11:15	Calm
	Pittsfield Generating Co.	0.007*		10:45	
	Southeast of OPCAs	0.005*		11:00	
	Northwest of OPCAs	0.004**		11:15	
	West of OPCAs	0.005*		10:45	
08/25/06	North of OPCAs	0.012**	0.031*	10:45	Calm
	Pittsfield Generating Co.	0.012*		10:45	
	Southeast of OPCAs	0.011*		10:45	
	Northwest of OPCAs	0.008**		10:45	
	West of OPCAs	0.011*		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 Date[1]	Sampler Location	Average Site Concentration (mg/m^3)	Background Site Concentration (mg/m^3)	Average Period (Hours:Min)	Predominant Wind Direction
08/28/06	North of OPCAs	0.016**	0.019*	10:30	Calm
	Pittsfield Generating Co.	0.023*		10:30	
	Southeast of OPCAs	0.023*		10:15	
	Northwest of OPCAs	0.010**		10:30	
	West of OPCAs	0.021*		10:30	
08/29/06	North of OPCAs	0.011**	0.019*	10:15	Calm
	Pittsfield Generating Co.	0.015*		10:15	
	Southeast of OPCAs	0.017*		10:15	
	Northwest of OPCAs	0.022**		10:15	
	West of OPCAs	0.018*		10:00	
08/30/06	North of OPCAs	0.007**	0.011*	10:45	NNW
	Pittsfield Generating Co.	0.008*		10:45	
	Southeast of OPCAs	0.010*		10:45	
	Northwest of OPCAs	0.006**		10:45	
	West of OPCAs	0.007*		10:30	
08/31/06	North of OPCAs	0.005**	0.003*	10:15	Variable
	Pittsfield Generating Co.	0.003*		10:15	
	Southeast of OPCAs	0.004*		10:15	
	Northwest of OPCAs	0.004**		10:15	
	West of OPCAs	0.004*		10:00	
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
August 2006

Month / Year	Total Volume of Leachate Transferred (Gallons)
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
August 2006	121,000

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)
AUGUST 2006

a. Activities Undertaken/Completed

Completed supplemental pre-design soil investigations, as identified in Table 6-1.*

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 to coordinate with the City of Pittsfield for the clearing of the sanitary sewer line beneath the Hill 78 Area.

- Prepare and submit plan to address the blockage within the storm sewer line located beneath the Hill 78 Area; and following EPA approval, mobilize Contractor to site to address blockage.

- Conduct additional video inspection of the storm and sanitary sewer lines within the Hill 78 Area after the lines have been cleared.

- Submit Supplemental Data Letter Report on supplemental pre-design soil investigations (due to EPA by September 19, 2006) (see Item 6.f below).*

e. General Progress/Unresolved Issues/Potential Schedule Impacts

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. As noted above, GE will submit a plan to address this blockage.

f. Proposed/Approved Work Plan Modifications

On August 28, 2006, EPA approved a revised submittal date of September 19, 2006 for the Supplemental Data Letter Report on supplemental pre-design soil investigations.

TABLE 6-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 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-DUP-2 (RAA9-J21)	8/17/06	4-6	Soil	SGS	VOC	
Supplemental Pre-Design Investigation	RAA9-I14	8/17/06	6-8	Soil	SGS	VOC, SVOC, Inorganics, PCDD/PCDF	
Supplemental Pre-Design Investigation	RAA9-I22	8/17/06	0-1	Soil	SGS	VOC	
Supplemental Pre-Design Investigation	RAA9-J21	8/17/06	4-6	Soil	SGS	VOC	
Supplemental Pre-Design Investigation	RAA9-J22	8/17/06	6-8	Soil	SGS	VOC	

Note:
1. Field duplicate sample locations are presented in parenthesis.

TABLE 6-2
PCB DATA RECEIVED DURING AUGUST 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-K4	6-15	6/23/2006	--	0.058	--	0.058
RAA9-NO5.5	1-6	6/23/2006	--	29	14	43

Notes:
1. These results have been revised by the laboratory and supersede those results reported in Table 6-6 of the July 2006 CD Monthly Report.
2. -- Sample results not revised by laboratory.

ITEM 7
PLANT AREA
UNKAMET BROOK AREA
(GECD170)
AUGUST 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.).*

- Conducted drum sampling of liquid and soil from the Building 51 catch basin, as identified in Table 7-1.

b. Sampling/Test Results Received

None

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.*

- Submit to EPA surveyed line for top-of-bank of Unkamet Brook south of Merrill Road.*

- Submit plan for collecting information related to channel flow in Unkamet Brook.*

e. General Progress/Unresolved Issues/Potential Schedule Impacts

None

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 AUGUST 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
Building 51 Catch Basin Liquid Drum Sampling	BLDG51-BASIN-LIQUID	8/16/06	Liquid	SGS	PCB, VOC, SVOC, Total Metals, Inorganics	
Building 51 Catch Basin Soil Drum Sampling	BLDG51-BASIN-SLUDGE	8/16/06	Soil	SGS	PCB, TCLP	

ITEM 8
FORMER OXBOW AREAS A & C
(GECD410)
AUGUST 2006

a. Activities Undertaken/Completed

- Initiated soil remediation actions.*
- Conducted Toxicity Characteristic Leaching Procedure (TCLP), PCB, grain size, pH, and total organic carbon (TOC) sampling of soil in loam pile on Parcel I8-23-6, as identified in Table 8-1.
- Conducted TCLP sampling of other soil within Parcels I8-23-5, I8-23-6, and I8-23-9, as identified in Table 8-1.
- Removed loam pile from Parcel I8-23-6.
- Conducted air monitoring for particulates and PCBs in connection with remediation actions, as identified in Table 8-1.*
- Based on discussions with EPA and the City of Pittsfield, GE agreed to remove certain additional soils from the drainage swale at the southern end of Oxbow A adjacent to previously approved excavations.
- Continued efforts to obtain access to Parcel I8-23-5 (owned by Exxon Mobil Oil Corporation) to conduct remediation activities.*

b. Sampling/Test Results Received

See attached tables, as well as attached test reports from H.C. Nutting Company.

c. Work Plans/Reports/Documents Submitted

None

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.*

ITEM 8
(cont'd)
FORMER OXBOW AREAS A & C
(GECD410)
AUGUST 2006

e. General Progress/Unresolved Issues/Potential Schedule Impacts

Awaiting access permission for remediation at Parcel I8-23-5.*

f. Proposed/Approved Work Plan Modifications

None

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

FORMER OXBOW AREAS A AND C
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS

Project Name	Field Sample ID	Sample Date	Depth (feet)	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Loam Pile Sampling	LP1-Q1-C1	7/31/06	NA	Soil	SGS	TCLP	8/4/06
Loam Pile Sampling	LP1-Q2-C1	7/31/06	NA	Soil	SGS	TCLP	8/4/06
Loam Pile Sampling	LP1-Q3-C1	7/28/06	NA	Soil	SGS	TCLP	8/1/06
Loam Pile Sampling	LP1-Q4-C1	7/28/06	NA	Soil	SGS	TCLP	8/1/06
Loam Pile Sampling	LP2-C1	8/1/06	NA	Soil	SGS	TCLP	8/8/06
Loam Pile Sampling	LP2-C2	8/1/06	NA	Soil	SGS	PCB	8/8/06
Loam Pile Sampling	LP3-C1	8/1/06	NA	Soil	SGS	TCLP	8/8/06
Loam Pile Sampling	LP3-C2	8/1/06	NA	Soil	SGS	PCB	8/8/06
Loam Pile Soil Sampling	I8-23-6-TOPSOILPILE-1	8/8/06	NA	Soil	SGS	Total Organic Matter, PH, Grainsize	8/30/06
Loam Pile Soil Sampling	I8-23-6-TOPSOILPILE-2	8/8/06	NA	Soil	SGS	Total Organic Matter, PH, Grainsize	8/30/06
Loam Pile Soil Sampling	I8-23-6-TOPSOILPILE-3	8/8/06	NA	Soil	SGS	Total Organic Matter, PH, Grainsize	8/30/06
Loam Pile Soil Sampling	I8-23-6-TOPSOILPILE-4	8/8/06	NA	Soil	SGS	Total Organic Matter, PH, Grainsize	8/30/06
Loam Pile Soil Sampling	I8-23-6-TOPSOILPILE-5	8/8/06	NA	Soil	SGS	Total Organic Matter, PH, Grainsize	8/30/06
Loam Pile Soil Sampling	I8-23-6-TOPSOILPILE-6	8/8/06	NA	Soil	SGS	Total Organic Matter, PH, Grainsize	8/30/06
Loam Pile Soil Sampling	I8-23-6-TOPSOILPILE-7	8/8/06	NA	Soil	SGS	Total Organic Matter, PH, Grainsize	8/30/06
Loam Pile Soil Sampling	I8-23-6-TOPSOILPILE-8	8/8/06	NA	Soil	SGS	Total Organic Matter, PH, Grainsize	8/30/06
Loam Pile Soil Sampling	I8-23-6-TOPSOILPILE-9	8/8/06	NA	Soil	SGS	Total Organic Matter, PH, Grainsize	8/30/06
Loam Pile Soil Sampling	I8-23-6-TOPSOILPILE-10	8/8/06	NA	Soil	SGS	Total Organic Matter, PH, Grainsize	8/30/06
Loam Pile Soil Sampling	I8-23-6-TOPSOILPILE-11	8/8/06	NA	Soil	SGS	Total Organic Matter, PH, Grainsize	8/30/06
Loam Pile Soil Sampling	I8-23-6-TOPSOILPILE-12	8/8/06	NA	Soil	SGS	Total Organic Matter, PH, Grainsize	8/30/06
Soil Sampling	TCLP-I8-23-5	8/10/06	0-1	Soil	SGS	TCLP - VOC, SVOC, Metals, Mercury, Pest, Herb	8/16/06
Soil Sampling	TCLP-I8-23-6	8/10/06	0-1	Soil	SGS	TCLP - Metals, Mercury, Pest, Herb	8/16/06
Soil Sampling	TCLP-I8-23-6-SWALE	8/16/06	0-1	Soil	SGS	TCLP - VOC, SVOC, Metals, Hg, Pest, Herb	8/31/06
Soil Sampling	TCLP-I8-23-9	8/10/06	0-1	Soil	SGS	TCLP - VOC, SVOC, Metals, Mercury, Pest, Herb	8/16/06
Ambient Air Particulate Matter Sampling	OX-1	8/1/06	NA	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	OX-2A	8/1/06	NA	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	OX-2B	8/1/06	NA	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Background Location	8/1/06	NA	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	OX-1	8/2/06	NA	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	OX-2A	8/2/06	NA	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	OX-2B	8/2/06	NA	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Background Location	8/2/06	NA	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	OX-1	8/3/06	NA	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	OX-2C	8/3/06	NA	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	OX-3	8/3/06	NA	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Background Location	8/3/06	NA	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	OX-1	8/4/06	NA	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	OX-2C	8/4/06	NA	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	OX-3	8/4/06	NA	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	Background Location	8/4/06	NA	Air	Berkshire Environmental	Particulate Matter	8/7/06
Ambient Air Particulate Matter Sampling	OX-1	8/7/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	OX-2C	8/7/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	OX-3	8/7/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06

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

FORMER OXBOW AREAS A AND C
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS

Project Name	Field Sample ID	Sample Date	Depth (feet)	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Ambient Air Particulate Matter Sampling	Background Location	8/7/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	OX-1	8/8/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	OX-2C	8/8/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	OX-3	8/8/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Background Location	8/8/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	OX-1	8/9/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	OX-2B	8/9/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	OX-3	8/9/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Background Location	8/9/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	OX-1	8/10/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	OX-2B	8/10/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	OX-3	8/10/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Background Location	8/10/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	OX-1	8/11/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	OX-2B	8/11/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	OX-3	8/11/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	Background Location	8/11/06	NA	Air	Berkshire Environmental	Particulate Matter	8/14/06
Ambient Air Particulate Matter Sampling	OX-1	8/14/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	OX-2B	8/14/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	OX-3	8/14/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Background Location	8/14/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	OX-1	8/15/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	OX-2B	8/15/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	OX-3	8/15/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Background Location	8/15/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	OX-1	8/16/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	OX-2B	8/16/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	OX-3	8/16/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Background Location	8/16/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	OX-1	8/17/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	OX-2B	8/17/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	OX-3	8/17/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Background Location	8/17/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	OX-1	8/18/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	OX-2B	8/18/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	OX-3	8/18/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	Background Location	8/18/06	NA	Air	Berkshire Environmental	Particulate Matter	8/21/06
Ambient Air Particulate Matter Sampling	OX-1	8/21/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	OX-2B	8/21/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	OX-3	8/21/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Background Location	8/21/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	OX-1	8/22/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	OX-2B	8/22/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	OX-3	8/22/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06

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

FORMER OXBOW AREAS A AND C
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS

Project Name	Field Sample ID	Sample Date	Depth (feet)	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Ambient Air Particulate Matter Sampling	Background Location	8/22/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	OX-1	8/23/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	OX-2B	8/23/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	OX-3	8/23/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Background Location	8/23/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	OX-1	8/24/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	OX-2B	8/24/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	OX-3	8/24/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Background Location	8/24/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	OX-1	8/25/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	OX-2B	8/25/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	OX-3	8/25/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Background Location	8/25/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	OX-1	8/28/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	OX-2B	8/28/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	OX-2C	8/28/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	OX-3	8/28/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Background Location	8/28/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	OX-1	8/29/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	OX-2C	8/29/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	OX-3	8/29/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Background Location	8/29/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	OX-1	8/30/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	OX-2C	8/30/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	OX-3	8/30/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Background Location	8/30/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	OX-1	8/31/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	OX-2C	8/31/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	OX-3	8/31/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Background Location	8/31/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
PCB Ambient Air Sampling	Field Blank	7/27 - 7/28/06	NA	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	OX-2A	7/27 - 7/28/06	NA	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	OX-1	7/27 - 7/28/06	NA	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	OX-1 (colocated)	7/27 - 7/28/06	NA	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	OX-3	7/27 - 7/28/06	NA	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	Background - East of Building 9B	7/27 - 7/28/06	NA	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	Field Blank	7/28 - 7/29/06	NA	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	OX-2A	7/28 - 7/29/06	NA	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	OX-1	7/28 - 7/29/06	NA	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	OX-1 (colocated)	7/28 - 7/29/06	NA	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	OX-3	7/28 - 7/29/06	NA	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	Background - East of Building 9B	7/28 - 7/29/06	NA	Air	Berkshire Environmental	PCB	8/9/06
PCB Ambient Air Sampling	Field Blank	8/03 - 8/04/06	NA	Air	Berkshire Environmental	PCB	8/10/06
PCB Ambient Air Sampling	OX-2C	8/03 - 8/04/06	NA	Air	Berkshire Environmental	PCB	8/10/06

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

FORMER OXBOW AREAS A AND C
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS

Project Name	Field Sample ID	Sample Date	Depth (feet)	Matrix	Laboratory	Analyses	Date Received by GE or BBL
PCB Ambient Air Sampling	OX-1	8/03 - 8/04/06	NA	Air	Berkshire Environmental	PCB	8/10/06
PCB Ambient Air Sampling	OX-1 (colocated)	8/03 - 8/04/06	NA	Air	Berkshire Environmental	PCB	8/10/06
PCB Ambient Air Sampling	OX-3	8/03 - 8/04/06	NA	Air	Berkshire Environmental	PCB	8/10/06
PCB Ambient Air Sampling	Background - East of Building 9B	8/03 - 8/04/06	NA	Air	Berkshire Environmental	PCB	8/10/06

TABLE 8-2
PCB DATA RECEIVED DURING AUGUST 2006

LOAM PILE SAMPLING
FORMER OXBOW AREAS A & C
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
LP2-C2	8/1/2006	ND(0.032)	ND(0.032)	0.25	0.25
LP3-C2	8/1/2006	ND(0.034)	ND(0.034)	0.050	0.050

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 8-3
TCLP DATA RECEIVED DURING AUGUST 2006

LOAM PILE SAMPLING
FORMER OXBOW AREAS A & C
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	TCLP Regulatory Limits	LP1-Q1-C1 7/31/2006	LP1-Q2-C1 7/31/2006	LP1-Q3-C1 7/28/2006	LP1-Q4-C1 7/28/2006	LP2-C1 8/1/2006	LP3-C1 8/1/2006
Volatile Organics							
1,1-Dichloroethene	0.7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Dichloroethane	0.5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Butanone	200	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.25)
Benzene	0.5	ND(0.010)	ND(0.010)	0.0051 J	ND(0.010)	0.0020 J	ND(0.010)
Carbon Tetrachloride	0.5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chlorobenzene	100	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chloroform	6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Tetrachloroethene	0.7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Trichloroethene	0.5	ND(0.010)	ND(0.010)	0.0038 J	ND(0.010)	0.0043 J	ND(0.010)
Vinyl Chloride	0.2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Semivolatile Organics							
1,4-Dichlorobenzene	7.5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4,5-Trichlorophenol	400	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4,6-Trichlorophenol	2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dinitrotoluene	0.13	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Cresol	200	ND(0.030)	ND(0.030)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorobenzene	0.13	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorobutadiene	0.5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachloroethane	3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Nitrobenzene	2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Pentachlorophenol	100	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Pyridine	5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Organochlorine Pesticides							
Endrin	0.02	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Gamma-BHC (Lindane)	0.4	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
Heptachlor	0.008	ND(0.0040)	ND(0.0040)	ND(0.0040)	ND(0.0040)	ND(0.0040)	ND(0.0040)
Heptachlor Epoxide	0.008	ND(0.0040)	ND(0.0040)	ND(0.0040)	ND(0.0040)	ND(0.0040)	ND(0.0040)
Methoxychlor	10	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Technical Chlordane	0.03	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)
Toxaphene	0.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Herbicides							
2,4,5-TP	1	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
2,4-D	10	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)
Inorganics							
Arsenic	5	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Barium	100	0.481 B	0.757 B	0.697 B	0.360 B	0.222 B	0.509 B
Cadmium	1	0.0110 B	0.00950 B	0.00730 B	0.00830 B	0.00260 B	ND(0.100)
Chromium	5	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)	0.00340 B	0.00430 B
Lead	5	0.0946 B	0.107	0.0518 B	0.0543 B	ND(0.100)	ND(0.100)
Mercury	0.2	ND(0.000570)	ND(0.000570)	ND(0.000570)	ND(0.000570)	0.000416 B	0.000269 B
Selenium	1	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Silver	5	ND(0.100)	ND(0.100)	0.00420 B	ND(0.100)	ND(0.100)	ND(0.100)

Notes:
1. Samples were 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:

Organics (volatiles, semivolatiles, pesticides, herbicides)
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 8-4
TCLP DATA RECEIVED DURING AUGUST 2006

SOIL SAMPLING
FORMER OXBOW AREAS A & C
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Sample Depth (Feet): / Date Collected:	TCLP Regulatory Limits	TCLP-I8-23-5 0-1 8/10/2006	TCLP-I8-23-6 0-1 8/10/2006	TCLP-I8-23-6-Swale 0-1 8/16/2006	TCLP-I8-23-9 0-1 8/10/2006
Volatile Organics					
1,1-Dichloroethene	0.7	ND(0.0010)	NA	ND(0.010)	ND(0.0010)
1,2-Dichloroethane	0.5	ND(0.0010)	NA	ND(0.010)	ND(0.0010)
2-Butanone	200	ND(0.025)	NA	0.014 J	ND(0.025)
Benzene	0.5	ND(0.0010)	NA	ND(0.010)	ND(0.0010)
Carbon Tetrachloride	0.5	ND(0.0010)	NA	ND(0.010)	ND(0.0010)
Chlorobenzene	100	ND(0.0010)	NA	ND(0.010)	ND(0.0010)
Chloroform	6	ND(0.0010)	NA	ND(0.010)	ND(0.0010)
Tetrachloroethene	0.7	ND(0.0010)	NA	ND(0.010)	ND(0.0010)
Trichloroethene	0.5	ND(0.0010)	NA	ND(0.010)	ND(0.0010)
Vinyl Chloride	0.2	ND(0.0010)	NA	ND(0.010)	ND(0.0010)
Semivolatile Organics					
1,4-Dichlorobenzene	7.5	ND(0.010)	NA	ND(0.010)	ND(0.010)
2,4,5-Trichlorophenol	400	ND(0.010)	NA	ND(0.010)	ND(0.010)
2,4,6-Trichlorophenol	2	ND(0.010)	NA	ND(0.010)	ND(0.010)
2,4-Dinitrotoluene	0.13	ND(0.010)	NA	ND(0.010)	ND(0.010)
Cresol	200	ND(0.030)	NA	0.013	ND(0.010)
Hexachlorobenzene	0.13	ND(0.010)	NA	ND(0.010)	ND(0.010)
Hexachlorobutadiene	0.5	ND(0.010)	NA	ND(0.010)	ND(0.010)
Hexachloroethane	3	ND(0.010)	NA	ND(0.010)	ND(0.010)
Nitrobenzene	2	ND(0.010)	NA	ND(0.010)	ND(0.010)
Pentachlorophenol	100	ND(0.050)	NA	ND(0.050)	ND(0.050)
Pyridine	5	ND(0.010)	NA	ND(0.010)	ND(0.010)
Organochlorine Pesticides					
Endrin	0.02	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Gamma-BHC (Lindane)	0.4	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
Heptachlor	0.008	ND(0.0040)	ND(0.0040)	ND(0.0040)	ND(0.0040)
Heptachlor Epoxide	0.008	ND(0.0040)	0.0010 J	ND(0.0040)	ND(0.0040)
Methoxychlor	10	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Technical Chlordane	0.03	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)
Toxaphene	0.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Herbicides					
2,4,5-TP	1	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
2,4-D	10	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)
Inorganics					
Arsenic	5	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Barium	100	0.596 B	0.731 B	0.200 B	0.678 B
Cadmium	1	0.00180 B	ND(0.100)	0.00460 B	0.00180 B
Chromium	5	ND(0.100)	0.00810 B	ND(0.100)	0.0202 B
Lead	5	0.0760 B	0.228	ND(0.100)	0.180
Mercury	0.2	0.000185 B	0.000205 B	0.0000670 B	0.000165 B
Selenium	1	0.115 B	0.148 B	ND(0.200)	0.137 B
Silver	5	0.0102 B	0.00990 B	ND(0.100)	0.0123 B

Notes:

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

Data Qualifiers:

Organics (volatiles, semivolatiles, pesticides, herbicides)

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 8-5
DATA RECEIVED DURING AUGUST 2006

LOAM PILE SOIL CHARACTERIZATION DATA
FORMER OXBOW AREAS A & C
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sample ID	Date Collected	Total Organic Matter (%)	pH (standard pH units)
I8-23-6-TOPSOILPILE-1	08/08/06	5.2	6.9
I8-23-6-TOPSOILPILE-2	08/08/06	4.0	6.7
I8-23-6-TOPSOILPILE-3	08/09/06	4.7	6.9
I8-23-6-TOPSOILPILE-4	08/09/06	4.9	6.9
I8-23-6-TOPSOILPILE-5	08/10/06	6.0	6.7
I8-23-6-TOPSOILPILE-6	08/10/06	5.7	6.4
I8-23-6-TOPSOILPILE-7	08/11/06	8.4	6.7
I8-23-6-TOPSOILPILE-8	08/11/06	6.6	6.5
I8-23-6-TOPSOILPILE-9	08/11/06	6.8	6.8
I8-23-6-TOPSOILPILE-10	08/11/06	6.5	6.0
I8-23-6-TOPSOILPILE-11	08/15/06	7.7	6.2
I8-23-6-TOPSOILPILE-12	08/15/06	6.3	5.8

Notes:
1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of Total Organic Matter and pH.

TABLE 8-6
AMBIENT AIR PCB DATA RECEIVED DURING AUGUST 2006

PCB AMBIENT AIR CONCENTRATIONS
FORMER OXBOW AREAS A & C
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Sampling Event Period	Date Analytical Results Received by BEC, Inc.	Field Blank (µg/PUF)	OX-2A (µg/m3)	OX-1 (µg/m3)	OX-1 (colocated) (µg/m3)	OX-3 (µg/m3)	Background - East of Building 9B (µg/m3)
7/27 - 7/28/06	8/7/06	ND (<0.10)	0.0038	0.0011	0.0016	0.0020	0.0024
7/28 - 7/29/06	8/7/06	ND (<0.10)	0.0043	0.0005	NA[1]	0.0013	0.0021
8/03 - 8/04/06	8/10/06	ND (<0.10)	0.0013	0.0014	0.0015	0.0036	0.0026
Notification Level		0.05	0.05	0.05	0.05	0.05	0.05

Notes:

ND - Non-Detect

NOTE: 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.

[1] OX-1 colocated sample from 07/28-07/29/06 aborted due to equipment failure.

Qualification Notes:

1. All samples collected from 07/27/06 to 07/29/06 were greater than 4°C (PUF temperature was 9.8°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 8-7
AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING AUGUST 2006[1]

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
08/01/06	OX-1	0.051*	0.048*	10:15	WSW
	OX-2A	0.056*		10:15	
	OX-2B	0.055*		10:15	
08/02/06	OX-1	0.044*	0.049*	11:15	WNW
	OX-2A	0.055*		11:15	
	OX-2B	0.049*		11:30	
08/03/06[3]	OX-1	0.033*	0.034*	11:15	WNW
	OX-2C	0.040*		10:45	
	OX-3	0.036*		11:00	
08/04/06	OX-1	0.009*	0.008*	11:45	NNW
	OX-2C	0.011*		12:00	
	OX-3	0.010*		11:45	
08/07/06	OX-1	0.035*	0.024*	11:00	SSW
	OX-2C	0.037*		11:00	
	OX-3	0.028*		10:45	
08/08/06	OX-1	0.013*	0.010*	11:00	NNW
	OX-2C	0.018*		11:00	
	OX-3	0.011*		11:00	
08/09/06[3]	OX-1	0.008*	0.006*	10:45	Calm
	OX-2B	0.010*		10:45	
	OX-3	0.007*		10:45	
08/10/06	OX-1	0.012*	0.012*	11:30	SSW
	OX-2B	0.018*		11:30	
	OX-3	0.016*		11:30	
08/11/06	OX-1	0.003*	0.004*	10:45	NNW
	OX-2B	0.017*		10:30	
	OX-3	0.006*		10:30	
08/14/06	OX-1	0.016*	0.011*	9:00[4]	SSW
	OX-2B	0.018*		11:45	
	OX-3	0.016*		12:00	
08/15/06	OX-1	0.015*	0.007*	11:30	WSW
	OX-2B	0.028*		11:30	
	OX-3	0.015*		11:30	
08/16/06	OX-1	0.009*	0.006*	11:00	NNW
	OX-2B	0.008*		4:10[4]	
	OX-3	0.009*		11:00	
08/17/06	OX-1	0.006*	0.005*	11:00	Calm
	OX-2B	0.011*		10:54	
	OX-3	0.007*		11:00	
08/18/06	OX-1	0.014*	0.005*	10:45	SSW
	OX-2B	0.012*		11:00	
	OX-3	0.012*		11:00	

TABLE 8-7
AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING AUGUST 2006[1]

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
08/21/06	OX-1	0.004*	0.005*	10:15	WNW
	OX-2B	0.009*		10:30	
	OX-3	0.004*		10:15	
08/22/06	OX-1	0.007*	0.006*	11:15	WNW
	OX-2B	0.011*		11:15	
	OX-3	0.007*		11:15	
08/23/06	OX-1	0.015*	0.012*	10:15	WNW
	OX-2B	0.014*		10:30	
	OX-3	0.007*		10:30	
08/24/06	OX-1	0.006*	0.005*	10:15	Calm
	OX-2B	0.007*		10:15	
	OX-3	0.007*		10:15	
08/25/06	OX-1	0.015*	0.031*	10:30	Calm
	OX-2B	0.014*		10:45	
	OX-3	0.011*		10:45	
08/28/06[3]	OX-1	0.021*	0.019*	10:30	Calm
	OX-2B	0.018*		4:15[5]	
	OX-2C	0.029*		6:15[5]	
	OX-3	0.037*		10:30	
08/29/06	OX-1	0.024*	0.019*	11:30	Calm
	OX-2C	0.015*		11:30	
	OX-3	0.009*		6:15[4]	
08/30/06	OX-1	0.010*	0.011*	10:30	NNW
	OX-2C	0.008*		10:30	
	OX-3	0.008*		10:00	
08/31/06	OX-1	0.008*	0.003*	9:45[4]	Variable
	OX-2C	0.004*		11:00	
	OX-3	0.004*		11:00	
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.

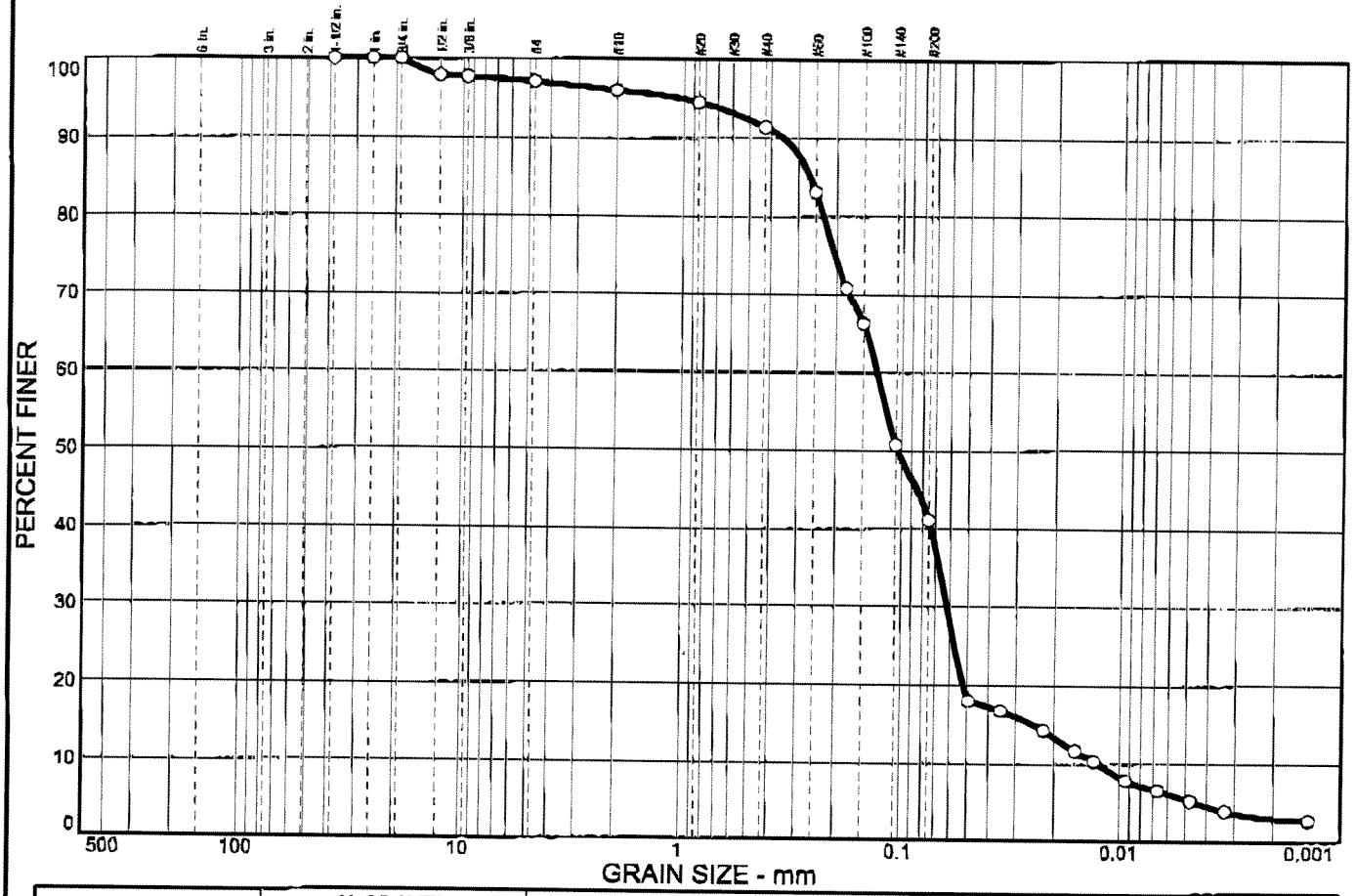
[2] The particulate monitors obtain real-time data. The sampling data were obtained by BEC on the sampling date.

[3] Monitoring locations changed due to progression of site activities.

[4] Sampling period was shortened due to instrument malfunction.

[5] Sampling period was shortened due to relocation of monitors.

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	2.9	1.1	4.6	50.3	35.7	5.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5 in.	100.0		
1 in.	100.0		
0.75 in.	100.0		
0.5 in.	97.9		
0.375 in.	97.7		
#4	97.1		
#10	96.0		
#20	94.5		
#40	91.4		
#60	83.2		
#80	70.8		
#100	66.3		
#140	50.7		
#200	41.1		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.265 D_{60}= 0.130 D_{50}= 0.104
D_{30}= 0.0618 D_{15}= 0.0252 D_{10}= 0.0126
C_u= 10.25 C_c= 2.33

Classification

USCS= AASHTO=

Remarks

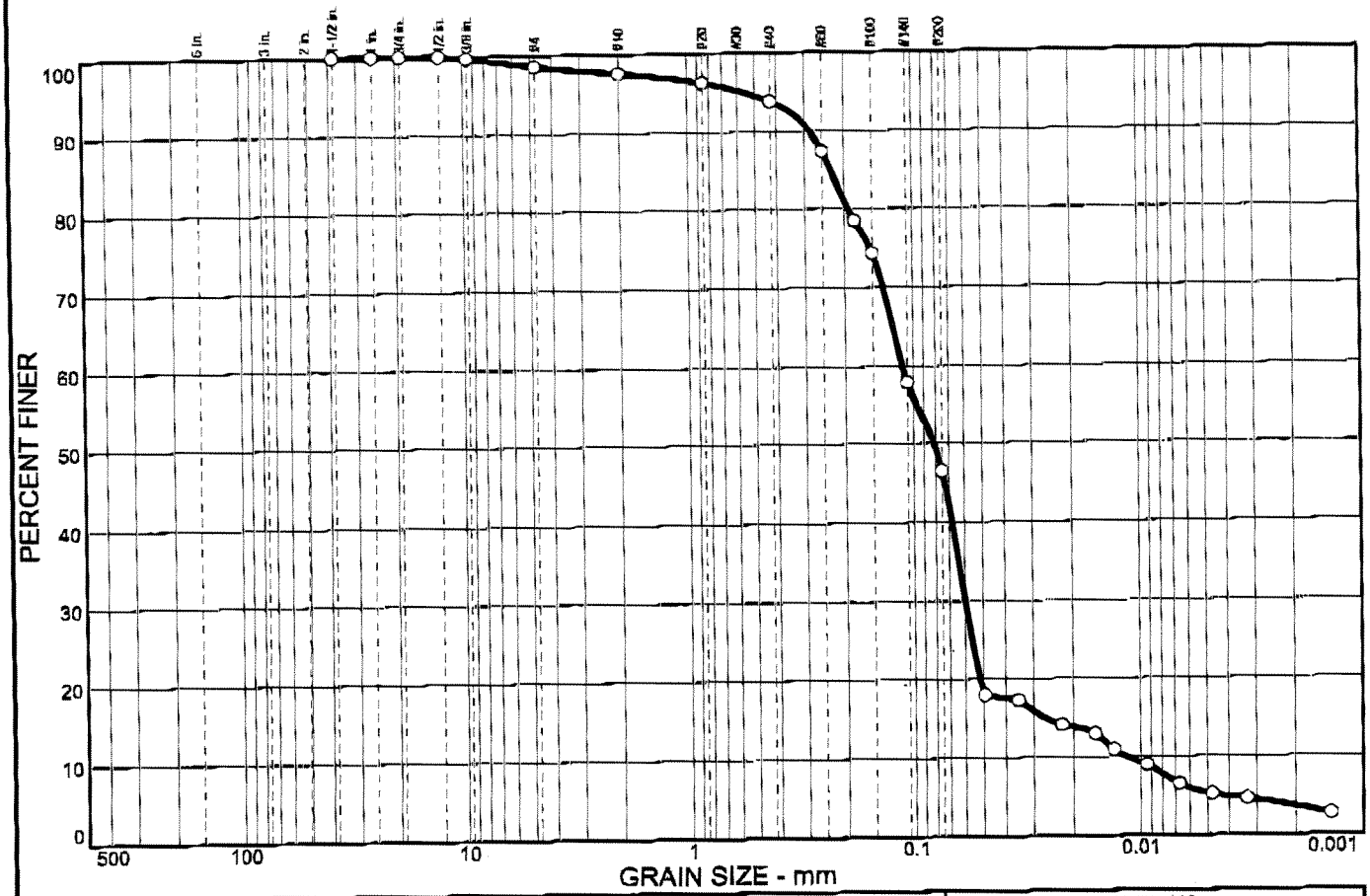
F.M.=0.39

Sample No.: 1 **Source of Sample:** 1 **Date:** 8-30-06
Location: **Elev./Depth:** NA

H. C. NUTTING COMPANY
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS
SINCE 1921

Client: SGS
Project: Soil Testing
Project No: 91882.008 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	1.4	1.0	3.8	47.3	41.2	5.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5 in.	100.0		
1 in.	100.0		
0.75 in.	100.0		
0.5 in.	100.0		
0.375 in.	99.7		
#4	98.6		
#10	97.6		
#20	96.3		
#40	93.8		
#60	87.4		
#80	78.5		
#100	74.4		
#140	57.9		
#200	46.5		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.229 D_{60}= 0.111 D_{50}= 0.0811
D_{30}= 0.0597 D_{15}= 0.0265 D_{10}= 0.0115
C_u= 9.66 C_c= 2.78

Classification

USCS= AASHTO=

Remarks

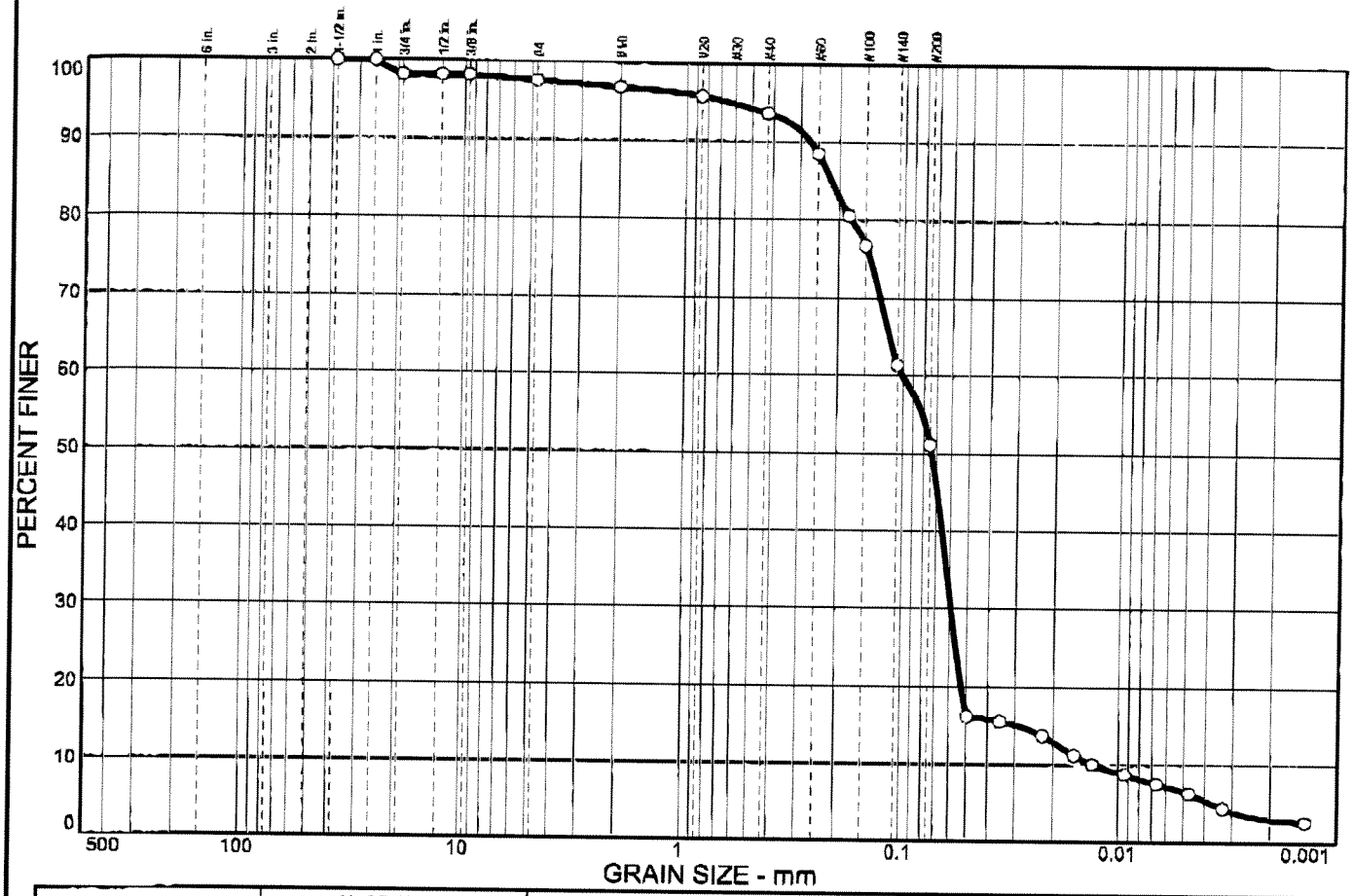
F.M.=0.27

Sample No.: 1 **Source of Sample:** 2 **Date:** 8-30-06
Location: **Elev./Depth:** NA

H. C. NUTTING COMPANY
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS
SINCE 1931

Client: SGS
Project: Soil Testing
Project No: 91882.008 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	1.8	0.6	0.8	3.2	42.5	44.6	6.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5 in.	100.0		
1 in.	100.0		
0.75 in.	98.2		
0.5 in.	98.2		
0.375 in.	98.2		
#4	97.6		
#10	96.8		
#20	95.7		
#40	93.6		
#60	88.5		
#80	80.6		
#100	76.8		
#140	61.4		
#200	51.1		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.217 D_{60}= 0.101 D_{50}= 0.0737
D_{30}= 0.0592 D_{15}= 0.0292 D_{10}= 0.0132
C_u= 7.65 C_c= 2.64

Classification

USCS= AASHTO=

Remarks

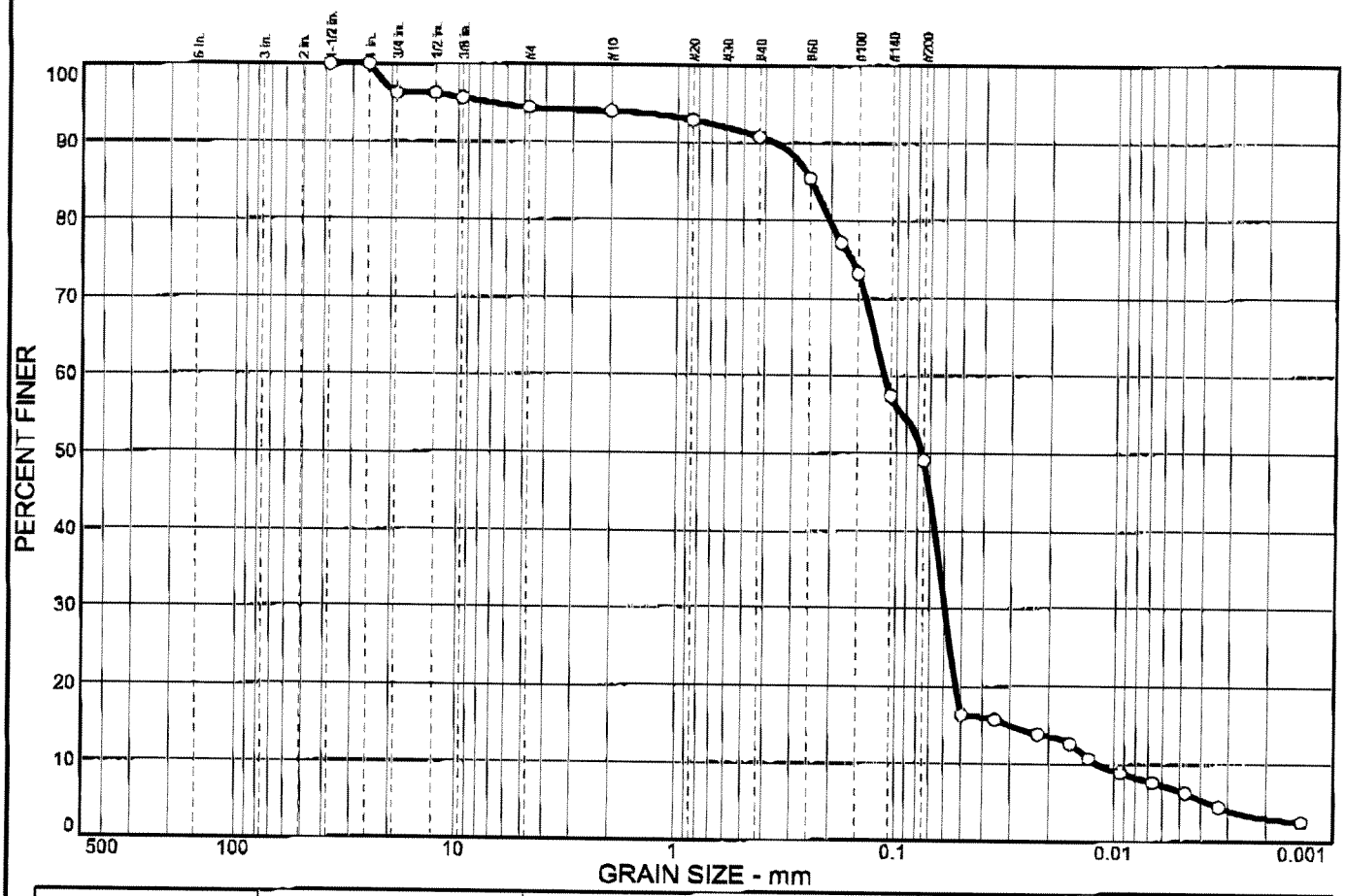
F.M.=0.29

Sample No.: 1 **Source of Sample:** 3 **Date:** 8-30-06
Location: **Elev./Depth:** NA

H. C. NUTTING COMPANY
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS
SINCE 1921

Client: SGS
Project: Soil Testing
Project No: 91882.008 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	3.8	1.8	0.4	3.2	41.7	42.6	6.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5 in.	100.0		
1 in.	100.0		
0.75 in.	96.2		
0.5 in.	96.2		
0.375 in.	95.6		
#4	94.4		
#10	94.0		
#20	92.9		
#40	90.8		
#60	85.4		
#80	77.2		
#100	73.2		
#140	57.4		
#200	49.1		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.246 D_{60}= 0.114 D_{50}= 0.0763
D_{30}= 0.0595 D_{15}= 0.0302 D_{10}= 0.0120
C_u= 9.45 C_c= 2.59

Classification

USCS= AASHTO=

Remarks

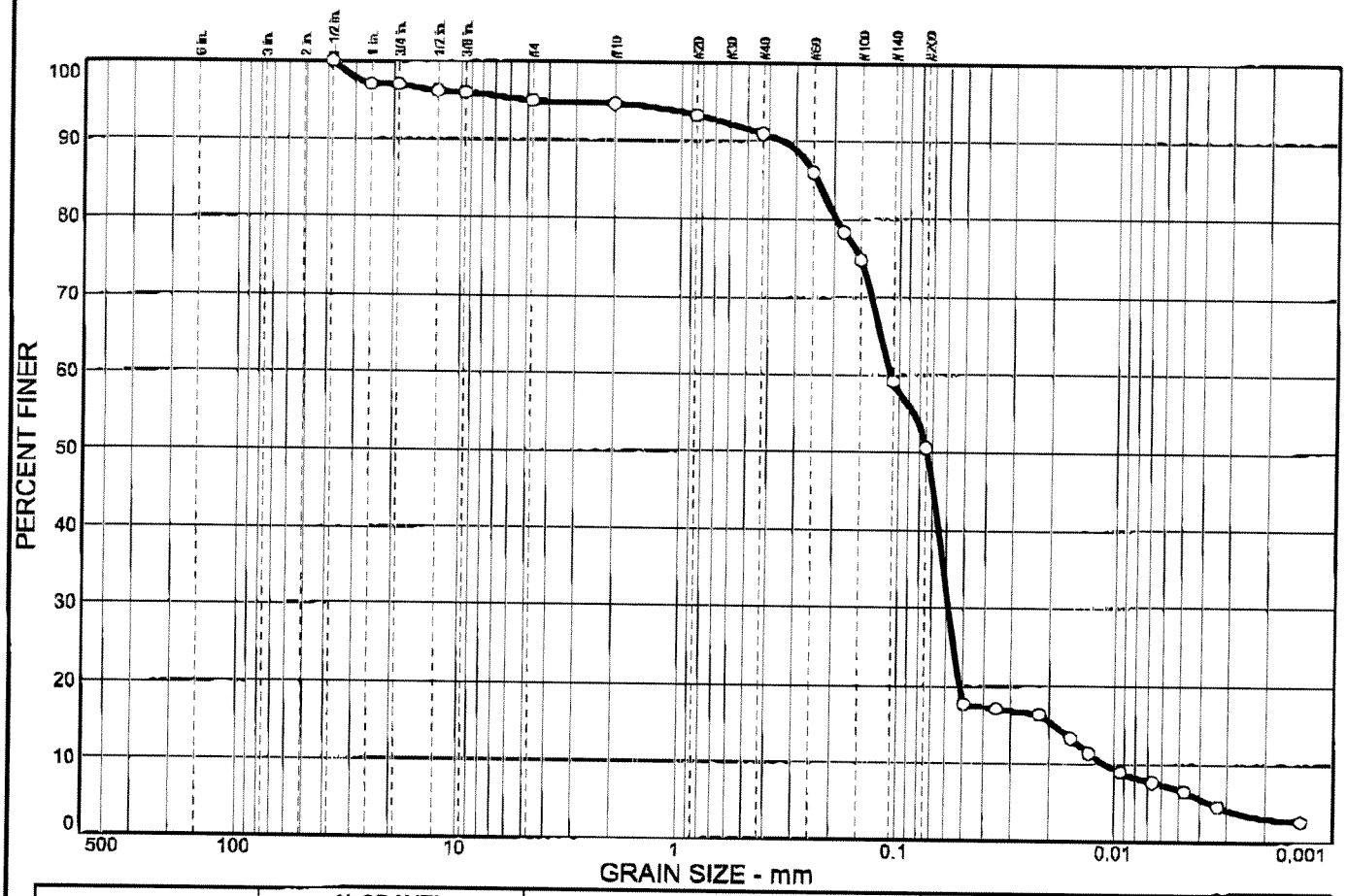
F.M.=0.41

Sample No.: 1 **Source of Sample:** 4 **Date:** 8-30-06
Location: **Elev./Depth:** NA

H. C. NUTTING COMPANY
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS
SINCE 1921

Client: SGS
Project: Soil Testing
Project No: 91882.008 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	3.0	2.0	0.3	3.7	40.4	44.0	6.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5 in.	100.0		
1 in.	97.0		
0.75 in.	97.0		
0.5 in.	96.2		
0.375 in.	96.0		
#4	95.0		
#10	94.7		
#20	93.3		
#40	91.0		
#60	86.0		
#80	78.3		
#100	74.8		
#140	59.2		
#200	50.6		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.239 D_{60}= 0.109 D_{50}= 0.0742
D_{30}= 0.0583 D_{15}= 0.0190 D_{10}= 0.0111
C_u= 9.79 C_c= 2.83

Classification

USCS= AASHTO=

Remarks

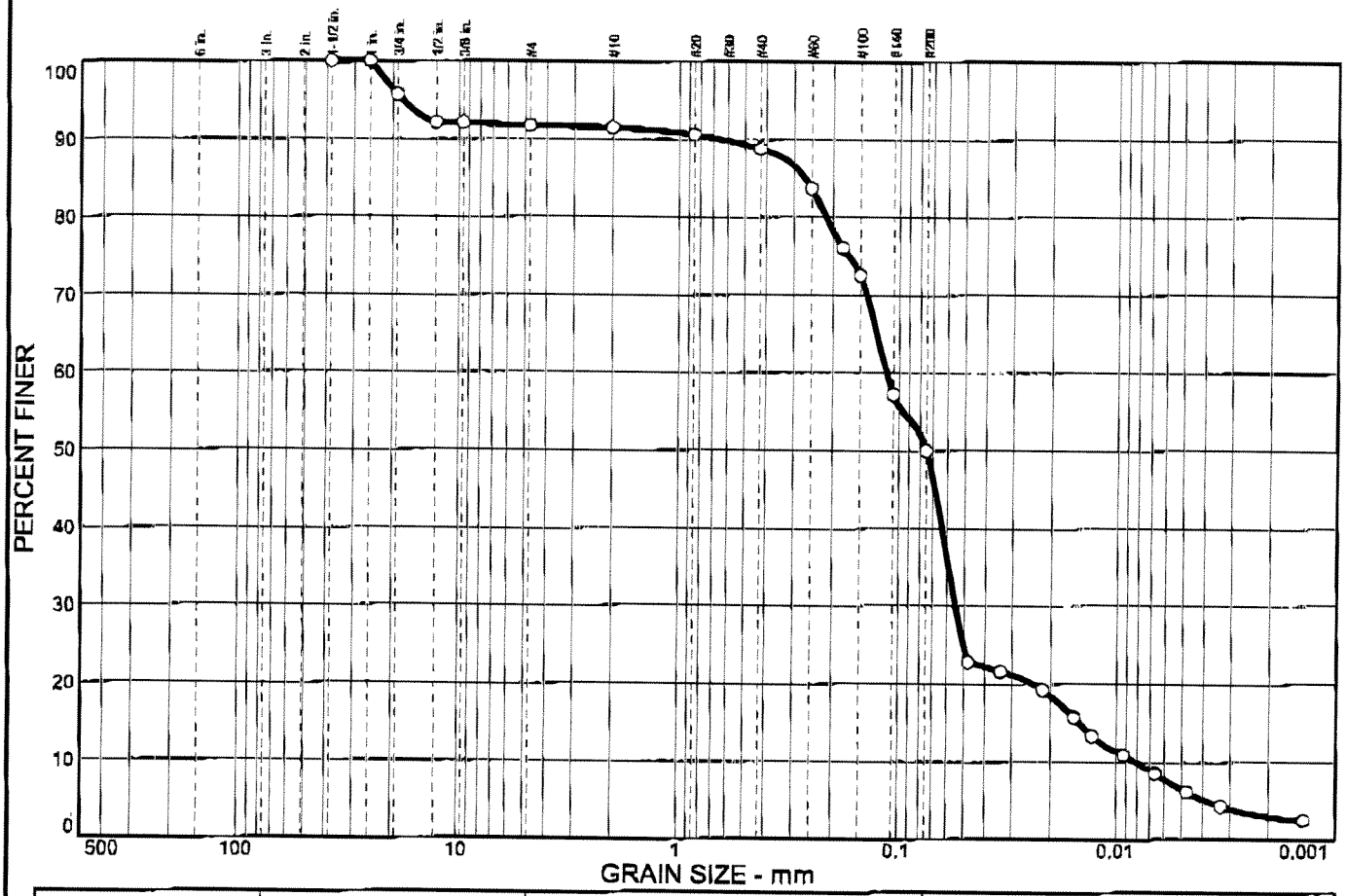
F.M.=0.37

Sample No.: 1 **Source of Sample:** 5 **Date:** 8-30-06
Location: **Elev./Depth:** NA

H. C. NUTTING COMPANY
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS
SINCE 1931

Client: SGS
Project: Soil Testing
Project No: 91882.008 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	4.4	3.8	0.3	2.7	38.8	43.5	6.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5 in.	100.0		
1 in.	100.0		
0.75 in.	95.6		
0.5 in.	92.1		
0.375 in.	92.1		
#4	91.8		
#10	91.5		
#20	90.6		
#40	88.8		
#60	83.8		
#80	76.1		
#100	72.5		
#140	57.3		
#200	50.0		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.266 D_{60}= 0.114 D_{50}= 0.0750
D_{30}= 0.0547 D_{15}= 0.0148 D_{10}= 0.0081
C_u= 14.09 C_c= 3.25

Classification

USCS= AASHTO=

Remarks

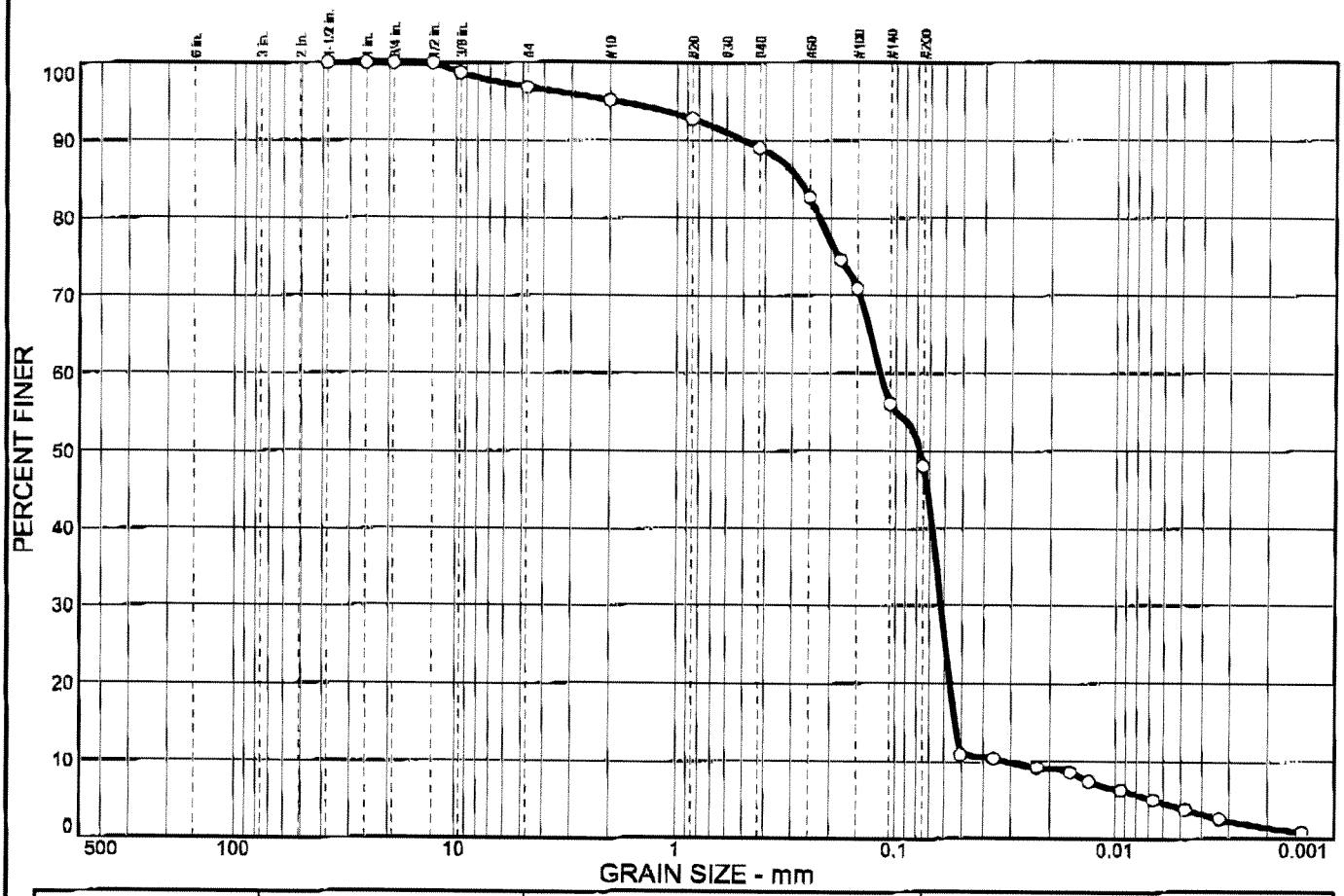
F.M.=0.48

Sample No.: 1 **Source of Sample:** 6 **Date:** 8-30-06
Location: **Elev./Depth:** NA

H. C. NUTTING COMPANY
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS
SINCE 1921

Client: SOS
Project: Soil Testing
Project No: 91882.008 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	3.2	1.7	6.1	40.9	44.1	4.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5 in.	100.0		
1 in.	100.0		
0.75 in.	100.0		
0.5 in.	100.0		
0.375 in.	98.7		
#4	96.8		
#10	95.1		
#20	92.7		
#40	89.0		
#60	82.7		
#80	74.6		
#100	70.9		
#140	56.1		
#200	48.1		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.281 D_{60}= 0.118 D_{50}= 0.0776
D_{30}= 0.0620 D_{15}= 0.0535 D_{10}= 0.0315
C_u= 3.74 C_c= 1.04

Classification

USCS= AASHTO=

Remarks

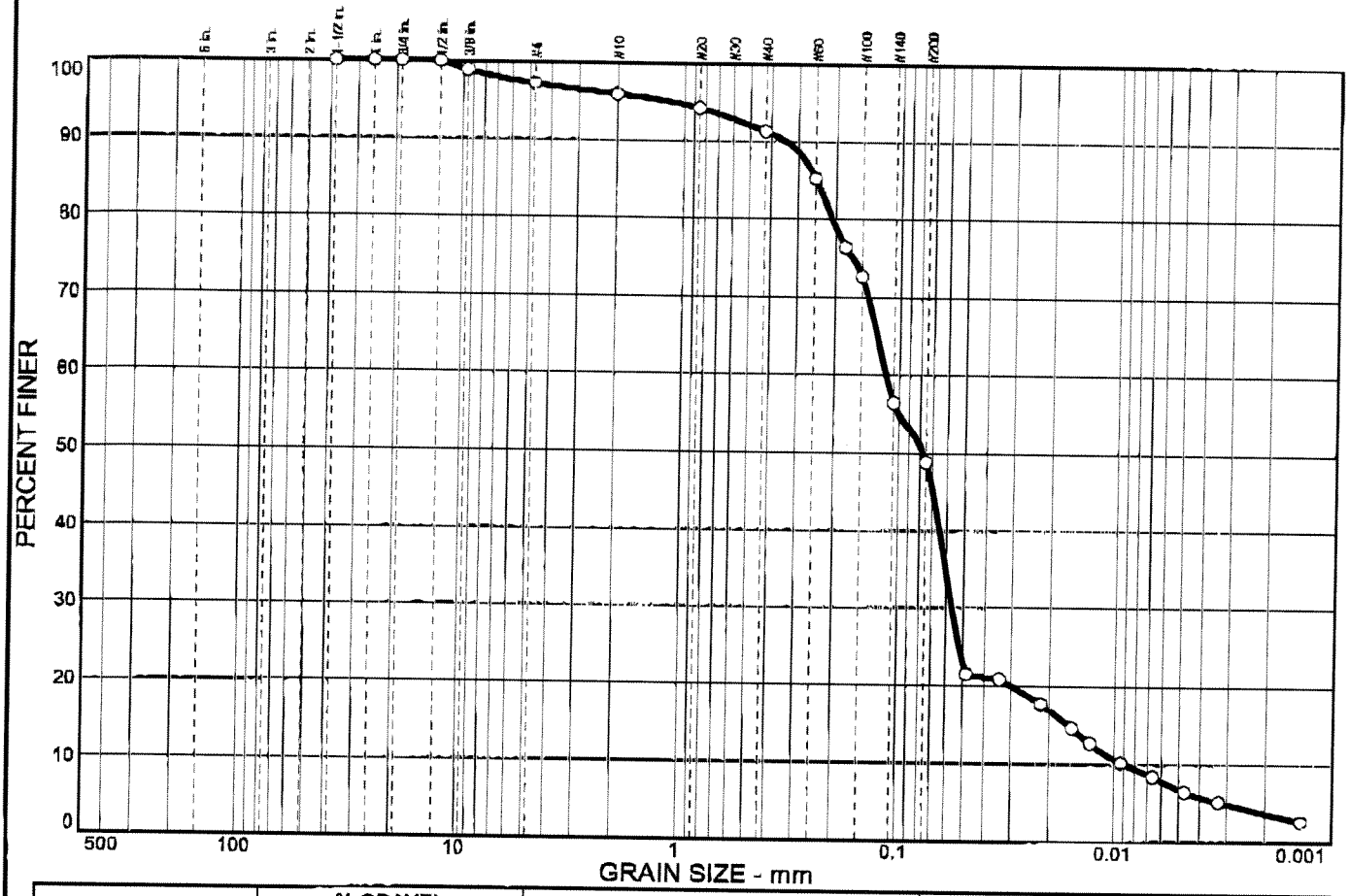
F.M.=0.34

Sample No.: 1 **Source of Sample:** 7 **Date:** 8-30-06
Location: **Elev./Depth:** NA

H. C. NUTTING COMPANY
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS
SINCE 1921

Client: SGS
Project: Soil Testing
Project No: 91882.008 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	2.8	1.3	4.6	42.5	42.0	6.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5 in.	100.0		
1 in.	100.0		
0.75 in.	100.0		
0.5 in.	100.0		
0.375 in.	98.9		
#4	97.2		
#10	95.9		
#20	94.2		
#40	91.3		
#60	85.3		
#80	76.5		
#100	72.7		
#140	56.5		
#200	48.8		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.247 D_{60}= 0.115 D_{50}= 0.0774
D_{30}= 0.0562 D_{15}= 0.0164 D_{10}= 0.0089
C_u= 12.89 C_c= 3.06

Classification

USCS= AASHTO=

Remarks

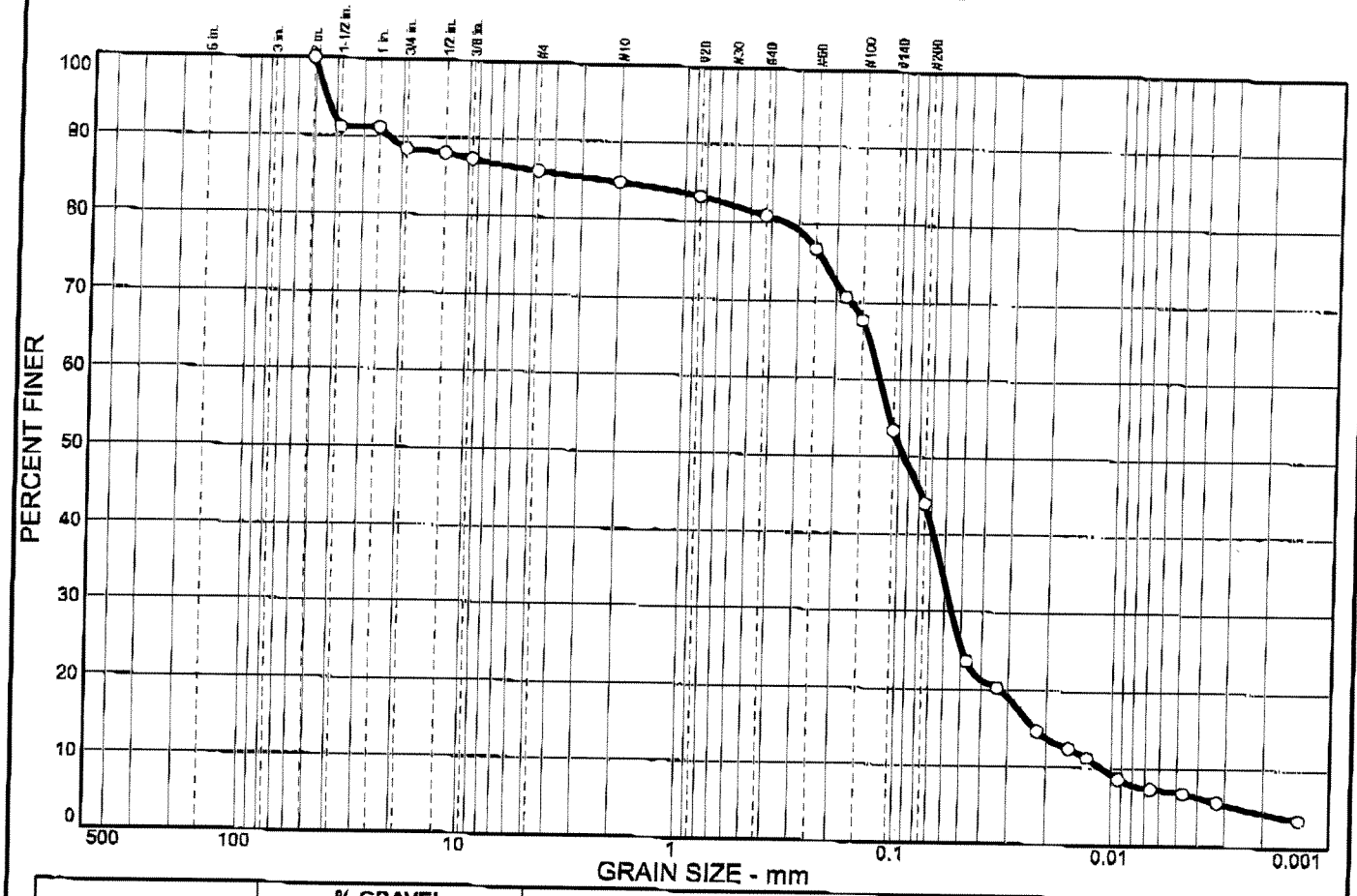
F.M.=0.31

Sample No.: 1 **Source of Sample:** 8 **Date:** 8-30-06
Location: **Elev./Depth:** NA

H. C. NUTTING COMPANY
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS
SINCE 1921

Client: SGS
Project: Soil Testing
Project No: 91882.008 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	11.6	2.4	1.2	3.9	37.0	36.9	7.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2.0 in.	100.0		
1.5 in.	91.2		
1.0 in.	91.2		
0.75 in.	88.4		
.50 in.	88.0		
.375 in.	87.3		
#4	86.0		
#10	84.8		
#20	83.2		
#40	80.9		
#60	76.8		
#80	70.6		
#100	67.6		
#140	53.4		
#200	43.9		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 2.32 D_{60}= 0.124 D_{50}= 0.0945
D_{30}= 0.0554 D_{15}= 0.0226 D_{10}= 0.0111
C_u= 11.16 C_c= 2.24

Classification

USCS= AASHTO=

Remarks

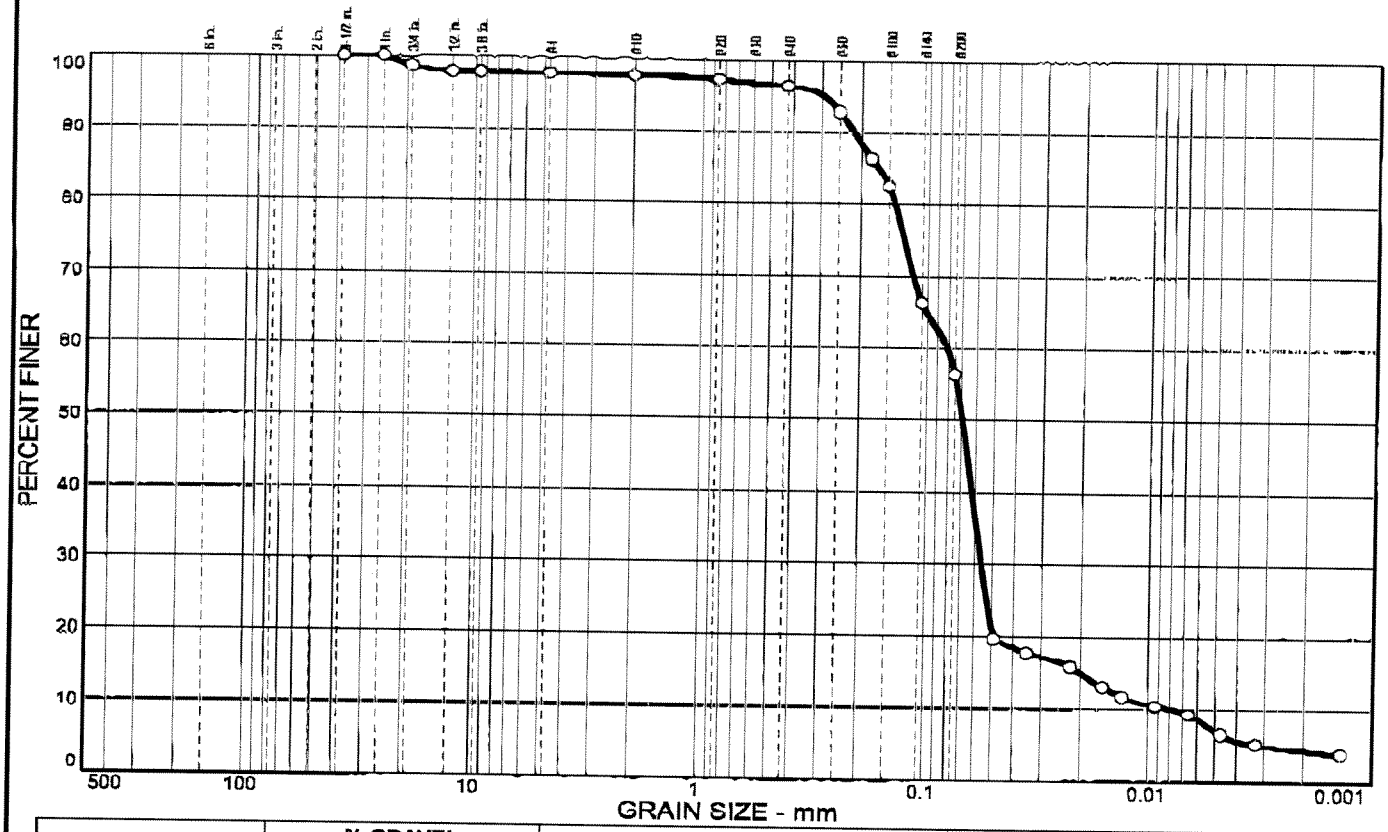
F.M.=0.80

Sample No.: 1 **Source of Sample:** 9 **Date:** 8-30-06
Location: **Elev./Depth:** NA

H. C. NUTTING COMPANY
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS
SINCE 1921

Client: SGS
Project: Soil Testing
Project No: 91882.008 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	1.4	0.8	0.2	1.4	39.9	49.2	7.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5 in.	100.0		
1 in.	100.0		
0.75 in.	98.6		
0.5 in.	97.9		
0.375 in.	97.9		
#4	97.8		
#10	97.6		
#20	97.1		
#40	96.2		
#60	92.9		
#80	86.3		
#100	82.6		
#140	66.2		
#200	56.3		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.166 D_{60}= 0.0813 D_{50}= 0.0689
D_{30}= 0.0559 D_{15}= 0.0201 D_{10}= 0.0077
C_u= 10.58 C_c= 5.02

Classification

USCS= AASHTO=

Remarks

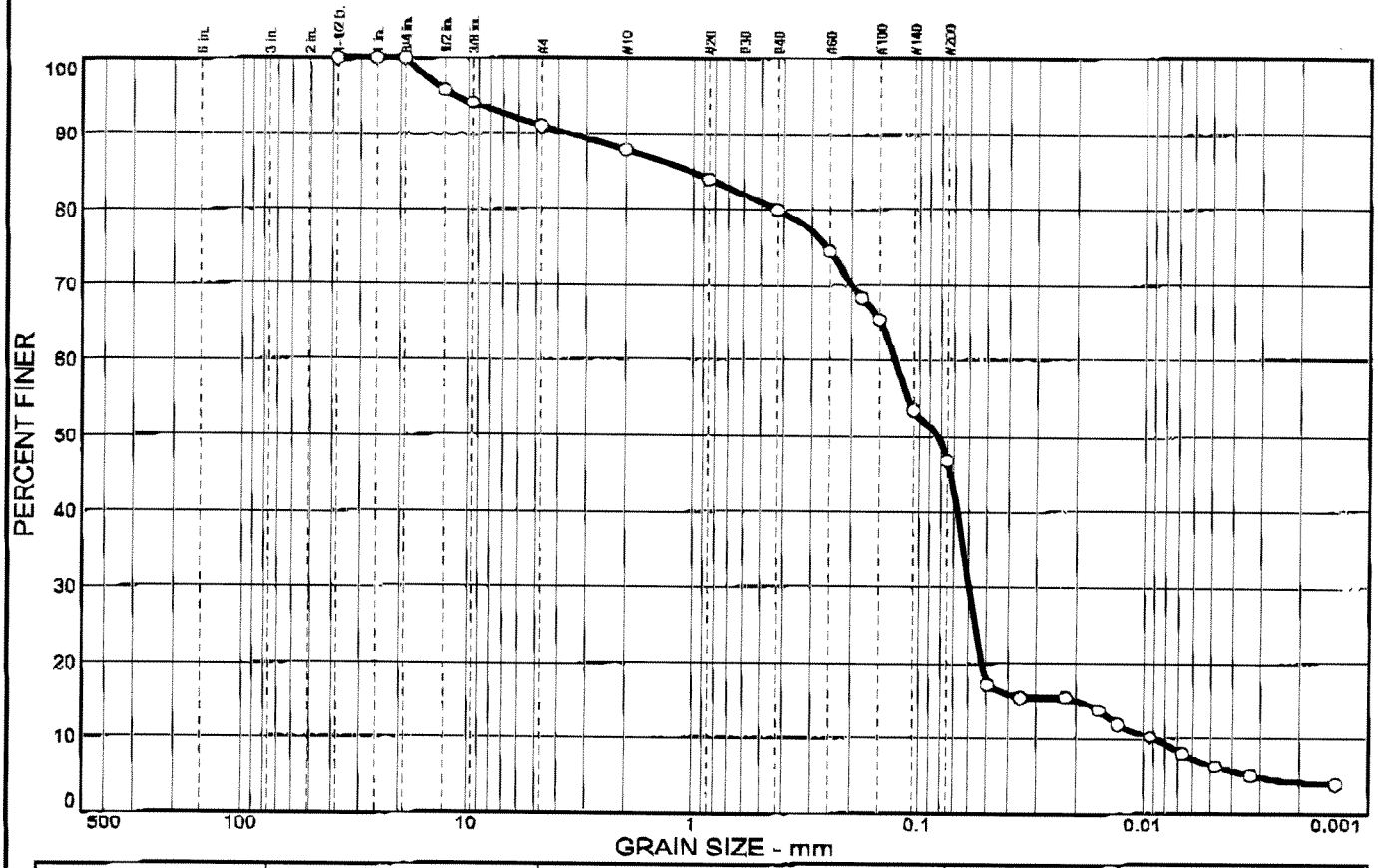
F.M.=0.23

Sample No.: 1 **Source of Sample:** 10 **Date:** 8-30-06
Location: **Elev./Depth:** NA

H. C. NUTTING COMPANY
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Client: SGS
Project: Soil Testing
Project No: 91882.008 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	9.0	3.2	7.9	33.1	40.3	6.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5 in.	100.0		
1 in.	100.0		
0.75 in.	100.0		
0.5 in.	95.7		
0.375 in.	94.0		
#4	91.0		
#10	87.8		
#20	84.1		
#40	79.9		
#60	74.5		
#80	68.2		
#100	65.3		
#140	53.4		
#200	46.8		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 1.02 D_{60}= 0.129 D_{50}= 0.0825
D_{30}= 0.0595 D_{15}= 0.0193 D_{10}= 0.0088
C_u= 14.53 C_c= 3.11

Classification

USCS= AASHTO=

Remarks

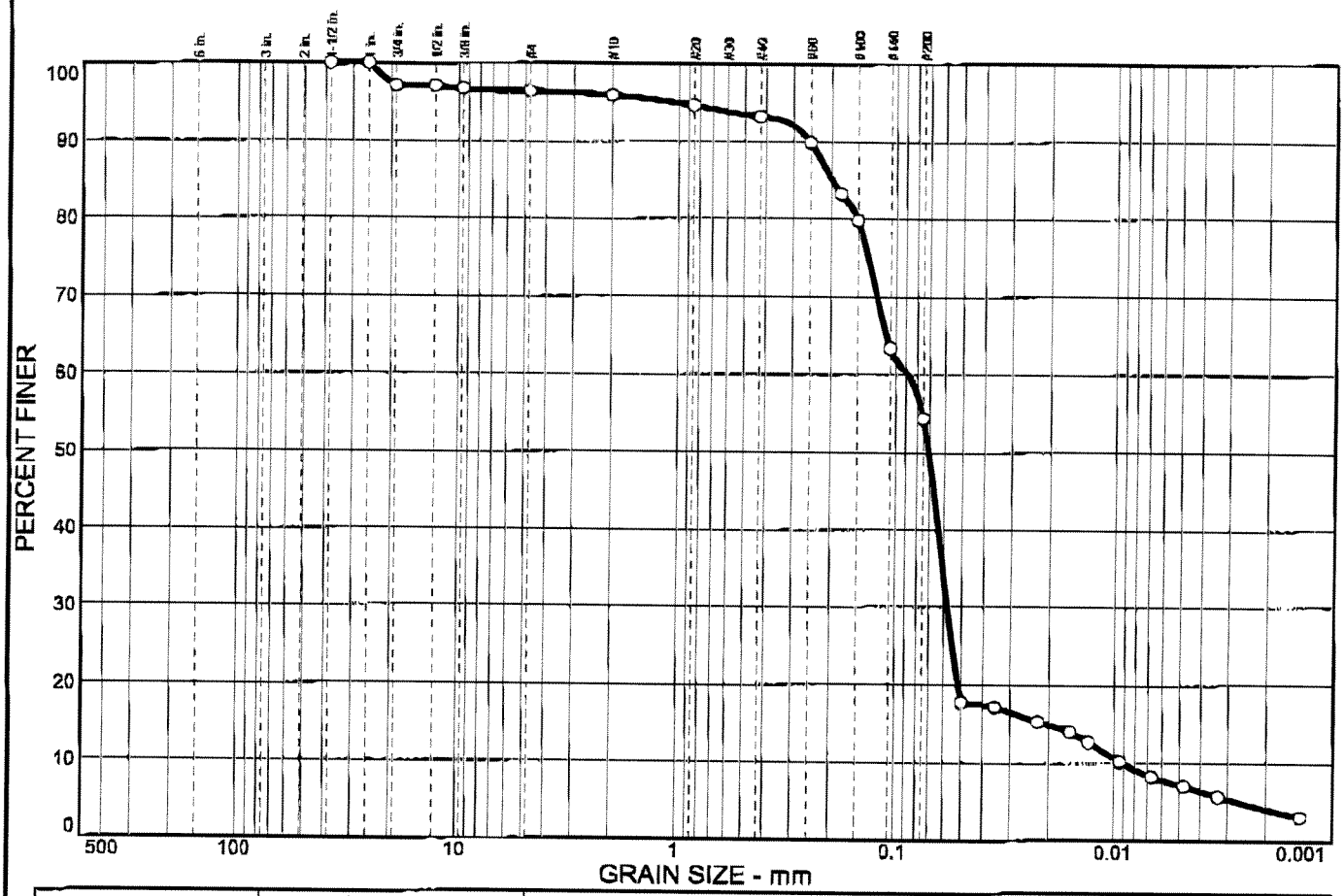
F.M.=0.50

Sample No.: 1 **Source of Sample:** 11 **Date:** 8-30-06
Location: **Elev./Depth:** NA

H. C. NUTTING COMPANY
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS
SINCE 1921

Client: SGS
Project: Soil Testing
Project No: 91882.008 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	2.9	0.7	0.5	2.7	38.8	47.2	7.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5 in.	100.0		
1 in.	100.0		
0.75 in.	97.1		
0.5 in.	97.1		
0.375 in.	96.7		
#4	96.4		
#10	95.9		
#20	94.6		
#40	93.2		
#60	89.9		
#80	83.3		
#100	79.8		
#140	63.4		
#200	54.4		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.197 D_{60}= 0.0881 D_{50}= 0.0706
D_{30}= 0.0577 D_{15}= 0.0205 D_{10}= 0.0091
C_U= 9.67 C_C= 4.15

Classification

USCS= AASHTO=

Remarks

F.M.=0.30

Sample No.: 1 **Source of Sample:** 12 **Date:** 8-30-06
Location: **Elev./Depth:** NA

H. C. NUTTING COMPANY
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS
SINCE 1921

Client: SGS
Project: Soil Testing
Project No: 91882.008 **Plate**

ANALYSIS FOR MOISTURE, ASH & ORGANICS CONTENT

ASTM D 2974-00

(Test Method A & C)

H.C. NUTTING COMPANY
APPALACHIAN REGION - 812 MORRIS STREET
CHARLESTON, WEST VIRGINIA 25301
(304) 344-0821
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Client: SGS Environmental Services

Project: Soil Testing

W.O. # 91882.008 Date: 08/28/2006

Boring No. TA6-HO-PO91 Sample No. 1

Depth Range: - Lab No. L0910

Description: Sampled 8-8-06

***Moisture Content** (% of O.D. Mass)*

Wet Weight - Sample + Tare (g.)	402.6	Weight of Water (g.)	28.6
Dry Weight - Sample + Tare (g.)	374.0	Weight of Solids (g.)	266.7
Tare Weight (g.)	107.3	Moisture Content (%)	10.7

Ash & Organics Content

Beginning Weight (g.)	151.40	Tare Weight (g.)	74.00
Ending Weight (g.)	147.40	Muffle Furnace Temperature (°C)	440
Ash Content (%)	94.8	Organic Content (%)	5.17

Boring No. TA6-HO-PO91 Sample No. 2

Depth Range: - Lab No. L0911

Description: Sampled 8-8-06

Moisture Content

Wet Weight - Sample + Tare (g.)	394.4	Weight of Water (g.)	70.8
Dry Weight - Sample + Tare (g.)	323.6	Weight of Solids (g.)	227.0
Tare Weight (g.)	96.6	Moisture Content (%)	31.2

Ash & Organics Content

Beginning Weight (g.)	155.90	Tare Weight (g.)	74.00
Ending Weight (g.)	152.60	Muffle Furnace Temperature (°C)	440
Ash Content (%)	96.0	Organic Content (%)	4.03

ANALYSIS FOR MOISTURE, ASH & ORGANICS CONTENT
ASTM D 2974-00
(Test Method A & C)

H.C. NUTTING COMPANY
APPALACHIAN REGION • 912 MORRIS STREET
CHARLESTON, WEST VIRGINIA 25301
(304) 344-0821
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Client: SGS Environmental Services

Project: Soil Testing

W.O. # 91882.008

Date: 08/28/2006

Boring No. TA6-HO-PO91

Sample No. 3

Depth Range: -

Lab No. L0912

Description: Sampled 8-9-06

Moisture Content (% of O.D. Mass)			
Wet Weight - Sample + Tare (g.)	396.3	Weight of Water (g.)	74.4
Dry Weight - Sample + Tare (g.)	321.9	Weight of Solids (g.)	233.0
Tare Weight (g.)	88.9	Moisture Content (%)	31.9
Ash & Organics Content			
Beginning Weight (g.)	150.70	Tare Weight (g.)	74.00
Ending Weight (g.)	147.10	Muffle Furnace Temperature (°C)	440
Ash Content (%)	95.3	Organic Content (%)	4.69

Boring No. TA6-HO-PO91

Sample No. 4

Depth Range: -

Lab No. L0913

Description: Sampled 8-9-06

Moisture Content			
Wet Weight - Sample + Tare (g.)	401.2	Weight of Water (g.)	57.7
Dry Weight - Sample + Tare (g.)	343.5	Weight of Solids (g.)	238.2
Tare Weight (g.)	105.3	Moisture Content (%)	24.2
Ash & Organics Content			
Beginning Weight (g.)	161.40	Tare Weight (g.)	74.00
Ending Weight (g.)	157.10	Muffle Furnace Temperature (°C)	440
Ash Content (%)	95.1	Organic Content (%)	4.92

ANALYSIS FOR MOISTURE, ASH & ORGANICS CONTENT

ASTM D 2974-00

(Test Method A & C)

H.C. NUTTING COMPANY
APPALACHIAN REGION - 912 MORRIS STREET
CHARLESTON, WEST VIRGINIA 25301
(304) 344-0821
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Client: SGS Environmental Services

Project: Soil Testing

W.O. # 91882.008 Date: 08/28/2006

Boring No. TA6-HO-PO91 Sample No. 5

Depth Range: - Lab No. L0914

Description: Sampled 8-10-06

Moisture Content *(% of O.D. Mass)*			
Wet Weight - Sample + Tare (g.)	391.2	Weight of Water (g.)	54.3
Dry Weight - Sample + Tare (g.)	336.9	Weight of Solids (g.)	244.8
Tare Weight (g.)	92.1	Moisture Content (%)	22.2
Ash & Organics Content			
Beginning Weight (g.)	155.90	Tare Weight (g.)	74.00
Ending Weight (g.)	151.00	Muffle Furnace Temperature (°C)	440
Ash Content (%)	94.0	Organic Content (%)	5.98

Boring No. TA6-HO-PO91 Sample No. 6

Depth Range: - Lab No. L0915

Description: Sampled 8-10-06

Moisture Content			
Wet Weight - Sample + Tare (g.)	405.3	Weight of Water (g.)	91.0
Dry Weight - Sample + Tare (g.)	314.3	Weight of Solids (g.)	216.7
Tare Weight (g.)	97.6	Moisture Content (%)	42.0
Ash & Organics Content			
Beginning Weight (g.)	156.50	Tare Weight (g.)	74.00
Ending Weight (g.)	151.80	Muffle Furnace Temperature (°C)	440
Ash Content (%)	94.3	Organic Content (%)	5.70

ANALYSIS FOR MOISTURE, ASH & ORGANICS CONTENT

ASTM D 2974-00

(Test Method A & C)

H.C. NUTTING COMPANY
APPALACHIAN REGION - 912 MORRIS STREET
CHARLESTON, WEST VIRGINIA 25301
(304) 344-0821
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Client: SGS Environmental Services

Project: Soil Testing

W.O. # 91882.008 Date: 08/28/2006

Boring No. TA6-HO-PO91 Sample No. 7

Depth Range: - Lab No. L0916

Description: Sampled 8-11-06

***Moisture Content** (% of O.D. Mass)*

Wet Weight - Sample + Tare (g.)	396.3	Weight of Water (g.)	80.4
Dry Weight - Sample + Tare (g.)	315.9	Weight of Solids (g.)	219.5
Tare Weight (g.)	96.4	Moisture Content (%)	36.6

Ash & Organics Content

Beginning Weight (g.)	149.10	Tare Weight (g.)	74.00
Ending Weight (g.)	142.80	Muffle Furnace Temperature (°C)	440
Ash Content (%)	91.6	Organic Content (%)	8.39

Boring No. TA6-HO-PO91 Sample No. 8

Depth Range: - Lab No. L0917

Description: Sampled 8-11-06

Moisture Content

Wet Weight - Sample + Tare (g.)	400.4	Weight of Water (g.)	78.8
Dry Weight - Sample + Tare (g.)	321.6	Weight of Solids (g.)	230.8
Tare Weight (g.)	90.8	Moisture Content (%)	34.1

Ash & Organics Content

Beginning Weight (g.)	160.20	Tare Weight (g.)	74.00
Ending Weight (g.)	154.50	Muffle Furnace Temperature (°C)	440
Ash Content (%)	93.4	Organic Content (%)	6.61

ANALYSIS FOR MOISTURE, ASH & ORGANICS CONTENT

ASTM D 2974-00

(Test Method A & C)

H.C. NUTTING COMPANY
APPALACHIAN REGION - 812 MORRIS STREET
CHARLESTON, WEST VIRGINIA 25301
(304) 344-0821
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Client: SGS Environmental Services

Project: Soil Testing

W.O. # 91862.008 Date: 08/28/2006

Boring No. TA6-HO-PO91 Sample No. 9

Depth Range: - Lab No. L0918

Description: Sampled 8-11-06

***Moisture Content** (% of O.D. Mass)*

Wet Weight - Sample + Tare (g.)	398.9	Weight of Water (g.)	66.8
Dry Weight - Sample + Tare (g.)	332.1	Weight of Solids (g.)	236.1
Tare Weight (g.)	96.0	Moisture Content (%)	28.3

Ash & Organics Content

Beginning Weight (g.)	171.30	Tare Weight (g.)	74.00
Ending Weight (g.)	164.70	Muffle Furnace Temperature (°C)	440
Ash Content (%)	93.2	Organic Content (%)	6.78

Boring No. TA6-HO-PO91 Sample No. 10

Depth Range: - Lab No. L0919

Description: Sampled 8-11-06

Moisture Content

Wet Weight - Sample + Tare (g.)	414.8	Weight of Water (g.)	52.2
Dry Weight - Sample + Tare (g.)	362.6	Weight of Solids (g.)	254.1
Tare Weight (g.)	108.5	Moisture Content (%)	20.5

Ash & Organics Content

Beginning Weight (g.)	178.70	Tare Weight (g.)	74.00
Ending Weight (g.)	171.90	Muffle Furnace Temperature (°C)	440
Ash Content (%)	93.5	Organic Content (%)	6.49

ANALYSIS FOR MOISTURE, ASH & ORGANICS CONTENT

ASTM D 2974-00

(Test Method A & C)

H.C. NUTTING COMPANY
APPALACHIAN REGION - 812 MORRIS STREET
CHARLESTON, WEST VIRGINIA 25301
(304) 344-0821
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Client: SGS Environmental Services

Project: Soil Testing

W.O. # 91882.008 Date: 08/28/2006

Boring No. TA6-HO-PO91 Sample No. 11

Depth Range: - Lab No. L0920

Description: Sampled 8-15-06

***Moisture Content** (% of O.D. Mass)*

Wet Weight - Sample + Tare (g.)	399.5	Weight of Water (g.)	58.1
Dry Weight - Sample + Tare (g.)	341.4	Weight of Solids (g.)	249.0
Tare Weight (g.)	92.4	Moisture Content (%)	23.3

Ash & Organics Content

Beginning Weight (g.)	178.60	Tare Weight (g.)	74.00
Ending Weight (g.)	170.60	Muffle Furnace Temperature (°C)	440
Ash Content (%)	92.4	Organic Content (%)	7.65

Boring No. TA6-HO-PO91 Sample No. 12

Depth Range: - Lab No. L0921

Description: Sampled 8-15-06

Moisture Content

Wet Weight - Sample + Tare (g.)	396.7	Weight of Water (g.)	44.1
Dry Weight - Sample + Tare (g.)	352.6	Weight of Solids (g.)	256.2
Tare Weight (g.)	96.4	Moisture Content (%)	17.2

Ash & Organics Content

Beginning Weight (g.)	185.40	Tare Weight (g.)	74.00
Ending Weight (g.)	178.40	Muffle Furnace Temperature (°C)	440
Ash Content (%)	93.7	Organic Content (%)	6.28

SOIL pH TEST REPORT
ASTM D4972 (Method A)

H.C. NUTTING COMPANY
APPALACHIAN REGION - 912 MORRIS STREET
CHARLESTON, WEST VIRGINIA 25301
(304) 344-0821
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Client: SGS Environmental Services

Date: 08/28/2006

Project: Soil Testing - TA6-HO-PO91

WO No. 91882.008

Lab No.	Sample No.	Test No.	pH Reading / Distilled Water	pH Reading / CaCl
L0910	001	1	6.88	6.35
		2	6.84	6.37
		Difference	0.04	-0.02
		pH	**6.86**	**6.36**
L0911	002	1	6.66	6.36
		2	6.64	6.45
		Difference	0.02	-0.09
		pH	**6.65**	**6.41**
L0912	003	1	6.88	6.48
		2	6.89	6.5
		Difference	-0.01	-0.02
		pH	**6.89**	**6.49**
L0913	004	1	6.90	6.51
		2	6.90	6.31
		Difference	0	0.2
		pH	**6.90**	**6.41**

Tolerance of 2 test results
+/- 0.065 Distilled water
+/- 0.389 CaCl

Technician: J.Smith

SOIL pH TEST REPORT
ASTM D4972 (Method A)

H.C. NUTTING COMPANY
APPALACHIAN REGION - 912 MORRIS STREET
CHARLESTON, WEST VIRGINIA 25301
(304) 344-0821
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Client: SGS Environmental Services

Date: 08/28/2006

Project: Soil Testing - TA6-HO-PO91

WO No. 91882.008

Lab No.	Sample No.	Test No.	pH Reading / Distilled Water	pH Reading / CaCl
L0914	005	1	6.71	6.61
		2	6.75	6.62
		Difference	-0.04	-0.01
		pH	**6.73**	**6.62**
L0915	006	1	6.41	6.30
		2	6.36	6.41
		Difference	0.05	-0.11
		pH	**6.39**	**6.36**
L0916	007	1	6.65	6.10
		2	6.68	6.28
		Difference	-0.03	-0.18
		pH	**6.67**	**6.19**
L0917	008	1	6.52	6.20
		2	6.56	6.46
		Difference	-0.04	-0.26
		pH	**6.54**	**6.33**

Tolerence of 2 test results
+/- 0.065 Distilled water
+/- 0.389 CaCl

Technician: J.Smith

SOIL pH TEST REPORT
ASTM D4972
(Method A)

H.C. NUTTING COMPANY
APPALACHIAN REGION - 912 MORRIS STREET
CHARLESTON, WEST VIRGINIA 25301
(304) 344-0821
EMPLOYEE OWNED
GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS

Client: SGS Environmental Services

Date: 08/28/2006

Project: Soil Testing - TA6-HO-PO91

WO No. 91882.008

Lab No.	Sample No.	Test No.	pH Reading / Distilled Water	pH Reading / CaCl
L0918	009	1	6.82	6.50
		2	6.80	6.59
		Difference	0.02	-0.09
		pH	**6.81**	**6.55**
L0919	010	1	6.02	5.71
		2	6.01	5.85
		Difference	0.01	-0.14
		pH	**6.02**	**5.78**
L0920	011	1	6.21	6.14
		2	6.25	6.19
		Difference	-0.04	-0.05
		pH	**6.23**	**6.17**
L0921	012	1	5.76	5.63
		2	5.74	5.6
		Difference	0.02	0.03
		pH	**5.75**	**5.62**

Tolerance of 2 test results
+/- 0.065 Distilled water
+/- 0.389 CaCl

Technician: J.Smith

ITEM 9
LYMAN STREET AREA
(GECD430)
AUGUST 2006

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

a. Activities Undertaken/Completed

- Initiated soil remediation actions at properties west of Lyman Street.
- Conducted TCLP sampling of soil from the five general excavation areas, as identified in Table 9-1.
- Conducted air monitoring for particulates in connection with remediation activities, as identified in Table 9-1.
- Conducted drum sampling at Building 78 of well decommissioning materials, as identified in Table 9-1.

b. Sampling/Test Results Received

See attached tables.

c. Work Plans/Reports/Documents Submitted

None

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

- Complete 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

None

TABLE 9-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 2006

LYMAN STREET AREA
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS

Project Name	Field Sample ID	Sample Date	Depth (feet)	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Drum Sampling	BLDG78-F2818-0823	8/23/06	NA	Soil	SGS	PCB, TCLP	
Drum Sampling	BLDG78-F2918-0823	8/23/06	NA	Liquid	SGS	PCB, VOC, SVOC, Total Metals	
Soil Sampling	TCLP-I9-4-14	8/17/06	0-3	Soil	SGS	TCLP- Metals, Pest, Herb	8/24/06
Soil Sampling	TCLP-I9-4-19	8/17/06	0-1	Soil	SGS	TCLP- Metals, Pest, Herb	8/24/06
Soil Sampling	TCLP-I9-4-19-25-203	8/17/06	0-3	Soil	SGS	TCLP- Metals, Pest, Herb	8/24/06
Soil Sampling	TCLP-I9-4-201-NORTH	8/18/06	0-1	Soil	SGS	TCLP- Metals, Pest, Herb	8/24/06
Soil Sampling	TCLP-I9-4-201-SOUTH	8/18/06	0-6	Soil	SGS	TCLP- Metals, Pest, Herb	8/24/06
Ambient Air Particulate Matter Sampling	LY-1	8/23/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	LY-2B	8/23/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	LY-4	8/23/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Background Location	8/23/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	LY-1	8/24/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	LY-2B	8/24/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	LY-4	8/24/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Background Location	8/24/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	LY-1	8/25/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	LY-2B	8/25/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	LY-4	8/25/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	Background Location	8/25/06	NA	Air	Berkshire Environmental	Particulate Matter	8/29/06
Ambient Air Particulate Matter Sampling	LY-1	8/28/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	LY-2B	8/28/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	LY-4	8/28/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Background Location	8/28/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	LY-1	8/29/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	LY-2B	8/29/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	LY-4	8/29/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Background Location	8/29/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	LY-1	8/30/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	LY-2B	8/30/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	LY-4	8/30/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Background Location	8/30/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	LY-1	8/31/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	LY-2B	8/31/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	LY-4	8/31/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06
Ambient Air Particulate Matter Sampling	Background Location	8/31/06	NA	Air	Berkshire Environmental	Particulate Matter	9/1/06

TABLE 9-2
TCLP DATA RECEIVED DURING AUGUST 2006

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

Parameter / Sample ID: / Sample Depth (Feet): / Date Collected:	TCLP Regulatory Limits	TCLP-I9-4-14 0-3 8/17/2006	TCLP-I9-4-19 0-1 8/17/2006	TCLP-I9-4-19-25-203 0-3 8/17/2006	TCLP-I9-4-201-North 0-1 8/18/2006	TCLP-I9-4-201-South 0-6 8/18/2006
Organochlorine Pesticides						
Endrin	0.02	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Gamma-BHC (Lindane)	0.4	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
Heptachlor	0.008	ND(0.0040)	ND(0.0040)	ND(0.0040)	ND(0.0040)	ND(0.0040)
Heptachlor Epoxide	0.008	ND(0.0040)	ND(0.0040)	ND(0.0040)	ND(0.0040)	ND(0.0040)
Methoxychlor	10	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Technical Chlordane	0.03	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.0030)
Toxaphene	0.5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Herbicides						
2,4,5-TP	1	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
2,4-D	10	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)	ND(0.40)
Inorganics						
Arsenic	5	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Barium	100	0.766 B	0.683 B	1.46 B	0.568 B	1.17 B
Cadmium	1	0.00860 B	0.00930 B	0.00770 B	0.0115 B	0.00880 B
Chromium	5	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)	0.0109 B
Lead	5	0.0913 B	15.8	0.237	17.8	0.570
Mercury	0.2	0.000121 B	0.000127 B	0.000144 B	0.000168 B	0.000131 B
Selenium	1	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Silver	5	0.00510 B	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)

Notes:
1. Samples were 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.
3. Shading indicates that value exceeds the TCLP Regulatory Limits.

Data Qualifiers:

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

TABLE 9-3
AMBIENT AIR PARTICULATE MATTER DATA RECEIVED DURING AUGUST 2006[1]

PARTICULATE AMBIENT AIR CONCENTRATIONS
LYMAN STREET AREA
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
08/23/06	LY-1	0.019*	0.012*	10:45	WNW
	LY-2B	0.010*		4:45[3]	
	LY-4	0.014*		10:45	
08/24/06	LY-1	0.007*	0.005*	10:15	Calm
	LY-2B	0.008*		10:45	
	LY-4	0.008*		11:00	
08/25/06	LY-1	0.015*	0.031*	10:45	Calm
	LY-2B	0.017*		11:00	
	LY-4	0.013*		10:45	
08/28/06	LY-1	0.028*	0.019*	10:30	Calm
	LY-2B	0.027*		10:45	
	LY-4	0.016*		10:45	
08/29/06	LY-1	0.023*	0.019*	10:45	Calm
	LY-2B	0.024*		10:45	
	LY-4	0.014*		10:45	
08/30/06	LY-1	0.008*	0.011*	11:00	NNW
	LY-2B	0.009*		10:30	
	LY-4	0.006*		10:45	
08/31/06	LY-1	0.012*	0.003*	11:00	Variable
	LY-2B	0.005*		11:00	
	LY-4	0.004*		11:00	
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 Berkshire Environmental Consultants, Inc. on the sampling date.

[4] Sampling period was shortened due to sampler location change.

ITEM 10
NEWELL STREET AREA I
(GECD440)
AUGUST 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

Completed restoration activities at Parcels J9-23-19, -20, and -21.

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, as well as to holders of encumbrances on those properties, regarding the Conditional Solutions.
- Conduct semi-annual inspection of engineered barriers and restored and re-vegetated areas.
- Continue preparation of 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
(GECD450)
AUGUST 2006

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

a. Activities Undertaken/Completed

- Continued shipment of soil excavated from Parcel J9-23-8 to the selected disposal facility located in Port Arthur, Texas.
- Conducted wipe sampling of additional gondola railcars to support the shipment of soil excavated from Parcel J9-23-8 to the selected disposal facility located in Port Arthur, Texas.
- Completed paving work associated with installation of access road and turn-around area.
- Completed assembly of automated DNAPL recovery system for Newell Street Area II, and activated system on August 30, 2006 (see also Item 21.a).
- Conducted drum sampling at Building 78 of water from well development 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.

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 AUGUST 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
Building 78 Drum Sampling	B0523-WATER-1	8/24/06	Water	SGS	PCB, VOC, SVOC, Total Metals	
Building 78 Drum Sampling	B0546-WATER-1	8/24/06	Water	SGS	PCB, VOC, SVOC, Total Metals	
Building 78 Drum Sampling	B1459-WATER-1	8/24/06	Water	SGS	PCB, VOC, SVOC, Total Metals	
Building 78 Drum Sampling	B1460-WATER-1	8/24/06	Water	SGS	PCB, VOC, SVOC, Total Metals	
Building 78 Drum Sampling	GMA1-27-WATER-1	8/24/06	Water	SGS	PCB, VOC, SVOC, Total Metals	
Gondola Wipe Sampling	CEFX-33490-W1R	8/24/06	Wipe	SGS	PCB	8/28/06
Gondola Wipe Sampling	CEFX-33490-W2R	8/24/06	Wipe	SGS	PCB	8/28/06
Gondola Wipe Sampling	CEFX-33490-W3R	8/24/06	Wipe	SGS	PCB	8/28/06
Gondola Wipe Sampling	CEFX-33490-W4R	8/24/06	Wipe	SGS	PCB	8/28/06
Gondola Wipe Sampling	CEFX-33490-W5R	8/24/06	Wipe	SGS	PCB	8/28/06
Gondola Wipe Sampling	MHFX-5735-W1R	8/22/06	Wipe	SGS	PCB	8/25/06
Gondola Wipe Sampling	MHFX-5735-W2R	8/22/06	Wipe	SGS	PCB	8/25/06
Gondola Wipe Sampling	MHFX-5735-W3R	8/22/06	Wipe	SGS	PCB	8/25/06
Gondola Wipe Sampling	MHFX-5735-W4R	8/22/06	Wipe	SGS	PCB	8/25/06
Gondola Wipe Sampling	MHFX-5735-W5R	8/22/06	Wipe	SGS	PCB	8/25/06
Newell Street Decon Water Sampling	Newell-Decon-1	7/10/06	Water	SGS	PCB, VOC, SVOC, Total Metals	8/2/06
Sampling Newell St. Well N2SC-01IR	N2SC-01IR-1	7/13/06	Water	SGS	PCB, VOC, SVOC, Total Metals	8/1/06
Sampling Newell St. Well N2SC-03IR	N2SC-03IR-1	7/13/06	Water	SGS	PCB, VOC, SVOC, Total Metals	8/1/06
Soil Sampling	NS-15R-Soil-1	7/6/06	Soil	SGS	PCB, TCLP	8/1/06

TABLE 11-2
PCB DATA RECEIVED DURING AUGUST 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
NS-15R-Soil-1	7/6/2006	ND(400)	520	ND(400)	520

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 11-3 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 AUGUST 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	NS-15R-Soil-1 7/6/2006
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	ND(0.010)
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	0.022
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	0.557 B
Cadmium	1	ND(0.100)
Chromium	5	0.00570 B
Lead	5	0.203
Mercury	0.2	ND(0.000570)
Selenium	1	ND(0.200)
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 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:

Inorganics

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

TABLE 11-4
WATER SAMPLE DATA RECEIVED DURING AUGUST 2006

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

Parameter / Sample ID: / Date Collected:	N2SC-01IR-1 07/13/06	N2SC-03IR-1 07/13/06
Volatile Organics		
Chloroform	ND(0.64)	1.2 J
Ethylbenzene	0.15 J	ND(1.6)
Methylene Chloride	0.22 J	0.51 J
Toluene	0.81	0.82 J
Trichloroethene	6.6	42
Vinyl Chloride	0.27 J	ND(1.6)
PCBs-Unfiltered		
Aroclor-1254	58	430
Total PCBs	58	430
Semivolatile Organics		
1,2,4-Trichlorobenzene	6.2	11
1,2-Dichlorobenzene	0.14 J	0.18 J
1,4-Dichlorobenzene	0.84 J	0.49 J
Naphthalene	ND(1.0)	0.17 J
Inorganics-Unfiltered		
Arsenic	ND(0.0100)	0.0108
Barium	0.556	0.577
Cadmium	0.000890 B	0.00554 B
Chromium	0.0440	0.0355
Lead	0.184	1.57

Notes:
1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of PCBs, volatiles, semivolatiles and metals.
2. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.
3. Only those constituents detected in one or more samples are summarized.

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 11-5
WATER SAMPLE DATA RECEIVED DURING AUGUST 2006

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

Parameter / Sample ID: / Date Collected:	Newell-Decon-1 07/10/06
Volatile Organics	
None Detected	--
PCBs-Unfiltered	
Aroclor-1254	4.9
Total PCBs	4.9
Semivolatile Organics	
2-Methylnaphthalene	1.2 J
bis(2-Ethylhexyl)phthalate	1.7 J
Naphthalene	32
Inorganics-Unfiltered	
Arsenic	0.0308
Barium	0.617
Cadmium	0.0118
Chromium	0.0711
Lead	0.783
Mercury	0.000319
Selenium	0.0109 B
Silver	0.000510 B

Notes:

1. Sample was collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of PCBs, volatiles, semivolatiles, and metals.
2. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.
3. -- Indicates that all constituents for the parameter group were not detected.
4. Only detected constituents are summarized.

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 11-6
PCB DATA RECEIVED DURING AUGUST 2006

GONDOLA WIPE SAMPLING
NEWELL STREET AREA II
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in µg/100cm^2)

Sample ID	Date Collected	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs
CEFX-33490-W1R	8/24/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
CEFX-33490-W2R	8/24/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
CEFX-33490-W3R	8/24/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
CEFX-33490-W4R	8/24/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
CEFX-33490-W5R	8/24/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
MHFX-5735-W1R	8/22/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
MHFX-5735-W2R	8/22/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
MHFX-5735-W3R	8/22/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
MHFX-5735-W4R	8/22/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
MHFX-5735-W5R	8/22/2006	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	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.

ITEM 12
FORMER OXBOW AREAS J & K
(GECD420)
AUGUST 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

None

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

- Plant trees and shrubs in remediated areas.
- 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

None

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

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

a. Activities Undertaken/Completed

- Monitored the three seepage meters in the river in support of upcoming evaluation and report on total organic carbon (TOC) content in the isolation layer.

- Performed the 2006 inspection of aquatic habitat enhancement structures and armor stone (August 23, 2006).

- Performed the 2006 inspection of restored bank vegetation (August 24, 2006).

b. Sampling/Test Results Received

See attached table.

c. Work Plans/Reports/Documents Submitted

None

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

- Complete seepage meter monitoring.

- Prepare report presenting results of seepage meter study and evaluation of TOC content in isolation layer (to be submitted in Fall 2006).

- Prepare and submit report on inspection of restored bank vegetation

- Prepare and submit report on inspection of aquatic habitat enhancement structures and armor stone.

- Revise and resubmit report on July 2006 bank erosion inspection.

- Perform repairs related to erosion inspection.

ITEM 13
(cont'd)
HOUSATONIC RIVER AREA
UPPER ½ MILE REACH
(GECD800)
AUGUST 2006

e. General Progress/Unresolved Issues/Potential Schedule Impacts

As noted above, GE plans to submit a report evaluating TOC content in the isolation layer in Fall 2006. The Final Completion Report for Upper ½ Mile Reach Removal Action will be submitted following EPA review and approval of that report.

f. Proposed/Approved Work Plan Modifications

None

TABLE 13-1
SEEPAGE METER MONITORING
UPPER 1/2-MILE REACH OF THE HOUSATONIC RIVER

CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
August 2006

Location	Start Time	Starting Volume in Collection Bag (mL)	Time of Collection	End Volume in Collection Bag (mL)
Seepage-1	7/31/06 9:59 AM	200	8/2/06 9:13 AM	205
Seepage-1	8/2/06 9:13 AM	200	8/9/06 10:02 AM	206
Seepage-1	8/9/06 10:02 AM	200	8/21/06 10:43 AM	199
Seepage-2	7/31/06 10:33 AM	200	8/2/06 9:34 AM	203
Seepage-2	8/2/06 9:34 AM	200	8/9/06 10:30 AM	210
Seepage-2	8/9/06 10:30 AM	200	8/21/06 11:20 AM	--
Seepage-3	7/31/06 11:02 AM	200	8/2/06 10:05 AM	202
Seepage-3	8/2/06 10:05 AM	200	8/9/06 11:01 AM	203
Seepage-3	8/9/06 11:01 AM	200	8/21/06 12:04 PM	207

Note:

1. On 8/21/200, the water collection bag at Seepage-2 was observed to be leaking; a likely result of an abrasion on the bag caused by rubbing against the protective plastic cage; as such, on that date data at this location was not recorded.

ITEM 14
HOUSATONIC RIVER AREA
1½ MILE REACH
(GECD820)
AUGUST 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 August 23, 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 AUGUST 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	8/14/06
Monthly Water Column Sampling	Location-4	8/23/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	Location-6A	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	8/14/06
Monthly Water Column Sampling	Location-6A	8/23/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	

TABLE 14-2
SAMPLE DATA RECEIVED DURING AUGUST 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	07/26/06	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	0.230	1.20	0.0019
LOCATION-6A	Pomeroy Ave. Bridge	07/26/06	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	0.210	1.50	0.0024

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)
AUGUST 2006

a. Activities Undertaken/Completed

On August 23, 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 August 23, 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.

b. Sampling/Test Results

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.
- Prepare design drawings for installation of replacement gate at Rising Pond Dam.*
- Submit plan to EPA and Lead Administrative Trustee (LAT) for placement of riprap in an area adjacent to Woods Pond Dam.*

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

None

TABLE 15-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 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)	8/23/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	HR-D1 (Location-12)	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	8/14/06
Monthly Water Column Sampling	Location-1	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	8/14/06
Monthly Water Column Sampling	Location-1	8/23/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	Location-10	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	8/14/06
Monthly Water Column Sampling	Location-10	8/23/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	Location-12	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	8/14/06
Monthly Water Column Sampling	Location-12	8/23/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	Location-13	8/23/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	Location-13	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	8/14/06
Monthly Water Column Sampling	Location-2	8/23/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	Location-2	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	8/14/06
Monthly Water Column Sampling	Location-7	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	8/14/06
Monthly Water Column Sampling	Location-7	8/23/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	Location-9	8/23/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	
Monthly Water Column Sampling	Location-9	7/26/06	Water	NEA	PCB, TSS, POC, Chlorophyll-A	8/14/06

Note:
1. Field duplicate sample locations are presented in parenthesis.

TABLE 15-2
SAMPLE DATA RECEIVED DURING AUGUST 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	07/26/06	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	0.364	1.60	0.00090
LOCATION-2	Newell Street Bridge	07/26/06	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	0.214	ND(1.00)	0.0014
LOCATION-7	Holmes Road Bridge	07/26/06	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	ND(0.0000220)	0.291	ND(1.00)	0.0021
LOCATION-9	New Lenox Road Bridge	07/26/06	ND(0.0000220)	0.0000290 PE	0.0000580 AF	0.0000410 AG	0.000128	0.280	2.40	0.0023
LOCATION-10	Headwaters of Woods Pond	07/26/06	ND(0.0000220)	0.0000450 PE	0.0000780 AF	0.0000530 AG	0.000176	0.445	4.40	0.0028
LOCATION-12	Schweitzer Bridge	07/26/06 07/26/06	ND(0.0000220) [ND(0.0000220)]	0.0000340 PE [0.0000370 PE]	0.0000590 AF [0.0000690 AF]	0.0000400 AG [0.0000500 AG]	0.000133 [0.000156]	0.499 [0.530]	2.90 [3.40]	0.0053 [0.0065]
LOCATION-13	Division Street Bridge	07/26/06	ND(0.0000220)	ND(0.0000220)	0.0000260 AF	ND(0.0000220)	0.0000260	0.448	4.40	0.0020

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.
4. 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 (GECD710 AND GECD720)
AUGUST 2006

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

a. Activities Undertaken/Completed

- Completed final restoration activities at certain Phase 3 floodplain properties.
- Continued restoration activities at Phase 4 floodplain properties.

b. Sampling/Test Results Received

None

c. Work Plans/Reports/Documents Submitted

None

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

- Complete restoration activities at Phase 4 floodplain properties.
- Conduct inspections of backfilled/restored areas at Phase 3 and Phase 4 floodplain properties.
- Submit Supplemental Investigation Plan for certain Phase 2 floodplain properties.

e. General Progress/Unresolved Issues/Potential Schedule Impacts

EPA has advised GE that, instead of submitting separate Final Completion Reports for the Phase 1 and 2 floodplain properties, the Phase 3 floodplain properties, and the Phase 4 floodplain properties, GE should submit Final Completion Reports for the 1½ Mile Floodplain Residential Properties and the 1½ Mile Floodplain Non-Residential Properties, including all phases together.

f. Proposed/Approved Work Plan Modifications

None

ITEM 18
HOUSATONIC RIVER FLOODPLAIN
CURRENT RESIDENTIAL PROPERTIES
DOWNSTREAM OF CONFLUENCE
(ACTUAL/POTENTIAL LAWNS)
(GECD730)
AUGUST 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
(GECD500)
AUGUST 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)
AUGUST 2006

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

a. Activities Undertaken/Completed

- On August 23, 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.)

- Began selection process for Remediation Contractor for Pilot Study.

- Collected soil samples from Parcel I9-9-19 for analysis or potential analysis for lead, as identified in Table 20-1.

- Collected samples of potential cap (isolation layer) materials from off-site sources for analysis of grain size and TOC (August 7, 22 and 25, 2006), as identified in Table 20-1.

- Collected sample of bank soil for TCLP analysis (August 28, 2006), as identified in Table 20-1.

- Conducted drum sampling at Building 78 of soil cuttings from Silver Lake Area, as identified in Table 20-1.

b. Sampling/Test Results Received

See attached tables.

c. Work Plans/Reports/Documents Submitted

- Submitted revised Pilot Study Work Plan for Silver Lake Sediments, along with response to discussions between GE and EPA and to EPA's July 18, 2006 conditional approval letter related to that work plan (August 16, 2006).

- Submitted letter to EPA proposing certain bank soil removal in conjunction with Pilot Study (August 22, 2006).

ITEM 20
(cont'd)
OTHER AREAS
SILVER LAKE AREA
(GECD600)
AUGUST 2006

d. Upcoming Scheduled Activities (next six weeks)

- Select Remediation Contractor for Pilot Study of sediment capping and initiate implementation of Pilot Study.

- Perform bank soil removal in conjunction with Pilot Study.

- Submit next Pre-Design Investigation Report for Soils at properties adjacent to Silver Lake (due by September 11, 2006).

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

- Received EPA approval of August 16, 2006 revised Pilot Study Work Plan for Silver Lake Sediments (August 30, 2006).

- Received EPA conditional approval of August 22, 2006 proposal for certain bank soil removal in conjunction with Pilot Study (August 30, 2006).

TABLE 20-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 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	I9-9-19-DUP-1 (I9-9-19-SB-2-SS)	8/29/06	0-1	Soil	SGS	Lead	
Additional PDI Soil Sampling	I9-9-19-SB-2-SS	8/29/06	0-1	Soil	SGS	Lead	
Additional PDI Soil Sampling	I9-9-19-SB-2-SSE	8/31/06	0-1	Soil	SGS	Lead	
Additional PDI Soil Sampling	I9-9-19-SB-2-SSE	8/29/06	0-1	Soil	SGS	Lead	Cancelled
Additional PDI Soil Sampling	I9-9-19-SB-2-SSS	8/29/06	0-1	Soil	SGS	Lead	Cancelled
Additional PDI Soil Sampling	I9-9-19-SB-2-SSS	8/31/06	0-1	Soil	SGS	Lead	
Additional PDI Soil Sampling	I9-9-19-SB-2-SSSE	8/29/06	0-1	Soil	SGS	Lead	Cancelled
Additional PDI Soil Sampling	I9-9-19-SB-2-SSSE	8/31/06	0-1	Soil	SGS	Lead	
Additional PDI Soil Sampling	I9-9-19-SB-2-SSSS	8/29/06	0-1	Soil	SGS	Lead	Cancelled
Additional PDI Soil Sampling	I9-9-19-SB-2-SSSS	8/31/06	0-1	Soil	SGS	Lead	
Additional PDI Soil Sampling	I9-9-19-SB-2-SSSW	8/31/06	0-1	Soil	SGS	Lead	
Additional PDI Soil Sampling	I9-9-19-SB-2-SSSW	8/29/06	0-1	Soil	SGS	Lead	Cancelled
Additional PDI Soil Sampling	I9-9-19-SB-2-SSW	8/29/06	0-1	Soil	SGS	Lead	Cancelled
Additional PDI Soil Sampling	I9-9-19-SB-2-SSW	8/31/06	0-1	Soil	SGS	Lead	
Additional PDI Soil Sampling	I9-9-24-SB-2-SE	6/8/06	13-15	Soil	SGS	TAL Metals	8/21/06
Additional PDI Soil Sampling	I9-9-24-SB-2-SE	6/8/06	9-11	Soil	SGS	TAL Metals	8/21/06
Additional PDI Soil Sampling	I9-9-24-SB-2-SES	6/8/06	13-15	Soil	SGS	TAL Metals	8/21/06
Additional PDI Soil Sampling	I9-9-24-SB-2-SES	6/8/06	9-11	Soil	SGS	TAL Metals	8/21/06
Additional PDI Soil Sampling	I9-9-24-SB-2-W	6/8/06	13-15	Soil	SGS	TAL Metals	8/21/06
Additional PDI Soil Sampling	I9-9-24-SB-2-W	6/8/06	9-11	Soil	SGS	TAL Metals	8/21/06
Additional PDI Soil Sampling	SL-0606-DUP-3 (I9-9-24-SB-2-SE)	6/8/06	9-11	Soil	SGS	TAL Metals	8/21/06
Monthly Water Column Sampling	Location-4A	8/23/06	NA	Water	NEA	PCB, TSS	
Monthly Water Column Sampling	Location-4A	7/26/06	NA	Water	NEA	PCB, TSS	8/10/06
Silver Lake Pilot Study Isolation Layer Material Sampling	BGRAV-1	8/22/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	BGRAV-1	8/22/06	NA	Soil	NEA	TOC	8/29/06
Silver Lake Pilot Study Isolation Layer Material Sampling	BGRAV-2	8/22/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	BGRAV-2	8/22/06	NA	Soil	NEA	TOC	8/29/06
Silver Lake Pilot Study Isolation Layer Material Sampling	BGRAV-3	8/22/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	BGRAV-3	8/22/06	NA	Soil	NEA	TOC	8/29/06
Silver Lake Pilot Study Isolation Layer Material Sampling	Clark-Pond-Sand-1	8/25/06	NA	Sand	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	Clark-Pond-Sand-1	8/25/06	NA	Sand	NEA	TOC	8/31/06
Silver Lake Pilot Study Isolation Layer Material Sampling	Clark-Pond-Sand-2	8/25/06	NA	Sand	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	Clark-Pond-Sand-2	8/25/06	NA	Sand	NEA	TOC	8/31/06
Silver Lake Pilot Study Isolation Layer Material Sampling	Clark-Pond-Sand-3	8/25/06	NA	Sand	NEA	Grain Size	

TABLE 20-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 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
Silver Lake Pilot Study Isolation Layer Material Sampling	Clark-Pond-Sand-3	8/25/06	NA	Sand	NEA	TOC	8/31/06
Silver Lake Pilot Study Isolation Layer Material Sampling	Clark-Top-Soil-1	8/25/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	Clark-Top-Soil-1	8/25/06	NA	Soil	NEA	TOC	8/31/06
Silver Lake Pilot Study Isolation Layer Material Sampling	Clark-Top-Soil-2	8/25/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	Clark-Top-Soil-2	8/25/06	NA	Soil	NEA	TOC	8/31/06
Silver Lake Pilot Study Isolation Layer Material Sampling	Clark-Top-Soil-3	8/25/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	Clark-Top-Soil-3	8/25/06	NA	Soil	NEA	TOC	8/31/06
Silver Lake Pilot Study Isolation Layer Material Sampling	Clark-Wash-Sand-1	8/25/06	NA	Sand	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	Clark-Wash-Sand-1	8/25/06	NA	Sand	NEA	TOC	8/31/06
Silver Lake Pilot Study Isolation Layer Material Sampling	Clark-Wash-Sand-2	8/25/06	NA	Sand	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	Clark-Wash-Sand-2	8/25/06	NA	Sand	NEA	TOC	8/31/06
Silver Lake Pilot Study Isolation Layer Material Sampling	Clark-Wash-Sand-3	8/25/06	NA	Sand	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	Clark-Wash-Sand-3	8/25/06	NA	Sand	NEA	TOC	8/31/06
Silver Lake Pilot Study Isolation Layer Material Sampling	FSAND-1	8/22/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	FSAND-1	8/22/06	NA	Soil	NEA	TOC	8/29/06
Silver Lake Pilot Study Isolation Layer Material Sampling	FSAND-2	8/22/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	FSAND-2	8/22/06	NA	Soil	NEA	TOC	8/29/06
Silver Lake Pilot Study Isolation Layer Material Sampling	FSAND-3	8/22/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	FSAND-3	8/22/06	NA	Soil	NEA	TOC	8/29/06
Silver Lake Pilot Study Isolation Layer Material Sampling	LANEPOND-1	8/22/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	LANEPOND-1	8/22/06	NA	Soil	NEA	TOC	8/29/06
Silver Lake Pilot Study Isolation Layer Material Sampling	LANEPOND-2	8/22/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	LANEPOND-2	8/22/06	NA	Soil	NEA	TOC	8/29/06
Silver Lake Pilot Study Isolation Layer Material Sampling	LANEPOND-3	8/22/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	LANEPOND-3	8/22/06	NA	Soil	NEA	TOC	8/29/06
Silver Lake Pilot Study Isolation Layer Material Sampling	LANETS-1	8/22/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	LANETS-1	8/22/06	NA	Soil	NEA	TOC	8/29/06
Silver Lake Pilot Study Isolation Layer Material Sampling	LANETS-2	8/22/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	LANETS-2	8/22/06	NA	Soil	NEA	TOC	8/29/06
Silver Lake Pilot Study Isolation Layer Material Sampling	LANETS-3	8/22/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	LANETS-3	8/22/06	NA	Soil	NEA	TOC	8/29/06
Silver Lake Pilot Study Isolation Layer Material Sampling	POND-1	8/22/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	POND-1	8/22/06	NA	Soil	NEA	TOC	8/29/06
Silver Lake Pilot Study Isolation Layer Material Sampling	POND-2	8/22/06	NA	Soil	NEA	Grain Size	

TABLE 20-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 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
Silver Lake Pilot Study Isolation Layer Material Sampling	POND-2	8/22/06	NA	Soil	NEA	TOC	8/29/06
Silver Lake Pilot Study Isolation Layer Material Sampling	POND-3	8/22/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	POND-3	8/22/06	NA	Soil	NEA	TOC	8/29/06
Silver Lake Pilot Study Isolation Layer Material Sampling	SL-BANKSAND-1	8/7/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	SL-BANKSAND-1	8/7/06	NA	Soil	NEA	TOC	8/17/06
Silver Lake Pilot Study Isolation Layer Material Sampling	SL-BANKSAND-2	8/7/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	SL-BANKSAND-2	8/7/06	NA	Soil	NEA	TOC	8/17/06
Silver Lake Pilot Study Isolation Layer Material Sampling	SL-BANKSAND-3	8/7/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	SL-BANKSAND-3	8/7/06	NA	Soil	NEA	TOC	8/17/06
Silver Lake Pilot Study Isolation Layer Material Sampling	SL-TOPSOIL-1	8/7/06	NA	Soil	NEA	TOC	8/17/06
Silver Lake Pilot Study Isolation Layer Material Sampling	SL-TOPSOIL-2	8/7/06	NA	Soil	NEA	TOC	8/17/06
Silver Lake Pilot Study Isolation Layer Material Sampling	SL-TOPSOIL-3	8/7/06	NA	Soil	NEA	TOC	8/17/06
Silver Lake Pilot Study Isolation Layer Material Sampling	Troy-Loam-Sand-1	8/25/06	NA	Sand	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	Troy-Loam-Sand-1	8/25/06	NA	Sand	NEA	TOC	8/31/06
Silver Lake Pilot Study Isolation Layer Material Sampling	Troy-Loam-Sand-2	8/25/06	NA	Sand	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	Troy-Loam-Sand-2	8/25/06	NA	Sand	NEA	TOC	8/31/06
Silver Lake Pilot Study Isolation Layer Material Sampling	Troy-Loam-Sand-3	8/25/06	NA	Sand	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	Troy-Loam-Sand-3	8/25/06	NA	Sand	NEA	TOC	8/31/06
Silver Lake Pilot Study Isolation Layer Material Sampling	Troy-Nassau-Sand-1	8/25/06	NA	Sand	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	Troy-Nassau-Sand-1	8/25/06	NA	Sand	NEA	TOC	8/31/06
Silver Lake Pilot Study Isolation Layer Material Sampling	Troy-Nassau-Sand-2	8/25/06	NA	Sand	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	Troy-Nassau-Sand-2	8/25/06	NA	Sand	NEA	TOC	8/31/06
Silver Lake Pilot Study Isolation Layer Material Sampling	Troy-Nassau-Sand-3	8/25/06	NA	Sand	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	Troy-Nassau-Sand-3	8/25/06	NA	Sand	NEA	TOC	8/31/06
Silver Lake Pilot Study Isolation Layer Material Sampling	Troy-Top-Soil-1	8/25/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	Troy-Top-Soil-1	8/25/06	NA	Soil	NEA	TOC	8/31/06
Silver Lake Pilot Study Isolation Layer Material Sampling	Troy-Top-Soil-2	8/25/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	Troy-Top-Soil-2	8/25/06	NA	Soil	NEA	TOC	8/31/06
Silver Lake Pilot Study Isolation Layer Material Sampling	Troy-Top-Soil-3	8/25/06	NA	Soil	NEA	Grain Size	
Silver Lake Pilot Study Isolation Layer Material Sampling	Troy-Top-Soil-3	8/25/06	NA	Soil	NEA	TOC	8/31/06
Silver Lake TCLP Soil Sampling	RA4-PILOT	8/25/06	0-3	Soil	SGS	TCLP	
Soil Drum Sampling	BLDG78-F1751-0823	8/23/06	NA	Soil	SGS	PCB, TCLP	

Note:

1. Field duplicate sample locations are presented in parenthesis.

TABLE 20-2
SAMPLE DATA RECEIVED DURING AUGUST 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	7/26/2006	ND(0.0000440)	0.000440 PB	0.000130 PE	0.0000650 AF	0.0000590 AG	0.000694	3.40

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:

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

	Sample ID:	I9-9-24-SB-2-SE
	Sample Depth (Feet):	13-15
Parameter	Date Collected:	06/08/06
Inorganics		
Cadmium		0.357 B

Notes:

1. This result has been revised by the laboratory and supersedes the result reported in Table 20-4 of the June 2006 CD Monthly Report.

Data Qualifiers:

Inorganics

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

TABLE 20-4
TOC DATA RECEIVED DURING AUGUST 2006

SILVER LAKE PILOT STUDY ISOLATION LAYER MATERIAL SAMPLING
SILVER LAKE AREA
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter / Sample ID: / Date Collected:	BGRAV-1 08/22/06	BGRAV-2 08/22/06	BGRAV-3 08/22/06	CLARK-POND-SAND-1 08/25/06	CLARK-POND-SAND-2 08/25/06	CLARK-POND-SAND-3 08/25/06	CLARK-TOP-SOIL-1 08/25/06
Total Organic Carbon							
TOC - Replicate 1	3600	2800	1900	4600	4600	3100	19000
TOC - Replicate 2	2800	2800	2900	2700	4900	6000	15000
TOC - Replicate 3	2000	2200	1900	3200	6500	5500	16000
TOC - Replicate 4	2100	NA	2200	2800	NA	3500	NA
TOC - Average	2600	2600	2200	3300	5300	4500	17000
TOC - % RSD	28	14	22	27	19	32	14

TABLE 20-4
TOC DATA RECEIVED DURING AUGUST 2006

SILVER LAKE PILOT STUDY ISOLATION LAYER MATERIAL SAMPLING
SILVER LAKE AREA
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter / Sample ID: / Date Collected:	CLARK-TOP-SOIL-2 08/25/06	CLARK-TOP-SOIL-3 08/25/06	CLARK-WASH-SAND-1 08/25/06	CLARK-WASH-SAND-2 08/25/06	CLARK-WASH-SAND-3 08/25/06	FSAND-1 08/22/06
Total Organic Carbon						
TOC - Replicate 1	24000	59000	670	3100	1400	7100
TOC - Replicate 2	20000	22000	1300	1600	2100	1800
TOC - Replicate 3	30000	26000	1500	1600	2500	3600
TOC - Replicate 4	NA	23000	2000	1600	2300	2000
TOC - Average	25000	32000	1400	2000	2000	3600
TOC - % RSD	19	55	40	37	24	67

TABLE 20-4
TOC DATA RECEIVED DURING AUGUST 2006

SILVER LAKE PILOT STUDY ISOLATION LAYER MATERIAL SAMPLING
SILVER LAKE AREA
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter / Sample ID: / Date Collected:	FSAND-2 08/22/06	FSAND-3 08/22/06	LANEPOND-1 08/22/06	LANEPOND-2 08/22/06	LANEPOND-3 08/22/06	LANETS-1 08/22/06	LANETS-2 08/22/06	LANETS-3 08/22/06	POND-1 08/22/06
Total Organic Carbon									
TOC - Replicate 1	4900	2000	3000	1800	3700	10000	4800	6900	2900
TOC - Replicate 2	2400	2200	2800	4500	9600	8700	9600	5300	9100
TOC - Replicate 3	1400	2000	2000	2900	10000	7900	5300	3900	3500
TOC - Replicate 4	5200	NA	NA	2300	2300	NA	4000	3900	4000
TOC - Average	3500	2100	2600	2900	6400	8900	5900	5000	4900
TOC - % RSD	55	4.8	22	41	63	12	42	29	59

TABLE 20-4
TOC DATA RECEIVED DURING AUGUST 2006

SILVER LAKE PILOT STUDY ISOLATION LAYER MATERIAL SAMPLING
SILVER LAKE AREA
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter / Sample ID: / Date Collected:	POND-2 08/22/06	POND-3 08/22/06	SL-BANKSAND-1 08/07/06	SL-BANKSAND-2 08/07/06	SL-BANKSAND-3 08/07/06	SL-TOPSOIL-1 08/07/06	SL-TOPSOIL-2 08/07/06	SL-TOPSOIL-3 08/07/06
Total Organic Carbon								
TOC - Replicate 1	2400	3900	2900	2700	2200	13000	12000	14000
TOC - Replicate 2	2200	4400	3600	790	2500	12000	16000	15000
TOC - Replicate 3	3000	3800	3600	3600	2900	12000	12000	14000
TOC - Replicate 4	NA	NA	NA	1200	NA	NA	NA	NA
TOC - Average	2500	4000	3400	2100	2500	12000	14000	14000
TOC - % RSD	16	7.6	12	63	15	4.3	16	5.2

TABLE 20-4
TOC DATA RECEIVED DURING AUGUST 2006

SILVER LAKE PILOT STUDY ISOLATION LAYER MATERIAL SAMPLING
SILVER LAKE AREA
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter / Sample ID: / Date Collected:	TROY-LOAM-SAND-1 08/25/06	TROY-LOAM-SAND-2 08/25/06	TROY-LOAM-SAND-3 08/25/06	TROY-NASSAU-SAND-1 08/25/06	TROY-NASSAU-SAND-2 08/25/06
Total Organic Carbon					
TOC - Replicate 1	1200	1700	1600	710	1000
TOC - Replicate 2	1300	1600	1100	1800	750
TOC - Replicate 3	950	880	1200	700	750
TOC - Replicate 4	NA	1500	NA	700	NA
TOC - Average	1200	1400	1300	980	830
TOC - % RSD	17	26	23	57	17

TABLE 20-4
TOC DATA RECEIVED DURING AUGUST 2006

SILVER LAKE PILOT STUDY ISOLATION LAYER MATERIAL SAMPLING
SILVER LAKE AREA
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

Parameter / Sample ID: / Date Collected:	TROY-NASSAU-SAND-3 08/25/06	TROY-TOP-SOIL-1 08/25/06	TROY-TOP-SOIL-2 08/25/06	TROY-TOP-SOIL-3 08/25/06
Total Organic Carbon				
TOC - Replicate 1	910	11000	5400	7200
TOC - Replicate 2	830	6600	7000	6600
TOC - Replicate 3	310	15000	12000	5500
TOC - Replicate 4	1200	13000	7400	NA
TOC - Average	810	11000	8000	6400
TOC - % RSD	45	33	36	14

Notes:
1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to Northeast Analytical, Inc. for analysis of total organic carbon (TOC).
2. % RSD - Percent relative standard deviation.
3. NA - Not Analyzed - TOC Replicate 4 is only analyzed and reported by laboratory when the % RSD of Replicate 1 thru Replicate 3 is greater than 25%.

TABLE 20-5
DATA RECEIVED DURING AUGUST 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-SE 9-11 06/08/06	I9-9-24-SB-2-SE 13-15 06/08/06	I9-9-24-SB-2-SES 9-11 06/08/06	I9-9-24-SB-2-SES 13-15 06/08/06	I9-9-24-SB-2-W 9-11 06/08/06	I9-9-24-SB-2-W 13-15 06/08/06
Inorganics							
Aluminum		1760 [3270]	4930	4230	4630	7360	7560
Antimony		38.1 [8.85 B]	1.56 B	3.32 B	1.83 B	2.09 B	1.42 B
Arsenic		5.68 [11.4]	18.4	6.54	4.93	2.68	3.02
Barium		557 [1140]	100	168	75.0	182	47.9
Beryllium		0.196 B [0.358 B]	0.521 B	0.255 B	0.202 B	0.240 B	0.340 B
Cadmium		--	--	--	--	--	--
Calcium		1380 [5020]	117000	16700	11600	9780	7450
Chromium		--	--	--	--	--	--
Cobalt		4.55 [2.65]	12.5	4.49	3.54	6.24	5.61
Copper		--	--	--	--	--	--
Iron		6130 [10200]	16300	49300	26400	28200	45400
Lead		153 [313]	1400	1060	206	575	102
Magnesium		381 [622]	6260	1780	1510	2950	1470
Manganese		3660 [15200]	1080	479	337	299	521
Mercury		0.0890 [0.118]	0.889	0.560	0.472	4.73	0.213
Nickel		3.82 [7.06]	76.6	23.4	12.8	19.6	13.8
Potassium		1160 [488]	927	446	385	310	399
Selenium		2.08 B [7.01]	2.78 B	0.812 B	1.25 B	ND(2.69)	ND(2.27)
Silver		0.724 B [3.02]	1.57 B	ND(1.65)	ND(1.71)	ND(1.34)	ND(1.14)
Sodium		2130 [884]	1100	653	665	148	134
Thallium		1.11 B [17.2]	0.950 B	ND(1.65)	ND(1.71)	ND(1.34)	ND(1.14)
Vanadium		7.76 [15.3]	20.2	13.7	8.38 B	13.6	13.5
Zinc		3410 [10900]	798	2030	154	197	62.6

Notes:
1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of metals.
2. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.
3. -- Analytical results for cadmium, chromium and copper have been previously reported in Table 20-4 of the June 2006 CD Monthly Report and Table 20-3 of the July 2006 CD Monthly Report.
4. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Inorganics

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

ITEM 21
GROUNDWATER MANAGEMENT AREAS
PLANT SITE 1 (GMA 1)
(GECD310)
AUGUST 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 drum sampling at Building 78 of monitoring well purge water, 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 1 gallon of LNAPL was recovered from the North Side Caisson in August. No LNAPL was recovered from the South Side Caisson in August.

- Continued routine well monitoring and manual NAPL removal activities. Approximately 0.018 liter (0.005 gallon) of LNAPL was removed from this area during August.

East Street Area 2-South:

- Continued automated groundwater and LNAPL removal activities. A total of approximately 4,564,836 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 955 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 37 gallons of DNAPL were removed from pumping system RW-3(X) during August.

- Continued routine well monitoring and manual NAPL removal activities. Approximately 10.895 liters (2.875 gallons) of LNAPL were removed from wells in this area during August. Approximately 4.214 liters (1.112 gallons) of DNAPL were removed from wells in this area during August.

- Treated/discharged 3,864,995 gallons of water through 64G Groundwater Treatment Facility.

East Street Area 2-North:

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

ITEM 21
(cont'd)
GROUNDWATER MANAGEMENT AREAS
PLANT SITE 1 (GMA 1)
(GECD310)
AUGUST 2006

a. Activities Undertaken/Completed (cont'd)

East Street Area 2-North: (cont'd)

- Well A7 was decommissioned after being damaged during utility excavation activities on August 23, 2006. This well is not utilized as part of GE's current groundwater or NAPL monitoring programs.

20s, 30s, and 40s Complexes:

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

Lyman Street Area:

- Continued automated groundwater and NAPL removal activities. A total of approximately 216,359 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 August.

- Continued routine well monitoring and NAPL removal activities. Approximately 0.247 liter (0.065 gallon) of LNAPL was removed from wells in this area during August. Approximately 1.123 liters (0.296 gallons) of DNAPL were removed from wells in this area during August.

Newell Street Area II:

- Continued routine well monitoring and NAPL removal activities. Approximately 6.015 liters (1.587 gallons) of DNAPL were recovered from this area during August. No LNAPL was recovered from this area during August.

- Completed assembly of automated DNAPL recovery system for Newell Street Area II, and activated system on August 30, 2006.

Silver Lake Area:

- Continued routine monitoring of staff gauge in lake.

ITEM 21
(cont'd)
GROUNDWATER MANAGEMENT AREAS
PLANT SITE 1 (GMA 1)
(GECD310)
AUGUST 2006

b. Sampling/Test Results Received

See attached tables.

c. Work Plans/Reports/Documents Submitted

Submitted NAPL Monitoring Report for Spring 2006 (August 30, 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.
- Conduct LNAPL bail-down test at well 25R.
- Evaluate potential additional groundwater/LNAPL recovery measures at the former scrapyard area at East Street Area 2-South and present the results in a letter to EPA by October 30, 2006.
- Remove/replace/modify selected wells on the 20s and 30s Complexes per GE's approved May 22, 2006 proposal.
- Remove oil skimmer from well 40R and place a new skimmer in well GMA1-17W, following EPA approval of GE's proposal.

e. General Progress/Unresolved Issues/Potential Schedule Impacts

No issues

f. Proposed/Approved Work Plan Modifications

None

TABLE 21-2
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
August 2006

Caisson	Month	Vol. LNAPL Collected (gallon)	Vol. Water Recovered (gallon)	Percent Downtime
Northside	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	0.0	18,500	
	August 2006	1.0	21,700	
Southside	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	
	August 2006	0.0	84,900	

TABLE 21-3
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
August 2006

Well Name	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	LNAPL Removed (liters)	August 2006 Removal (liters)
34	8/22/06	6.22	6.20	0.02	0.012	0.012
72	8/22/06	6.92	6.91	0.01	0.006	0.006

Total Manual LNAPL Removal for August 2006: 0.018 liters
0.005 gallons

Note:
1. ft BMP - feet Below Measuring Point.

TABLE 21-4
ROUTINE WELL MONITORING
EAST STREET AREA 1 - NORTH & SOUTH
GROUNDWATER MANAGEMENT AREA 1

CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
August 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									
North Caisson	997.84	8/2/06	18.26	18.25	0.01	---	19.80	0.00	979.59
North Caisson	997.84	8/9/06	18.14	18.13	0.01	---	19.80	0.00	979.71
North Caisson	997.84	8/16/06	18.21	18.20	0.01	---	19.80	0.00	979.64
North Caisson	997.84	8/21/06	18.29	18.28	0.01	---	19.80	0.00	979.56
North Caisson	997.84	8/30/06	18.60	18.59	0.01	---	19.80	0.00	979.25
GMA 1 - East Street Area 1 - South									
31R	1,000.23	8/22/06	9.60	---	0.00	---	15.04	0.00	990.63
33	999.50	8/22/06	6.90	---	0.00	---	21.30	0.00	992.60
34	999.90	8/22/06	6.22	6.20	0.02	---	21.04	0.00	993.70
72	1000.62	8/22/06	6.92	6.91	0.01	---	21.95	0.00	993.71
72R	1000.92	8/22/06	6.80	---	0.00	---	13.30	0.00	994.12
South Caisson	1001.11	8/2/06	11.78	11.77	0.01	---	15.00	0.00	989.34
South Caisson	1001.11	8/9/06	12.14	P	< 0.01	---	15.00	0.00	988.97
South Caisson	1001.11	8/16/06	13.35	13.34	0.01	---	15.00	0.00	987.77
South Caisson	1001.11	8/21/06	14.05	14.00	0.05	---	15.00	0.00	987.11
South Caisson	1001.11	8/30/06	14.00	13.93	0.07	---	15.00	0.00	987.18

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 21-5
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
August 2006

Recovery System Location	Month	Oil Collected (gallon)	Water Recovered (gallon)	Percent Downtime
40R	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		
	August 2006	0		
64R	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	
	August 2006	25	38,948	
64S System	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	0.93
	August 2006	238	646,128	
64V [1]	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	
	August 2006	548	1,016,400	

TABLE 21-5
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
August 2006

Recovery System Location	Month	Oil Collected (gallon)	Water Recovered (gallon)	Percent Downtime
64X	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	
	February 2006	1	388,800	
	March 2006	1	504,000	0.71
	April 2006	1	403,200	
	May 2006	83	403,200	
	June 2006	14	518,400	
	July 2006	28	388,800	
	August 2006	127	504,000	
RW-2(X)	August 2005	0	982,100	
	September 2005	0	721,200	4.91
	October 2005	0	529,600	
	November 2005	0	573,600	
	December 2005	0	491,800	
	January 2006	0	710,700	
	February 2006	0	1,288,600	
	March 2006	0	1,081,726	0.71
	April 2006	10	408,494	
	May 2006	0	652,543	
	June 2006	0	1,463,805	
	July 2006	0	1,076,551	
	August 2006	0	1,146,830	
RW-1(S) [2]	August 2005	32	780,217	1.96 - Maintenance
	September 2005	4	527,699	4.91
	October 2005	43	783,765	
	November 2005	42	1,103,548	
	December 2005	40	900,898	
	January 2006	30	270,228	
	February 2006	27	1,042,895	
	March 2006	40	1,049,702	0.71
	April 2006	57	736,984	
	May 2006	77	744,621	
	June 2006	59	935,039	4.63
	July 2006	28	722,887	
	August 2006	17	741,315	
RW-1(X)	August 2005	0	142,000	
	September 2005	0	80,000	4.91
	October 2005	0	299,300	
	November 2005	0	390,700	
	December 2005	0	324,500	
	January 2006	0	417,500	
	February 2006	0	381,500	
	March 2006	0	119,720	0.71
	April 2006	0	403,940	
	May 2006	0	385,828	
	July 2006	0	561,633	
	June 2006	0	369,041	
	August 2006	0	471,215	

TABLE 21-5
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
August 2006

Recovery System Location	Month	Oil Collected (gallon)	Water Recovered (gallon)	Percent Downtime
RW-3(X)	August 2005	51		11.76 - Maintenance
	September 2005	40		
	October 2005	19		35.71
	November 2005	51		5.88
	December 2005	31		
	January 2006	27		
	February 2006	20		
	March 2006	36		
	April 2006	29		
	May 2006	29		
	June 2006	42		
	July 2006	28		
	August 2006	37		

Summary of Total Automated Removal		
Water:	**4,564,836**	**Gallons**
LNAPL:	**955**	**Gallons**
DNAPL:	**37**	**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 21-6
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
August 2006

Well Name	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	LNAPL Removed (liters)	August 2006 Removal (liters)
13	8/21/06	18.22	18.10	0.12	0.074	0.074
14	8/21/06	18.38	18.15	0.23	0.142	0.142
25R	8/21/06	25.85	20.66	5.19	3.202	3.202
48	8/21/06	17.75	16.00	1.75	1.080	1.080
55	8/21/06	17.50	16.70	0.80	0.494	0.494
95-04R	7/14/06	14.81	13.74	1.07	2.600	4.430
	8/21/06	15.00	14.30	0.70	1.730	
	7/14/06	18.13	18.11	0.02	0.050	
	8/21/06	19.26	19.24	0.02	0.049	
GMA1-15	8/21/06	15.98	15.61	0.37	0.228	0.228
GMA1-16	8/21/06	14.10	13.66	0.44	0.271	0.271
GMA1-17W	8/21/06	17.15	15.65	1.50	0.308	0.308
GMA1-19	8/2/06	12.10	11.35	0.75	0.463	0.666
	8/9/06	11.53	11.51	0.02	0.012	
	8/16/06	11.90	11.65	0.25	0.154	
	8/21/06	11.48	11.45	0.03	0.019	
	8/29/06	11.72	11.51	0.21	0.019	

Total LNAPL Removal East Street Area 2 - South for August 2006: 10.895 liters
2.875 gallons

Total LNAPL Removal for August 2006: 10.895 liters
2.875 gallons

Note:
1. ft BMP - feet Below Measuring Point.

TABLE 21-7
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
August 2006

Well Name	Date	Depth to Water (ft BMP)	Depth to DNAPL (ft BMP)	DNAPL Thickness (feet)	DNAPL Removed (liters)	August 2006 Removal (liters)
E2SC-03I	8/21/06	9.90	35.50	6.83	4.214	4.214

Total DNAPL Removal East Street Area 2 - South for August 2006: 4.214 liters
1.112 gallons

Total DNAPL Removal for August 2006: 4.214 liters
1.112 gallons

Note:
1. ft BMP - feet Below Measuring Point

TABLE 21-8
64G TREATMENT PLANT DISCHARGE DATA
GROUNDWATER MANAGEMENT AREA 1

CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
August 2006

Date	Housatonic River Discharge (gallons)	Recharge Pond Discharge (gallons)	Total Discharge (gallons)
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
August 2006	3,542,620	322,375	3,864,995

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 21-9
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
August 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 - South									
13	990.88	8/21/06	18.22	18.10	0.12	---	22.50	0.00	972.77
14	991.61	8/21/06	18.38	18.15	0.23	---	25.60	0.00	973.44
19	983.59	8/2/06	11.40	---	0.00	---	18.30	0.00	972.19
19	983.59	8/9/06	11.45	---	0.00	---	18.23	0.00	972.14
19	983.59	8/16/06	11.60	---	0.00	---	18.20	0.00	971.99
19	983.59	8/21/06	11.20	---	0.00	---	18.20	0.00	972.39
19	983.59	8/29/06	11.52	---	0.00	---	18.15	0.00	972.07
25R	998.31	8/21/06	25.85	20.66	5.19	---	30.75	0.00	977.29
26RR	1,000.58	1/0/00	22.41	22.25	0.16	---	28.49	0.00	978.32
40R	991.60	8/2/06	17.40	---	0.00	---	NM	0.00	974.20
40R	991.60	8/9/06	17.70	---	0.00	---	NM	0.00	973.90
40R	991.60	8/16/06	16.55	---	0.00	---	NM	0.00	975.05
40R	991.60	8/21/06	18.05	---	0.00	---	NM	0.00	973.55
40R	991.60	8/30/06	18.20	---	0.00	---	NM	0.00	973.40
48	992.39	8/21/06	17.75	16.00	1.75	---	22.68	0.00	976.27
49R	988.71	8/21/06	15.80	---	0.00	---	24.89	0.00	972.91
49RR	989.80	8/21/06	16.90	---	0.00	---	23.04	0.00	972.90
55	989.45	8/21/06	17.50	16.70	0.80	---	30.04	0.00	972.69
64R	993.37	8/2/06	16.08	16.06	0.02	---	20.50	0.00	977.31
64R	993.37	8/9/06	16.04	16.03	0.01	---	20.50	0.00	977.34
64R	993.37	8/16/06	16.06	P	< 0.01	---	20.50	0.00	977.31
64R	993.37	8/21/06	16.30	16.29	0.01	---	20.50	0.00	977.08
64R	993.37	8/30/06	16.18	P	< 0.01	---	20.50	0.00	977.19
64S	984.48	8/2/06	19.25	P	< 0.01	---	28.70	0.00	965.23
64S	984.48	8/9/06	19.23	P	< 0.01	---	28.70	0.00	965.25
64S	984.48	8/16/06	19.30	---	0.00	---	28.70	0.00	965.18
64S	984.48	8/21/06	19.20	P	< 0.01	---	28.70	0.00	965.28
64S	984.48	8/30/06	19.30	P	< 0.01	---	28.70	0.00	965.18
64S-Caisson	NA	8/2/06	10.68	10.66	0.02	---	14.55	0.00	NA
64S-Caisson	NA	8/9/06	11.00	10.95	0.05	---	14.55	0.00	NA
64S-Caisson	NA	8/16/06	11.00	10.98	0.02	---	14.55	0.00	NA
64S-Caisson	NA	8/21/06	10.40	P	< 0.01	---	14.55	0.00	NA
64S-Caisson	NA	8/30/06	10.77	10.75	0.02	---	14.55	0.00	NA
64V	987.29	8/2/06	21.80	21.50	0.30	---	29.60	0.00	965.77
64V	987.29	8/9/06	22.00	21.70	0.30	---	29.60	0.00	965.57
64V	987.29	8/16/06	21.80	21.70	0.10	P	29.60	< 0.01	965.58
64V	987.29	8/21/06	21.90	21.70	0.20	---	29.60	0.00	965.58
64V	987.29	8/30/06	21.90	21.50	0.40	---	29.60	0.00	965.76
64X(N)	984.83	8/2/06	12.60	P	< 0.01	---	15.85	0.00	972.23
64X(N)	984.83	8/9/06	12.75	P	< 0.01	---	15.85	0.00	972.08
64X(N)	984.83	8/16/06	12.95	12.94	0.01	---	15.85	0.00	971.89
64X(N)	984.83	8/21/06	12.34	12.33	0.01	---	15.85	0.00	972.50
64X(N)	984.83	8/30/06	12.61	12.60	0.01	---	15.85	0.00	972.23
64X(S)	981.56	8/2/06	16.05	15.90	0.15	---	23.82	0.00	965.65
64X(S)	981.56	8/9/06	16.10	16.00	0.10	---	23.82	0.00	965.55
64X(S)	981.56	8/16/06	16.40	16.33	0.07	---	23.82	0.00	965.23

TABLE 21-9
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
August 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)
64X(S)	981.56	8/21/06	15.25	15.15	0.10	---	23.82	0.00	966.40
64X(S)	981.56	8/30/06	15.50	15.45	0.05	---	23.82	0.00	966.11
64X(W)	984.87	8/2/06	19.13	19.10	0.03	---	24.35	0.00	965.77
64X(W)	984.87	8/9/06	19.29	19.28	0.01	---	24.35	0.00	965.59
64X(W)	984.87	8/16/06	19.50	19.47	0.03	---	24.35	0.00	965.40
64X(W)	984.87	8/21/06	18.40	18.38	0.02	---	24.35	0.00	966.49
64X(W)	984.87	8/30/06	18.75	18.73	0.02	---	24.35	0.00	966.14
95-01	983.77	8/21/06	10.95	---	0.00	---	17.25	0.00	972.82
95-04R	988.70	7/14/06	14.81	13.74	1.07	---	22.15	0.00	974.89
95-04R	988.70	8/21/06	15.00	14.30	0.70	---	22.05	0.00	974.35
95-07R	994.91	7/14/06	18.13	18.11	0.02	---	26.05	0.00	976.80
95-07R	994.91	8/21/06	19.26	19.24	0.02	---	26.10	0.00	975.67
3-6C-EB-22	986.94	8/21/06	14.20	---	0.00	---	20.01	0.00	972.74
E2SC-03I	982.12	8/21/06	9.90	---	0.00	35.50	42.33	6.83	972.22
E2SC-17	985.38	8/21/06	11.50	---	0.00	---	45.75	0.00	973.88
E2SC-23	992.07	8/21/06	17.75	---	0.00	---	21.15	0.00	974.32
E2SC-24	987.90	8/21/06	15.51	---	0.00	---	21.61	0.00	972.39
ES2-06	986.00	8/21/06	13.30	---	0.00	---	34.55	0.00	972.70
GMA1-14	997.43	8/21/06	9.42	9.40	0.02	---	23.26	0.00	988.03
GMA1-15	988.59	8/21/06	15.98	15.61	0.37	---	17.84	0.00	972.95
GMA1-16	986.82	8/21/06	14.10	13.66	0.44	---	20.00	0.00	973.13
GMA1-17E	993.03	8/21/06	15.90	15.88	0.02	---	17.30	0.00	977.15
GMA1-17W	992.63	8/21/06	17.15	15.65	1.50	---	23.25	0.00	976.88
GMA1-19	984.28	8/2/06	12.10	11.35	0.75	---	17.13	0.00	972.88
GMA1-19	984.28	8/9/06	11.53	11.51	0.02	---	17.14	0.00	972.77
GMA1-19	984.28	8/16/06	11.90	11.65	0.25	---	17.13	0.00	972.61
GMA1-19	984.28	8/21/06	11.48	11.45	0.03	---	17.14	0.00	972.83
GMA1-19	984.28	8/29/06	11.72	11.51	0.21	---	17.14	0.00	972.76
GMA1-20	983.49	8/2/06	10.98	---	0.00	---	17.30	0.00	972.51
GMA1-20	983.49	8/9/06	11.02	---	0.00	---	17.28	0.00	972.47
GMA1-20	983.49	8/16/06	11.20	---	0.00	---	19.44	0.00	972.29
GMA1-20	983.49	8/21/06	10.84	---	0.00	---	17.30	0.00	972.65
GMA1-20	983.49	8/29/06	11.00	---	0.00	---	17.30	0.00	972.49
GMA1-21	985.68	8/2/06	13.05	---	0.00	---	19.48	0.00	972.63
GMA1-21	985.68	8/9/06	13.25	---	0.00	---	19.46	0.00	972.43
GMA1-21	985.68	8/16/06	13.30	---	0.00	---	19.44	0.00	972.38
GMA1-21	985.68	8/21/06	13.00	---	0.00	---	19.45	0.00	972.68
GMA1-21	985.68	8/29/06	13.10	---	0.00	---	19.45	0.00	972.58
GMA1-22	988.45	8/21/06	15.40	---	0.00	---	19.25	0.00	973.05
GMA1-23	986.16	8/21/06	13.23	---	0.00	---	17.30	0.00	972.93
GMA1-24	983.81	8/21/06	11.20	---	0.00	---	16.10	0.00	972.61
GMA1-24	983.81	8/29/06	11.35	---	0.00	---	16.10	0.00	972.46
HR-G2-MW-1	982.60	8/21/06	8.50	---	0.00	---	18.24	0.00	974.10
HR-G2-MW-2	981.39	8/21/06	8.74	---	0.00	---	17.76	0.00	972.65
HR-G2-MW-3	987.14	8/21/06	14.75	---	0.00	---	22.00	0.00	972.39
HR-G2-RW-1	976.88	8/21/06	6.20	---	0.00	---	18.70	0.00	972.25
RW-1(S)	987.23	8/2/06	19.25	19.10	0.15	---	28.60	0.00	968.12
RW-1(S)	987.23	8/9/06	19.20	18.90	0.30	---	28.60	0.00	968.31

TABLE 21-9
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
August 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(S)	987.23	8/16/06	19.20	19.18	0.02	P	28.60	< 0.01	968.05
RW-1(S)	987.23	8/21/06	18.96	18.94	0.02	---	28.60	0.00	968.29
RW-1(S)	987.23	8/30/06	19.25	19.00	0.25	---	28.60	0.00	968.21
RW-1(X)	982.68	8/2/06	14.00	---	0.00	---	20.80	0.00	968.68
RW-1(X)	982.68	8/9/06	14.25	---	0.00	---	20.80	0.00	968.43
RW-1(X)	982.68	8/16/06	14.29	---	0.00	---	20.80	0.00	968.39
RW-1(X)	982.68	8/21/06	14.20	---	0.00	---	20.80	0.00	968.48
RW-1(X)	982.68	8/30/06	13.95	---	0.00	---	20.80	0.00	968.73
RW-2(X)	985.96	8/2/06	14.30	---	0.00	---	15.30	0.00	971.66
RW-2(X)	985.96	8/9/06	14.35	---	0.00	---	15.30	0.00	971.61
RW-2(X)	985.96	8/16/06	14.78	---	0.00	---	15.30	0.00	971.18
RW-2(X)	985.96	8/21/06	13.75	---	0.00	---	15.30	0.00	972.21
RW-2(X)	985.96	8/30/06	14.15	---	0.00	---	15.30	0.00	971.81
RW-3(X)	980.28	8/2/06	9.20	---	0.00	43.00	44.40	1.40	971.08
RW-3(X)	980.28	8/9/06	9.30	---	0.00	42.90	44.40	1.50	970.98
RW-3(X)	980.28	8/16/06	9.70	---	0.00	42.80	44.40	1.60	970.58
RW-3(X)	980.28	8/21/06	10.80	---	0.00	42.90	44.40	1.50	969.48
RW-3(X)	980.28	8/30/06	9.10	---	0.00	42.60	44.40	1.80	971.18
Housatonic River									
SG-HR-1	990.73	8/2/06	19.89	See Note 7 regarding depth to water					970.84
SG-HR-1	990.73	8/9/06	19.70	See Note 7 regarding depth to water					971.03
SG-HR-1	990.73	8/16/06	16.73	See Note 7 regarding depth to water					974.00
SG-HR-1	990.73	8/23/06	19.55	See Note 7 regarding depth to water					971.18
SG-HR-1	990.73	8/30/06	19.50	See Note 7 regarding depth to water					971.23

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 21-10
ACTIVE RECOVERY SYSTEMS MONTHLY SUMMARY
LYMAN STREET AREA
GROUNDWATER MANAGEMENT AREA 1

CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
August 2006

Month / Year	Volume Water Pumped (gallon)	RW-1 DNAPL Recovered (gallon)	RW-1R LNAPL Recovered (gallon)	RW-3 LNAPL Recovered (gallon)
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	--	--	--
August 2006	216,359	--	--	--

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 8 hours of downtime for RW-1/1R. There was no downtime for RW-2 or RW-3 during August 2006.

TABLE 21-11
MEASUREMENT AND REMOVAL OF RECOVERABLE LNAPL
LYMAN STREET AREA
GROUNDWATER MANAGEMENT AREA 1

CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
August 2006

Well Name	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	LNAPL Removed (liters)	August 2006 Removal (liters)
LS-31	8/30/06	14.50	14.10	0.40	0.247	0.247

Total Manual LNAPL Removal for August 2006: 0.247 liters
0.065 gallons

Note:
1. ft BMP - feet Below Measuring Point.

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
August 2006

Well Name	Date	Depth to Water (ft BMP)	Depth to DNAPL (ft BMP)	DNAPL Thickness (feet)	DNAPL Removed (liters)	August 2006 Removal (liters)
LS-30	8/30/06	14.40	19.50	2.7	1.67	1.67
LSSC-07	8/2/06	11.35	24.70	0.38	0.234	1.111
	8/9/06	11.41	24.65	0.43	0.265	
	8/16/06	11.60	24.72	0.36	0.222	
	8/23/06	11.30	24.78	0.30	0.185	
	8/30/06	11.35	24.75	0.33	0.204	
LSSC-08I	8/16/06	13.10	23.37	0.01	0.006	0.012
	8/23/06	12.75	23.35	0.01	0.006	

Total Manual DNAPL Removal for August 2006: 1.123 liters
0.296 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
August 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	8/30/06	12.60	---	0.00	---	22.65	0.00	970.44
LS-24	986.58	8/30/06	14.28	---	0.00	---	15.06	0.00	972.30
LS-30	986.440	8/30/06	14.40	---	0.00	19.50	22.20	2.70	972.04
LS-31	987.090	8/30/06	14.50	14.10	0.40	23.10	23.32	0.22	972.96
LS-38	986.95	8/30/06	16.06	---	0.00	---	25.04	0.00	970.89
LS-44	980.78	8/30/06	10.20	---	0.00	---	24.78	0.00	970.58
LSSC-07	982.48	8/2/06	11.35	---	0.00	24.70	25.08	0.38	971.13
LSSC-07	982.48	8/9/06	11.41	---	0.00	24.65	25.08	0.43	971.07
LSSC-07	982.48	8/16/06	11.60	---	0.00	24.72	25.08	0.36	970.88
LSSC-07	982.48	8/23/06	11.30	---	0.00	24.78	25.08	0.30	971.18
LSSC-07	982.48	8/30/06	11.35	---	0.00	24.75	25.08	0.33	971.13
LSSC-08I	983.13	8/2/06	12.94	---	0.00	---	23.39	0.00	970.19
LSSC-08I	983.13	8/9/06	12.93	---	0.00	---	23.38	0.00	970.20
LSSC-08I	983.13	8/16/06	13.10	---	0.00	23.37	23.38	0.01	970.03
LSSC-08I	983.13	8/23/06	12.75	---	0.00	23.35	23.36	0.01	970.38
LSSC-08I	983.13	8/30/06	12.80	---	0.00	---	23.37	0.00	970.33
LSSC-08S	983.11	8/30/06	12.82	---	0.00	---	14.68	0.00	970.29
LSSC-16I	980.88	8/30/06	9.65	---	0.00	---	28.53	0.00	971.23
LSSC-18	987.32	8/30/06	14.97	---	0.00	---	18.58	0.00	972.35
LSSC-32	980.68	8/30/06	9.77	---	0.00	---	35.24	0.00	970.91
LSSC-33	980.49	8/30/06	9.60	---	0.00	---	29.24	0.00	970.89
RW-1	984.88	8/2/06	12.70	---	0.00	P	21.00	< 0.01	972.18
RW-1	984.88	8/9/06	12.81	---	0.00	P	21.00	< 0.01	972.07
RW-1	984.88	8/16/06	13.00	---	0.00	P	21.00	< 0.01	971.88
RW-1	984.88	8/21/06	12.80	---	0.00	P	21.00	< 0.01	972.08
RW-1	984.88	8/30/06	12.90	---	0.00	P	21.00	< 0.01	971.98
RW-1 (R)	985.07	8/2/06	14.80	---	0.00	P	20.42	< 0.01	970.27
RW-1 (R)	985.07	8/9/06	14.69	---	0.00	P	20.42	< 0.01	970.38
RW-1 (R)	985.07	8/16/06	14.80	---	0.00	P	20.42	< 0.01	970.27
RW-1 (R)	985.07	8/21/06	15.75	---	0.00	P	20.42	< 0.01	969.32
RW-1 (R)	985.07	8/30/06	15.60	---	0.00	P	20.42	< 0.01	969.47
RW-2	987.82	8/2/06	14.85	---	0.00	---	21.75	0.00	972.97
RW-2	987.82	8/9/06	14.75	---	0.00	---	21.75	0.00	973.07
RW-2	987.82	8/16/06	15.30	---	0.00	---	21.75	0.00	972.52
RW-2	987.82	8/21/06	14.55	---	0.00	---	21.75	0.00	973.27
RW-2	987.82	8/30/06	15.10	---	0.00	---	21.75	0.00	972.72
RW-3	984.08	8/2/06	16.64	16.61	0.03	---	21.57	0.00	967.47
RW-3	984.08	8/9/06	16.58	16.45	0.13	---	21.57	0.00	967.62
RW-3	984.08	8/16/06	16.30	16.28	0.02	---	21.57	0.00	967.80
RW-3	984.08	8/21/06	16.60	16.50	0.10	---	21.57	0.00	967.57
RW-3	984.08	8/30/06	16.85	16.70	0.15	---	21.57	0.00	967.37

TABLE 21-13
ROUTINE WELL MONITORING
LYMAN STREET AREA
GROUNDWATER MANAGEMENT AREA 1

CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
August 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	8/2/06	16.48	See Note 5 regarding depth to water					969.84
BM-2A	986.32	8/9/06	16.40	See Note 5 regarding depth to water					969.92
BM-2A	986.32	8/16/06	16.50	See Note 5 regarding depth to water					969.82
BM-2A	986.32	8/23/06	16.35	See Note 5 regarding depth to water					969.97
BM-2A	986.32	8/30/06	16.38	See Note 5 regarding depth to water					969.94

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
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

CONSENT DECREE MONTHLY STATUS REPORT
GROUNDWATER MANAGEMENT AREA 1 - NEWELL STREET AREA II
MEASUREMENT AND REMOVAL OF RECOVERABLE DNAPL
August 2006

Well Name	Date	Depth to Water (ft BMP)	Depth to DNAPL (ft BMP)	DNAPL Thickness (feet)	DNAPL Removed (liters)	August 2006 Removal (liters)
N2SC-01I	8/30/06	12.35	36.30	4.10	2.530	2.530
N2SC-03I	8/30/06	10.90	35.40	2.35	1.450	1.450
N2SC-08	8/30/06	11.94	38.80	2.35	1.45	1.450
NS-30	8/30/06	10.60	34.40	0.70	0.432	0.432
NS-32	8/30/06	11.61	37.75	0.25	0.154	0.154

Total DNAPL Removal for August 2006: 6.015 liters
1.587 gallons

Note:
1. ft BMP - feet Below Measuring Point.

TABLE 21-15
ROUTINE WELL MONITORING
NEWELL STREET AREA II
GROUNDWATER MANAGEMENT AREA 1

CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
August 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)
N2SC-01I	984.99	8/2/06	13.55	---	0.00	37.10	40.45	3.35	971.44
N2SC-01I	984.99	8/9/06	12.55	---	0.00	36.25	40.40	4.15	972.44
N2SC-01I	984.99	8/16/06	12.60	---	0.00	36.50	40.40	3.90	972.39
N2SC-01I	984.99	8/23/06	12.60	---	0.00	36.50	40.40	3.90	972.39
N2SC-01I	984.99	8/30/06	12.35	---	0.00	36.30	40.40	4.10	972.64
N2SC-01I(R)	986.01	8/2/06	13.91	---	0.00	39.20	40.60	1.40	972.10
N2SC-02	985.56	8/30/06	11.50	---	0.00	---	38.35	0.00	974.06
N2SC-03I	986.24	8/2/06	10.93	---	0.00	35.30	37.79	2.49	975.31
N2SC-03I	986.24	8/9/06	11.05	---	0.00	35.35	37.80	2.45	975.19
N2SC-03I	986.24	8/16/06	11.15	---	0.00	35.55	37.75	2.20	975.09
N2SC-03I	986.24	8/23/06	12.91	---	0.00	35.80	37.75	1.95	973.33
N2SC-03I	986.24	8/30/06	10.90	---	0.00	35.40	37.75	2.35	975.34
N2SC-03I(R)	985.86	8/2/06	13.60	---	0.00	37.90	40.60	2.70	972.26
N2SC-03I(R)	985.86	8/9/06	13.65	---	0.00	38.00	40.58	2.58	972.21
N2SC-03I(R)	985.86	8/16/06	12.85	---	0.00	36.80	39.55	2.75	973.01
N2SC-07	984.61	8/30/06	10.53	---	0.00	---	35.83	0.00	974.08
N2SC-08	986.07	8/30/06	11.94	---	0.00	38.80	41.15	2.35	974.13
N2SC-14	985.06	8/2/06	14.90	---	0.00	38.55	40.30	1.75	970.16
NS-15R	NA	8/2/06	11.18	---	0.00	---	19.04	0.00	NA
NS-15R	NA	8/9/06	11.20	---	0.00	---	19.00	0.00	NA
NS-15R	NA	8/16/06	11.40	---	0.00	---	19.00	0.00	NA
NS-15R	NA	8/23/06	11.04	---	0.00	---	14.00	0.00	NA
NS-15R	NA	8/30/06	11.02	---	0.00	---	19.03	0.00	NA
NS-30	985.99	8/2/06	10.70	---	0.00	34.45	35.15	0.70	975.29
NS-30	985.99	8/9/06	10.75	---	0.00	34.35	35.15	0.80	975.24
NS-30	985.99	8/16/06	10.90	---	0.00	34.30	35.10	0.80	975.09
NS-30	985.99	8/23/06	10.60	---	0.00	34.30	35.30	1.00	975.39
NS-30	985.99	8/30/06	10.60	---	0.00	34.40	35.10	0.70	975.39
NS-32	986.20	8/2/06	11.70	---	0.00	37.80	38.05	0.25	974.50
NS-32	986.20	8/9/06	11.70	---	0.00	37.85	38.04	0.19	974.50
NS-32	986.20	8/16/06	11.95	---	0.00	37.85	38.03	0.18	974.25
NS-32	986.20	8/23/06	11.62	---	0.00	37.70	38.00	0.30	974.58
NS-32	986.20	8/30/06	11.61	---	0.00	37.75	38.00	0.25	974.59

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 21-16
ROUTINE WELL MONITORING
SILVER LAKE AREA
GROUNDWATER MANAGEMENT AREA 1

CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
August 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	8/2/06	4.53	See Note 4 regarding depth to water					984.83
Silver Lake Gauge	980.30	8/9/06	4.58	See Note 4 regarding depth to water					984.88
Silver Lake Gauge	980.30	8/16/06	4.56	See Note 4 regarding depth to water					984.86
Silver Lake Gauge	980.30	8/23/06	4.98	See Note 4 regarding depth to water					985.28
Silver Lake Gauge	980.30	8/30/06	4.48	See Note 4 regarding depth to water					984.78

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 were 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)
(GECD320)
AUGUST 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

None

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 WELL MONITORING
GROUNDWATER MANAGEMENT AREA 2

CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
August 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 (Foot Bridge)									
GMA2-SG-1	989.82	8/30/06	17.08	See Note 2 regarding depth to water					972.74

Notes:

1. ft BMP - feet Below Measuring Point.
2. A survey reference point was established on the Oxbow 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)
AUGUST 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 106.877 liters (28.20 gallons) of LNAPL were removed by the automatic skimmer located in well 51-21 and an additional 4.960 liters (1.31 gallons) of LNAPL were manually removed from the wells in this area (see Table 23-6).

- Conducted soil gas investigation near Building 51, including sampling of soil gas as well as sampling of groundwater and LNAPL near the soil gas sample locations, as identified in Table 23-1.

- Collected and tankered approximately 455 gallons of drummed water from GMA 3 to Building 64G for treatment.

b. Sampling/Test Results Received

See attached tables.

c. Work Plans/Reports/Documents Submitted

Submitted Groundwater Quality Monitoring Interim Report for Spring 2006 (August 30, 2006).

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

- Continue ongoing groundwater and NAPL monitoring and recovery activities.

- 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

None

TABLE 23-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 2006

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Received by GE or BBL
Soil Gas Investigation	51-8	8/8/06	Water	SGS	VOC, SVOC	8/25/06
Soil Gas Investigation	51-8	8/8/06	NAPL	SGS	VOC, SVOC	8/25/06
Soil Gas Investigation	DUP-1 (51-8)	8/8/06	Water	SGS	VOC, SVOC	8/25/06
Soil Gas Investigation	DUP-1 (51-8)	8/8/06	NAPL	SGS	VOC, SVOC	8/25/06
Soil Gas Investigation	GMA3-10	8/8/06	Water	SGS	VOC, SVOC	8/25/06
Soil Gas Investigation	GMA3-10	8/8/06	NAPL	SGS	VOC, SVOC	8/25/06
Soil Gas Investigation	SG-51E	8/7/06	Air	Lancaster	VOC, SVOC	8/31/06
Soil Gas Investigation	SG-51S	8/7/06	Air	Lancaster	VOC, SVOC	8/31/06
Soil Gas Investigation	SG-51W	8/7/06	Air	Lancaster	VOC, SVOC	8/31/06
Soil Gas Investigation	SG-DUP-1 (SG-51S)	8/7/06	Air	Lancaster	VOC, SVOC	8/31/06
Soil Gas Investigation	UB-PZ-3	8/8/06	NAPL	SGS	VOC, SVOC	8/25/06
Soil Gas Investigation	UB-PZ-3	8/8/06	Water	SGS	VOC, SVOC	8/25/06

Notes:
1. Field duplicate sample locations are presented in parenthesis.
2. (f) - Indicates filtered analysis requested.

TABLE 23-2
DATA RECEIVED DURING AUGUST 2006

BASELINE SEMI-ANNUAL GROUNDWATER SAMPLING
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	2A 04/19/06	16A 04/20/06	39B-R 04/20/06	114B-R 04/20/06
Volatile Organics				
Benzene	--	--	1.4 J	0.021 J
Chlorobenzene	--	--	--	--
Ethylbenzene	--	ND(5.0)	ND(5.0)	ND(0.050)
Methylene Chloride	ND(0.50)	ND(5.0)	ND(5.0)	ND(0.050)
Toluene	--	--	0.70 J	ND(0.050)
Trichloroethene	--	ND(5.0)	--	ND(0.050)
Vinyl Chloride	ND(0.20)	ND(2.0)	ND(2.0)	0.013 J
Xylenes (total)	ND(1.0)	ND(10)	ND(10)	ND(0.10)
Total VOCs	--	--	--	0.32 J

Notes:
1. These results have been revised by the laboratory and supersede those results reported in Table 23-2 and Table 24-2 of the May 2006 CD Monthly Report.
2. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.
3. -- Sample results not revised by laboratory.

Data Qualifiers:

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

TABLE 23-3
NAPL DATA RECEIVED DURING AUGUST 2006

SOIL GAS INVESTIGATION
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	51-8 08/08/06	GMA3-10 08/08/06	UB-PZ-3 08/08/06
Volatile Organics			
Methylene Chloride	0.90 J [0.67 J]	0.77 J	0.73 J
Tetrachloroethene	0.55 J [0.47 J]	ND(1.0)	ND(1.0)
Trichloroethene	0.65 J [0.34 J]	ND(1.0)	ND(1.0)
Semivolatile Organics			
1,2,4-Trichlorobenzene	7.7 [8.1]	0.89 J	7.9
1,3-Dichlorobenzene	1.5 [1.5]	ND(1.0)	1.2
1,4-Dichlorobenzene	4.2 [4.0]	0.22 J	ND(1.0)
Naphthalene	ND(1.0) [0.29 J]	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 VOCs and selected SVOCs.
2. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.
3. Only those constituents detected in one or more samples are summarized.
4. Field duplicate sample results are presented in brackets.

Data Qualifiers:

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

TABLE 23-4
GROUNDWATER DATA RECEIVED DURING AUGUST 2006

SOIL GAS INVESTIGATION
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	51-8 08/08/06	GMA3-10 08/08/06	UB-PZ-3 08/08/06
Volatile Organics			
2-Butanone	0.0056 [0.0058]	0.0042 J	0.0042 J
Acetone	0.017 [0.018]	0.011	0.014
Toluene	0.00021 J [ND(0.0010)]	ND(0.0010)	ND(0.0010)
Trichloroethene	0.00096 J [0.0010]	ND(0.0010)	0.00027 J
Vinyl Chloride	0.0013 [0.0015]	ND(0.0010)	ND(0.0010)
Semivolatile Organics			
1,2,4-Trichlorobenzene	0.0014 [0.0012]	ND(0.0010)	0.0015
1,3-Dichlorobenzene	0.00048 J [0.00052 J]	ND(0.0010)	0.00030 J
1,4-Dichlorobenzene	0.0024 [0.0025]	0.00026 J	ND(0.0010)

Notes:

1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to SGS Environmental Services, Inc. for analysis of VOCs and selected SVOCs.
2. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.
3. Only those constituents detected in one or more samples are summarized.
4. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, semivolatiles)

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

TABLE 23-5
SOIL GAS DATA RECEIVED DURING AUGUST 2006

SOIL GAS INVESTIGATION
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in ug/m^3)

Parameter / Sample ID: / Date Collected:	SG-51E 08/07/06	SG-51S 08/07/06	SG-51W 08/07/06
Volatile Organics			
1,1,1-Trichloroethane	25	ND(55) [ND(55)]	ND(5.5)
1,1,2-trichloro-1,2,2-trifluoroethane	33	ND(77) [45 J]	ND(7.7)
1,1-Dichloroethane	2.3 J	ND(40) [ND(40)]	ND(4.0)
1,2,4-Trimethylbenzene	24	24 J [25 J]	240
1,2-Dichloroethane	ND(4.0)	ND(40) [11 J]	ND(4.0)
1,3,5-Trimethylbenzene	6.9	9.8 J [12 J]	57
1,3-butadiene	2.5 J	ND(44) [ND(44)]	3.3 J
2-Butanone	130	870 [770]	380
2-Hexanone	ND(8.2)	35 J [ND(82)]	ND(8.2)
4-Ethyltoluene	19	29 J [26 J]	110
4-Methyl-2-pentanone	4.4 J	ND(82) [ND(82)]	21
Acetone	270	3300 [3900]	480
Acetonitrile	ND(3.4)	48 [68]	ND(3.4)
Acrolein	ND(4.6)	46 J [46 J]	ND(4.6)
Benzene	3.5	9.9 J [12 J]	4.2
Carbon Disulfide	3.0 J	130 [140]	ND(3.1)
Carbon Tetrachloride	8.0	ND(63) [ND(63)]	ND(6.3)
Chlorodifluoromethane	ND(3.5)	ND(35) [59]	ND(3.5)
Chloroform	62	31 J [32 J]	1.5 J
cis-1,2-Dichloroethene	14	ND(40) [ND(40)]	ND(4.0)
Cumene	1.6 J	ND(49) [ND(49)]	6.9
Dichlorodifluoromethane	1.9 J	ND(49) [ND(49)]	ND(4.9)
Ethyl Acetate	ND(3.6)	49 [54]	9.2
Ethylbenzene	13	380 [360]	67
Heptane	9.4	44 [39 J]	11
Hexane	10	40 [50]	15
Isooctane	ND(4.7)	28 J [47]	2.0 J
m&p-Xylene	29	710 [670]	110
Methyl Methacrylate	ND(4.1)	ND(41) [89]	ND(4.1)
Methyl tert-butyl ether	2.1 J	49 [45]	13
Methylene Chloride	ND(3.5)	73 [190]	ND(3.5)
Octane	3.7 J	1200 [1100]	5.6
o-Xylene	12	160 [160]	58
Pentane	28	220 [220]	71
Propene	180	170 [170]	380
Styrene	1.7 J	17 J [16 J]	7.4
tert-Butyl Alcohol	1.4 J	ND(30) [ND(30)]	ND(3.0)
Tetrachloroethene	61	ND(68) [ND(68)]	ND(6.8)
Toluene	8.4	5700 [6000]	40
Trichloroethene	910	82 [81]	ND(5.4)
Trichlorofluoromethane	12	ND(56) [19 J]	21
Semivolatile Organics			
1,3-Dichlorobenzene	5.1 J	ND(60) [ND(60)]	11
Naphthalene	9.6	17 [17]	21

TABLE 23-5
SOIL GAS DATA RECEIVED DURING AUGUST 2006

SOIL GAS INVESTIGATION
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in ug/m^3)

Notes:

1. Samples were collected by BBL, an ARCADIS company (BBL), and submitted to Lancaster Laboratories for analysis of VOCs and selected SVOCs.
2. ND - Analyte was not detected. The number in parenthesis is the associated detection limit.
3. Only those constituents detected in one or more samples are summarized.
4. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, semivolatiles)

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

TABLE 23-6
MEASUREMENT AND REMOVAL OF RECOVERABLE LNAPL
GROUNDWATER MANAGEMENT AREA 3

CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
August 2006

Well Name	Date	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (feet)	LNAPL Removed (liters)	August 2006 Removal (liters)
51-08	8/16/06	12.65	11.50	1.15	0.680	2.006
	8/23/06	12.60	11.45	1.15	0.709	
	8/29/06	12.50	11.50	1.00	0.617	
51-16R	8/29/06	11.25	10.84	0.41	0.25	0.253
51-17	8/29/06	11.60	10.65	0.95	0.59	0.586
51-21	8/2/06	15.79	15.77	0.02	12.51	106.877
	8/9/06	16.08	P	< 0.01	15.92	
	8/16/06	16.70	16.30	0.40	15.92	
	8/21/06	16.05	16.03	0.02	29.18	
	8/30/06	16.03	16.00	0.03	33.35	
59-03R	8/29/06	12.56	12.00	0.56	0.40	0.395
GMA3-10	8/8/06	12.30	11.64	0.66	0.408	0.618
	8/16/06	12.15	11.81	0.34	0.210	
GMA3-12	8/2/06	12.23	11.90	0.33	0.816	0.816
GMA3-13	8/2/06	11.75	11.73	0.02	0.019	0.061
	8/9/06	11.90	11.88	0.02	0.012	
	8/16/06	12.00	11.96	0.04	0.024	
	8/29/06	12.02	12.01	0.01	0.006	
UB-PZ-3	8/8/06	12.76	12.48	0.28	0.173	0.225
	8/29/06	12.80	12.65	0.15	0.05	

Total Automated LNAPL Removal at well 51-21 for August 2006: 106.877 liters
28.20 Gallons

Total Manual LNAPL Removal at all other wells for August 2006: 4.960 liters
1.31 Gallons

Total LNAPL Removed for August 2006: 111.837 liters
29.51 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 23-7
ROUTINE WELL MONITORING
GROUNDWATER MANAGEMENT AREA 3

CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
August 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	8/29/06	10.63	10.60	0.03	---	11.41	0.00	985.84
51-06	997.36	8/29/06	11.20	---	0.00	---	14.56	0.00	986.16
51-07	997.08	8/29/06	9.00	---	0.00	---	11.24	0.00	988.08
51-08	997.08	8/2/06	12.65	11.25	1.40	---	14.66	0.00	985.73
51-08	997.08	8/8/06	12.88	11.36	1.52	---	14.70	0.00	985.61
51-08	997.08	8/9/06	12.75	11.40	1.35	---	14.70	0.00	985.59
51-08	997.08	8/16/06	12.65	11.50	1.15	---	14.68	0.00	985.50
51-08	997.08	8/23/06	12.60	11.45	1.15	---	14.67	0.00	985.55
51-08	997.08	8/29/06	12.50	11.50	1.00	---	14.69	0.00	985.51
51-09	997.70	8/29/06	11.56	---	0.00	---	11.60	0.00	986.14
51-11	994.37	8/29/06	9.30	---	0.00	---	13.54	0.00	985.07
51-12	996.55	8/29/06	7.73	---	0.00	---	13.34	0.00	988.82
51-13	997.42	8/29/06	Dry at 9.90 Feet		0.00	---	9.73	0.00	NA
51-14	996.77	8/29/06	11.45	---	0.00	---	14.80	0.00	985.32
51-15	996.43	8/29/06	11.14	10.95	0.19	---	14.40	0.00	985.47
51-16R	996.39	8/29/06	11.25	10.84	0.41	---	14.55	0.00	985.52
51-17	996.43	8/29/06	11.60	10.65	0.95	---	14.50	0.00	985.71
51-18	997.12	8/29/06	8.23	---	0.00	---	12.60	0.00	988.89
51-19	996.43	8/29/06	Well is Submerged Under Water			---	14.06	0.00	NA
51-21	1001.49	8/2/06	15.79	15.77	0.02	---	NM	0.00	985.72
51-21	1001.49	8/9/06	16.08	P	< 0.01	---	NM	0.00	985.41
51-21	1001.49	8/16/06	16.70	16.30	0.40	---	NM	0.00	985.16
51-21	1001.49	8/21/06	16.05	16.03	0.02	---	NM	0.00	985.46
51-21	1001.49	8/30/06	16.03	16.00	0.03	---	NM	0.00	985.49
59-01	997.52	8/29/06	Dry at 11.40 Feet		--	---	11.43	0.00	NA
59-03R	997.64	8/29/06	12.56	12.00	0.56	---	17.05	0.00	985.60
59-07	997.96	8/29/06	12.04	12.02	0.02	---	23.54	0.00	985.94
GMA3-10	997.54	8/2/06	11.98	11.52	0.46	---	17.96	0.00	985.99
GMA3-10	997.54	8/8/06	12.30	11.64	0.66	---	17.96	0.00	985.85
GMA3-10	997.54	8/9/06	12.10	11.70	0.40	---	17.93	0.00	985.81
GMA3-10	997.54	8/16/06	12.15	11.81	0.34	---	17.95	0.00	985.71
GMA3-10	997.54	8/23/06	12.03	11.81	0.22	---	17.96	0.00	985.71
GMA3-10	997.54	8/29/06	12.02	11.81	0.21	---	17.93	0.00	985.72
GMA3-11	997.25	8/29/06	9.96	---	0.00	---	18.30	0.00	987.29
GMA3-12	997.84	8/2/06	12.23	11.90	0.33	---	21.24	0.00	985.92
GMA3-12	997.84	8/9/06	12.20	12.09	0.11	---	21.24	0.00	985.74
GMA3-12	997.84	8/16/06	12.31	12.15	0.16	---	21.22	0.00	985.68
GMA3-12	997.84	8/23/06	12.30	12.18	0.12	---	21.24	0.00	985.65
GMA3-12	997.84	8/29/06	12.30	12.12	0.18	---	21.20	0.00	985.71
GMA3-13	997.73	8/2/06	11.75	11.73	0.02	---	17.70	0.00	986.00
GMA3-13	997.73	8/9/06	11.90	11.88	0.02	---	17.68	0.00	985.85
GMA3-13	997.73	8/16/06	12.00	11.96	0.04	---	17.68	0.00	985.77
GMA3-13	997.73	8/23/06	11.96	---	0.00	---	17.62	0.00	985.77
GMA3-13	997.73	8/29/06	12.02	12.01	0.01	---	17.64	0.00	985.72
GMA3-14	997.42	8/29/06	10.97	---	0.00	---	16.83	0.00	986.45

TABLE 23-7
ROUTINE WELL MONITORING
GROUNDWATER MANAGEMENT AREA 3

CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
August 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)
UB-MW-10	995.99	8/29/06	10.40	---	0.00	---	14.95	0.00	985.59
UB-PZ-3	998.15	8/8/06	12.76	12.48	0.28	---	13.40	0.00	985.65
UB-PZ-3	998.15	8/29/06	12.80	12.65	0.15	---	13.42	0.00	985.49

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. 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)
(GECD340)
AUGUST 2006

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

a. Activities Undertaken/Completed

- Conducted routine groundwater elevation monitoring at well GMA4-3.
- Conducted drum sampling at Building 78 of monitoring well purge water, as identified in Table 24-1.

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 monitoring at well GMA4-3.
- Submit Groundwater Quality Monitoring Interim Report for Spring 2006 (originally due to EPA by August 30, 2006) (see Item 24.e below).

e. General Progress/Unresolved Issues/Potential Schedule Impacts

EPA and GE agreed that GE would defer submittal of the Groundwater Quality Monitoring Interim Report for Spring 2006 (originally due by August 30, 2006) to a later date to be agreed upon by EPA and GE. Based on discussions with EPA, GE will submit that report in September 2006.

f. Proposed/Approved Work Plan Modifications

None

TABLE 24-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 2006

GROUNDWATER MANAGEMENT AREA 4
GENERAL ELECTRIC COMPANY - PITTSFIELD MASSACHUSETTS

Project Name	Field Sample ID	Sample Date	Matrix	Laboratory	Analyses	Date Received by GE or BBL
Building 78 Purge Water Drum Sampling	BLDG78-F2145	8/16/06	Water	SGS	PCB, VOC, SVOC, Total Metals	
Building 78 Purge Water Drum Sampling	BLDG78-GMA-4-COMP	8/16/06	Water	SGS	PCB, VOC, SVOC, Total Metals	

TABLE 24-2
ROUTINE WELL MONITORING
GROUNDWATER MANAGEMENT AREA 4

CONSENT DECREE MONTHLY STATUS REPORT
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
August 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)
GMA4-3	1,003.95	8/29/06	18.15	---	0.00	---	26.25	0.00	985.80

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.

Attachment A

NPDES Sampling Records and Results
August 2006

BBL®
an ARCADIS company

TABLE A-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 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-A7473	8/1/06	Water	Columbia	Oil & Grease	8/8/06
NPDES Sampling	001-A7475	8/1/06	Water	Accutest	PCB	8/17/06
NPDES Sampling	001-A7488	8/7/06	Water	Columbia	TSS	8/15/06
NPDES Sampling	005-A7460/A7461	7/25/06	Water	Accutest	PCB	8/15/06
NPDES Sampling	005-A7477/A7478	8/1/06	Water	Accutest	PCB	8/17/06
NPDES Sampling	005-A7489/A7490	8/7/06	Water	Accutest	PCB	8/24/06
NPDES Sampling	005-A7501/A7502	8/7/06	Water	Columbia	TSS, BOD	8/16/06
NPDES Sampling	005-A7516/A7517	8/15/06	Water	Accutest	PCB	8/28/06
NPDES Sampling	005-A7528/A7529	8/21/06	Water	Accutest	PCB	
NPDES Sampling	005-A7539/A7540	8/28/06	Water	Accutest	PCB	
NPDES Sampling	05B-A7463	7/28/06	Water	Columbia	Oil & Grease	8/8/06
NPDES Sampling	05B-A7465	7/28/06	Water	Accutest	PCB	8/15/06
NPDES Sampling	06A-A7466	7/28/06	Water	Columbia	Oil & Grease	8/8/06
NPDES Sampling	06A-A7468	7/28/06	Water	Accutest	PCB	8/15/06
NPDES Sampling	09B-A7458	7/24/06	Water	Columbia	TSS, BOD	8/1/06
NPDES Sampling	09B-A7489	7/31/06	Water	Columbia	TSS, BOD	8/8/06
NPDES Sampling	09B-A7499	8/7/06	Water	Columbia	TSS, BOD	8/16/06
NPDES Sampling	09B-A7518	8/15/06	Water	Columbia	TSS, BOD	8/24/06
NPDES Sampling	09B-A7531	8/21/06	Water	Columbia	TSS, BOD	
NPDES Sampling	09B-A7541	8/29/06	Water	Columbia	TSS, BOD	
NPDES Sampling	09C-A7450	7/22/06	Water	Columbia	Oil & Grease	8/1/06
NPDES Sampling	09C-A7452	7/23/06	Water	Columbia	Oil & Grease	8/1/06
NPDES Sampling	09C-A7480	8/3/06	Water	Columbia	Oil & Grease	8/16/06
NPDES Sampling	09C-A7497	8/7/06	Water	Columbia	Oil & Grease	8/16/06
NPDES Sampling	09C-A7519	8/15/06	Water	Columbia	Oil & Grease	8/24/06
NPDES Sampling	09C-A7521	8/20/06	Water	Columbia	Oil & Grease	
NPDES Sampling	09C-A7532	8/27/06	Water	Columbia	Oil & Grease	
NPDES Sampling	64G-A7456	7/24/06	Water	Columbia	Oil & Grease	8/1/06
NPDES Sampling	64G-A7471	7/31/06	Water	Columbia	Oil & Grease	8/8/06
NPDES Sampling	64G-A7495	8/7/06	Water	Columbia	Oil & Grease	8/16/06
NPDES Sampling	64G-A7513	8/14/06	Water	Columbia	Oil & Grease	8/24/06
NPDES Sampling	64G-A7525	8/21/06	Water	Columbia	Oil & Grease	
NPDES Sampling	64G-A7536	8/28/06	Water	Columbia	Oil & Grease	

TABLE A-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 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	64T-A7454	7/24/06	Water	Columbia	Oil & Grease	8/1/06
NPDES Sampling	64T-A7469	7/31/06	Water	Columbia	Oil & Grease	8/8/06
NPDES Sampling	64T-A7492	8/7/06	Water	Columbia	Oil & Grease	8/16/06
NPDES Sampling	64T-A7511	8/14/06	Water	Columbia	Oil & Grease	8/24/06
NPDES Sampling	64T-A7523	8/21/06	Water	Columbia	Oil & Grease	
NPDES Sampling	64T-A7534	8/28/06	Water	Columbia	Oil & Grease	
NPDES Sampling	A7406R	7/10/06	Water	Aquatec	Chronic Toxicity Test	8/1/06
NPDES Sampling	A7407C	7/10/06	Water	Aquatec	Chronic Toxicity Test	8/1/06
NPDES Sampling	A7408R	7/12/06	Water	Aquatec	Chronic Toxicity Test	8/1/06
NPDES Sampling	A7409C	7/12/06	Water	Aquatec	Chronic Toxicity Test	8/1/06
NPDES Sampling	A7410R	7/14/06	Water	Aquatec	Chronic Toxicity Test	8/1/06
NPDES Sampling	A7411C	7/14/06	Water	Aquatec	Chronic Toxicity Test	8/1/06
NPDES Sampling	A7482R	8/7/06	Water	Aquatec	Acute Toxicity Test	8/24/06
NPDES Sampling	A7482R	8/7/06	Water	Aquatec	Chronic Toxicity Test	8/24/06
NPDES Sampling	A7482RCN	8/7/06	Water	Columbia	CN	8/18/06
NPDES Sampling	A7482RTM	8/7/06	Water	Columbia	Metals (10)	8/18/06
NPDES Sampling	A7483C	8/7/06	Water	Aquatec	Acute Toxicity Test	8/24/06
NPDES Sampling	A7483C	8/7/06	Water	Aquatec	Chronic Toxicity Test	8/24/06
NPDES Sampling	A7483CCN	8/7/06	Water	Columbia	CN	8/18/06
NPDES Sampling	A7483CDM	8/7/06	Water	Columbia	Filtered Metals (8)	8/18/06
NPDES Sampling	A7483CTM	8/7/06	Water	Columbia	Metals (10)	8/18/06
NPDES Sampling	A7484R	8/9/06	Water	Aquatec	Chronic Toxicity Test	8/24/06
NPDES Sampling	A7484RCN	8/9/06	Water	Columbia	CN	8/17/06
NPDES Sampling	A7484RTM	8/9/06	Water	Columbia	Metals (10)	8/17/06
NPDES Sampling	A7485C	8/9/06	Water	Aquatec	Chronic Toxicity Test	8/24/06
NPDES Sampling	A7485CCN	8/9/06	Water	Columbia	CN	8/17/06
NPDES Sampling	A7485CDM	8/9/06	Water	Columbia	Filtered Metals (8)	8/17/06
NPDES Sampling	A7485CTM	8/9/06	Water	Columbia	Metals (10)	8/17/06
NPDES Sampling	A7486R	8/11/06	Water	Aquatec	Chronic Toxicity Test	8/24/06
NPDES Sampling	A7486RCN	8/11/06	Water	Columbia	CN	8/22/06
NPDES Sampling	A7486RTM	8/11/06	Water	Columbia	Metals (10)	8/22/06
NPDES Sampling	A7487C	8/11/06	Water	Aquatec	Chronic Toxicity Test	8/24/06
NPDES Sampling	A7487CCN	8/11/06	Water	Columbia	CN	8/22/06
NPDES Sampling	A7487CDM	8/11/06	Water	Columbia	Filtered Metals (8)	8/22/06

TABLE A-1
DATA RECEIVED AND/OR SAMPLES COLLECTED DURING AUGUST 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	A7487CTM	8/11/06	Water	Columbia	Metals (10)	8/22/06
NPDES Sampling	AUG06WK1	8/1/06	Water	Columbia	Cu, Pb, Zn	8/8/06
NPDES Sampling	AUG06WK3	8/15/06	Water	Columbia	Cu, Pb, Zn	8/24/06
NPDES Sampling	AUG06WK4	8/21/06	Water	Columbia	Cu, Pb, Zn	
NPDES Sampling	JUL06WK5	7/25/06	Water	Columbia	Cu, Pb, Zn	8/1/06
NPDES Sampling	SEP06WK1	8/29/06	Water	Columbia	Cu, Pb, Zn	

TABLE A-2
DATA RECEIVED DURING AUGUST 2006

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

Parameter / Sample ID: / Date Collected:	001-A7473 08/01/06	001-A7475 08/01/06	001-A7488 08/07/06	005-A7460/A7461 07/25/06	005-A7477/A7478 08/01/06	005-A7489/A7490 08/07/06	005-A7501/A7502 08/07/06
PCBs-Unfiltered							
Aroclor-1260	NA	ND(0.000050)	NA	ND(0.000050)	ND(0.000050)	ND(0.000050)	NA
Total PCBs	NA	ND(0.000050)	NA	ND(0.000050)	ND(0.000050)	ND(0.000050)	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	ND(2.0)
Oil & Grease	ND(5.0)	NA	NA	NA	NA	NA	NA
Total Suspended Solids	NA	NA	6.10	NA	NA	NA	ND(1.01)

TABLE A-2
DATA RECEIVED DURING AUGUST 2006

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

Parameter / Sample ID: / Date Collected:	005-A7516/A7517 08/15/06	05B-A7463 07/28/06	05B-A7465 07/28/06	06A-A7466 07/28/06	06A-A7468 07/28/06	09B-A7458 07/24/06	09B-A7489 07/31/06	09B-A7499 08/07/06
PCBs-Unfiltered								
Aroclor-1260	ND(0.000050)	NA	0.0085	NA	0.0012	NA	NA	NA
Total PCBs	ND(0.000050)	NA	0.0085	NA	0.0012	NA	NA	NA
Inorganics-Unfiltered								
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Filtered								
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA
Conventionals								
Biological Oxygen Demand (5-day)	NA	NA	NA	NA	NA	ND(2.0)	ND(2.0)	ND(2.0)
Oil & Grease	NA	ND(5.0)	NA	ND(5.0)	NA	NA	NA	NA
Total Suspended Solids	NA	NA	NA	NA	NA	12.4	5.60	4.30

TABLE A-2
DATA RECEIVED DURING AUGUST 2006

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

Parameter / Sample ID: / Date Collected:	09B-A7518 08/15/06	09C-A7450 07/22/06	09C-A7452 07/23/06	09C-A7480 08/03/06	09C-A7497 08/07/06	09C-A7519 08/15/06	64G-A7456 07/24/06	64G-A7471 07/31/06	64G-A7495 08/07/06
PCBs-Unfiltered									
Aroclor-1260	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	NA	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)	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	NA	ND(5.2)	ND(5.2)	ND(5.2)	ND(5.3)	ND(5.0)	ND(5.2)	ND(5.0)	ND(5.3)
Total Suspended Solids	5.00	NA	NA	NA	NA	NA	NA	NA	NA

TABLE A-2
DATA RECEIVED DURING AUGUST 2006

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

Parameter / Sample ID: / Date Collected:	64G-A7513 08/14/06	64T-A7454 07/24/06	64T-A7469 07/31/06	64T-A7492 08/07/06	64T-A7511 08/14/06	A7482RCN 08/07/06	A7482RTM 08/07/06	A7483CCN 08/07/06
PCBs-Unfiltered								
Aroclor-1260	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Unfiltered								
Aluminum	NA	NA	NA	NA	NA	NA	ND(0.100)	NA
Cadmium	NA	NA	NA	NA	NA	NA	ND(0.00500)	NA
Calcium	NA	NA	NA	NA	NA	NA	27.4	NA
Chromium	NA	NA	NA	NA	NA	NA	ND(0.0100)	NA
Copper	NA	NA	NA	NA	NA	NA	ND(0.0200)	NA
Cyanide	NA	NA	NA	NA	NA	ND(0.0100)	NA	0.0279
Lead	NA	NA	NA	NA	NA	NA	ND(0.00500)	NA
Magnesium	NA	NA	NA	NA	NA	NA	9.59	NA
Nickel	NA	NA	NA	NA	NA	NA	ND(0.0400)	NA
Silver	NA	NA	NA	NA	NA	NA	ND(0.0100)	NA
Zinc	NA	NA	NA	NA	NA	NA	ND(0.0200)	NA
Inorganics-Filtered								
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA
Conventionals								
Biological Oxygen Demand (5-day)	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	ND(5.0)	ND(5.2)	ND(5.0)	ND(5.2)	ND(5.0)	NA	NA	NA
Total Suspended Solids	NA	NA	NA	NA	NA	NA	NA	NA

TABLE A-2
DATA RECEIVED DURING AUGUST 2006

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

Parameter / Sample ID: / Date Collected:	A7483CDM 08/07/06	A7483CTM 08/07/06	A7484RCN 08/09/06	A7484RTM 08/09/06	A7485CCN 08/09/06	A7485CDM 08/09/06	A7485CTM 08/09/06	A7486RCN 08/11/06
PCBs-Unfiltered								
Aroclor-1260	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics-Unfiltered								
Aluminum	NA	ND(0.100)	NA	ND(0.100)	NA	NA	ND(0.100)	NA
Cadmium	NA	ND(0.00500)	NA	ND(0.00500)	NA	NA	ND(0.00500)	NA
Calcium	NA	68.6	NA	20.7	NA	NA	86.8	NA
Chromium	NA	ND(0.0100)	NA	ND(0.0100)	NA	NA	ND(0.0100)	NA
Copper	NA	ND(0.0200)	NA	ND(0.0200)	NA	NA	ND(0.0200)	NA
Cyanide	NA	NA	ND(0.0100)	NA	0.0444	NA	NA	ND(0.0100)
Lead	NA	ND(0.00500)	NA	ND(0.00500)	NA	NA	ND(0.00500)	NA
Magnesium	NA	28.5	NA	7.31	NA	NA	37.8	NA
Nickel	NA	ND(0.0400)	NA	ND(0.0400)	NA	NA	ND(0.0400)	NA
Silver	NA	ND(0.0100)	NA	ND(0.0100)	NA	NA	ND(0.0100)	NA
Zinc	NA	ND(0.0200)	NA	ND(0.0200)	NA	NA	ND(0.0200)	NA
Inorganics-Filtered								
Aluminum	ND(0.100)	NA	NA	NA	NA	ND(0.100)	NA	NA
Cadmium	ND(0.00500)	NA	NA	NA	NA	ND(0.00500)	NA	NA
Chromium	ND(0.0100)	NA	NA	NA	NA	ND(0.0100)	NA	NA
Copper	ND(0.0200)	NA	NA	NA	NA	ND(0.0200)	NA	NA
Lead	ND(0.00500)	NA	NA	NA	NA	ND(0.00500)	NA	NA
Nickel	ND(0.0400)	NA	NA	NA	NA	ND(0.0400)	NA	NA
Silver	ND(0.0100)	NA	NA	NA	NA	ND(0.0100)	NA	NA
Zinc	0.0252	NA	NA	NA	NA	ND(0.0200)	NA	NA
Conventionals								
Biological Oxygen Demand (5-day)	NA	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	NA	NA	NA	NA	NA	NA	NA	NA

TABLE A-2
DATA RECEIVED DURING AUGUST 2006

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

Parameter / Sample ID: / Date Collected:	A7486RTM 08/11/06	A7487CCN 08/11/06	A7487CDM 08/11/06	A7487CTM 08/11/06	AUG06WK1 08/01/06	AUG06WK3 08/15/06	JUL06WK5 07/25/06
PCBs-Unfiltered							
Aroclor-1260	NA	NA	NA	NA	NA	NA	NA
Total PCBs	NA	NA	NA	NA	NA	NA	NA
Inorganics-Unfiltered							
Aluminum	ND(0.100)	NA	NA	ND(0.100)	NA	NA	NA
Cadmium	ND(0.00500)	NA	NA	ND(0.00500)	NA	NA	NA
Calcium	27.8	NA	NA	87.2	NA	NA	NA
Chromium	ND(0.0100)	NA	NA	ND(0.0100)	NA	NA	NA
Copper	ND(0.0200)	NA	NA	ND(0.0200)	ND(0.0200)	ND(0.0200)	ND(0.0200)
Cyanide	NA	0.0197	NA	NA	NA	NA	NA
Lead	ND(0.00500)	NA	NA	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)
Magnesium	10.2	NA	NA	37.4	NA	NA	NA
Nickel	ND(0.0400)	NA	NA	ND(0.0400)	NA	NA	NA
Silver	ND(0.0100)	NA	NA	ND(0.0100)	NA	NA	NA
Zinc	ND(0.0200)	NA	NA	ND(0.0200)	ND(0.0200)	ND(0.0200)	ND(0.0200)
Inorganics-Filtered							
Aluminum	NA	NA	ND(0.100)	NA	NA	NA	NA
Cadmium	NA	NA	ND(0.00500)	NA	NA	NA	NA
Chromium	NA	NA	ND(0.0100)	NA	NA	NA	NA
Copper	NA	NA	ND(0.0200)	NA	NA	NA	NA
Lead	NA	NA	ND(0.00500)	NA	NA	NA	NA
Nickel	NA	NA	ND(0.0400)	NA	NA	NA	NA
Silver	NA	NA	ND(0.0100)	NA	NA	NA	NA
Zinc	NA	NA	ND(0.0200)	NA	NA	NA	NA
Conventionals							
Biological Oxygen Demand (5-day)	NA	NA	NA	NA	NA	NA	NA
Oil & Grease	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids	NA	NA	NA	NA	NA	NA	NA

Notes:
1. Samples were collected by General Electric Company and submitted to Accutest Laboratories and Columbia Analytical Services, Inc. for analysis of PCBs, 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.

Attachment B

NPDES Discharge Monitoring Reports
July 2006

BBL®
an ARCADIS company

Form Approved.
OMB No. 2040-0004

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	005 1
PERMIT NUMBER	DISCHARGE NUMBER

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

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	06	07	01	TO	06	07	31

*** NO DISCHARGE | | ***

NOTE: Read Instructions before completing this form.

PARAMETER		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 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	0	0	(26) LBS/DY	******	******	******		0	01/30	CP
	PERMIT REQUIREMENT	90 MO AVG	135 DAILY MX	LBS/DY	******	******	******	**** ****		ONCE/ MONTH	COMPOS
SOLIDS, TOTAL SUSPENDED 00530 T 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	0	0	(26) LBS/DY	******	******	******		0	01/30	CP
	PERMIT REQUIREMENT	188 MO AVG	270 DAILY MX	LBS/DY	******	******	******	**** ****		ONCE/ MONTH	COMPOS
OIL & GREASE 00556 T 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	******	24.6	(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 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	0	0	(26) LBS/DY	******	******	******		0	01/07	CP
	PERMIT REQUIREMENT	0.01 MO AVG	0.03 DAILY MX	LBS/DY	******	******	******	**** ****		WEEKLY	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLAN 50050 T 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	0.178	0.300	(03) MGD	*******	*******	*******		0	99/99	RC
	PERMIT REQUIREMENT	2.09 MO AVG	2.09 DAILY MX	MGD	*******	*******	*******	**** ****		CONTINUOUS	RECORD
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE	DATE		
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.	Michael T. Carroll SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	413 448-5902 AREA CODE / NUMBER	2006 YEAR	8 MO	23 DAY
TYPED OR PRINTED						

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.

Form Approved.
OMB No. 2040-0004

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	064 T	MAJOR
PERMIT NUMBER	DISCHARGE NUMBER	(SUBR W)
		F -- FINAL
		WASTEWATER TREATMENT (005)

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	06	07	01	TO	06	07	31

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

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	******	******		7.0	******	7.6	(12	0	99/99	RCDR
00400 T 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	******	******	**** ****	6.0 MINIMUM	******	9.0 MAXIMUM	SU SU		WEEKLY	RANG
DIBENZOFURAN	SAMPLE MEASUREMENT	******	******		******	NODI [6]	NODI [6]	(22			
81302 T 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	REPORT DAILY MX	PPT		ONCE/ MONTH	COMPO
	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		TELEPHONE	DATE		
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.	Michael T. Carroll	413 448-5902	2006	8	23
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	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.

Form Approved.
OMB No. 2040-0004

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	064 G
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	08	07	01	TO	08	07	31

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

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

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH 00400 T 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	******	******		7.5	******	7.6	(12 SU	0	99/99	RCDR
	PERMIT REQUIREMENT	******	******	**** ****	6 0 MINIMUM	******	9 0 MAXIMUM	SU		WEEKLY	RANG-G
BASE NEUTRALS & ACID (METHOD 625), TOTA 76030 T 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	******	******		******	NODI [9]	NODI [9]	(19			
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB
VOLATILE COMPOUNDS, (GC/MS) 78732 T 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	******	******		******	NODI [9]	NODI [9]	(19			
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO 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		TELEPHONE	DATE		
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.	M. T. Carroll	413 448-5902	2006	8	23
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE / NUMBER	YEAR	MO	DAY

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

SEE COMMENTS FOR 005. SEE PAGE 8 + 9 OF PERMIT.

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	007 1
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	06	07	01	TO	06	07	31

Form Approved.
OMB No. 2040-0004

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

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

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 W 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	*******	*******		*******			(15)			
	PERMIT REQUIREMENT	*******	*******	**** ****	*******	70 MO AVG	75 DAILY MX	DEG. F		ONCE/ MONTH	GRAB
PH 00400 W 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	*******	*******			*******		(12)			
	PERMIT REQUIREMENT	*******	*******	**** ****	6.0 MINIMUM	*******	9.0 MAXIMUM	SU		WEEKLY	RANG-
POLYCHLORINATED BIPHENYLS (PCBS) 39516 W 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	*******	*******		*******			(21)			
	PERMIT REQUIREMENT	*******	*******	**** ****	*******	REPORT MO AVG	REPORT DAILY MX	PPB		QTRLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 W 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT			(03)	*******	*******	*******				
	PERMIT REQUIREMENT	REPORT MO 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			TELEPHONE	DATE		
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.	M. T. Carroll	413 448-5902	2006	8	23
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE / NUMBER	YEAR	MO	DAY

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

Form Approved.
OMB No. 2040-0004

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 A	MAJOR
PERMIT NUMBER	DISCHARGE NUMBER	(SUBR W)

F - FINAL.
09A SAMPLE POINT BEFORE 009

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	06	07	01	TO	06	07	31

*** NO DISCHARGE [X] ***

NOTE: Read Instructions before completing this form.

PARAMETER		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 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT			(26)	******	******	******				
	PERMIT REQUIREMENT	106 MO AVG	438 DAILY MX	LBS/DY	******	******	******	**** ****		WEEKLY	COMPOS
SOLIDS, TOTAL SUSPENDED 00530 V 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT			(26)	******	******	******				
	PERMIT REQUIREMENT	213 MO AVG	876 DAILY MX	LBS/DY	******	******	******	**** ****		WEEKLY	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 V 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT			(03)	******	******	******				
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******	******	******	**** ****		CONTIN UOUS	RECORDR
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE	DATE		
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.	M. T. Carroll	413 448-5902	2006	8	23
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	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.

Form Approved.
OMB No. 2040-0004

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

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

*** NO DISCHARGE ( ) ***

NOTE: Read Instructions before completing this form.

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	06	07	01	TO	06	07	31

PARAMETER		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)	SAMPLE MEASUREMENT	0.02	0.1	(26) LBS/DY	******	******	******		0	01/DW	CP
00310 V 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	106 MO AVG	438 DAILY MX	LBS/DY	******	******	******	**** ****		WEEKLY	COMPD
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.5	5.7	(26)	~~******~~ 6.7 MTC	******	~~******~~ 7.0 MTC	~~SU~~ MTC	0	01/DW	GR
00530 V 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	213 MO AVG	876 DAILY MX	LBS/DY	******	******	******	**** ****		WEEKLY	COMPD
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	~~0.027~~ 1.5 MTC	~~0.340~~ 5.7 MTC	(03) ~~LBS/DY~~ MGD MTC	******	******	******		0	01/DW	CP
50050 V 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******	******	******	**** ****		CONTINUOUS	RECORD
	SAMPLE MEASUREMENT		~~2.8~~ MTC	~~LBS/DY~~ MTC			~~5.2~~ MTC	~~MG/L~~ MTC	~~0~~	~~01/DW~~ MTC	~~GR~~
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT					~~NODI [9]~~ MTC	~~NODI [9]~~ MTC				
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT	~~0.027~~ MTC	~~0.340~~ MTC	~~MGD~~ MTC					~~0~~	~~99/99~~ MTC	~~RC~~
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE	DATE		
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.	M. T. Carroll	413 448-5902	2006	8	25
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	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 09B.

Form Approved.
OMB No. 2040-0004

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 LOCATION GENERAL ELECTRIC COMPANY
PITTSFIELD MA 01201
ATTN: MICHAEL T CARROLL, EHS&F

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

MA0003891	009 1
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	06	07	01	TO	06	07	31

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

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

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	QUALITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
BOD, 5-DAY (20 DEG. C) 00310 V 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	0.02	0.1	(26) LBS/DY	******	******	******		0	01/DW	CP
	PERMIT REQUIREMENT	106 MO AVG	438 DAILY MX	LBS/DY	******	******	******	**** ****		WEEKLY	COMPO
PH 00400 V 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	******	******		6.7	******	7.6	(12) SU	0	01/DW	GR
	PERMIT REQUIREMENT	******	******	**** ****	6.0 MINIMUM	******	9.0 MAXIMUM	SU		WEEKLY	RANG-
SOLIDS, TOTAL SUSPENDED 00530 V 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	1.5	5.7	(26) LBS/DY	******	******	******		0	01/DW	CP
	PERMIT REQUIREMENT	213 MO AVG	876 DAILY MX	LBS/DY	******	******	******	**** ****		WEEKLY	COMPO
OIL & GREASE 00556 V 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	******	2.9	(26) LBS/DY	******	******	5.2	(19) MG/L	0	01/DW	GR
	PERMIT REQUIREMENT	******	438 DAILY MX	LBS/DY	******	******	15 DAILY MX	MG/L		WEEKLY	GRAB
POLYCHLORINATED BIPHENYLS (PCBS) 39516 V 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	******	******		******	NODI [9]	NODI [9]	(19)			
	PERMIT REQUIREMENT	******	******	**** ****	******	REPORT MO AVG	REPORT DAILY MX	MG/L		QTRLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLAN 50050 V 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	0.027	0.340	(03) MGD	******	******	******		0	99/99	RC
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	******	******	******	**** ****		CONTINUOUS	RECORD
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE	DATE		
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.	M. T. Carroll	413 448-5902	2006	8	23
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE / NUMBER	YEAR	MO	DAY

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.

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)*

Form Approved.
OMB No. 2040-0004

MA0003891	SUM A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	06	07	01	TO	06	07	31

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

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

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	******	0.3	(26) LBS/DY	******	******	******		0	03/30	CP
00665 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	REPORT DAILY MX	LBS/DY	******	******	******	**** ****		ONCE/ MONTH	COMPOS
NICKEL TOTAL RECOVERABLE	SAMPLE MEASUREMENT	******	0	(26) LBS/DY	******	******	******		0	03/30	CP
01074 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	REPORT DAILY MX	LBS/DY	******	******	******	**** ****		ONCE/ MONTH	COMPOS
SILVER TOTAL RECOVERABLE	SAMPLE MEASUREMENT	******	0	(26) LBS/DY	******	******	******		0	03/30	CP
01079 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	REPORT DAILY MX	LBS/DY	******	******	******	**** ****		ONCE/ MONTH	COMPOS
ZINC TOTAL RECOVERABLE	SAMPLE MEASUREMENT	******	0.2	(26) LBS/DY	******	******	******		0	01/07	CP
01094 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	REPORT DAILY MX	LBS/DY	******	******	******	**** ****		WEEKLY	COMPOS
ALUMINUM, TOTAL (AS AL)	SAMPLE MEASUREMENT	******	0.6	(26) LBS/DY	******	******	******		0	03/30	CP
01105 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	REPORT DAILY MX	LBS/DY	******	******	******	**** ****		ONCE/ MONTH	COMPOS
CADMIUM TOTAL RECOVERABLE	SAMPLE MEASUREMENT	******	0	(26) LBS/DY	******	******	******		0	03/30	CP
01113 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	REPORT DAILY MX	LBS/DY	******	******	******	**** ****		ONCE/ MONTH	COMPOS
LEAD TOTAL RECOVERABLE	SAMPLE MEASUREMENT	******	0.02	(26) LBS/DY	******	******	******		0	01/07	CP
01114 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	REPORT DAILY MX	LBS/DY	******	******	******	**** ****		WEEKLY	COMPOS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE	DATE		
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.	M. T. Carroll	413 448-5902	2006	8	23
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE / NUMBER	YEAR	MO	DAY

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

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)*

Form Approved.
OMB No. 2040-0004

MA0003891	SUM A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	06	07	01	TO	06	07	31

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

*** NO DISCHARGE | | ***

NOTE: Read Instructions before completing this form.

PARAMETER		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	(26) LBS/DY	******	******	******		0	03/30	CP
	PERMIT REQUIREMENT	******	REPORT DAILY MX	LBS/DY	******	******	******	**** ****		ONCE/ MONTH	COMPOSITE
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	COMPOSITE
CYANIDE, TOTAL RECOVERABLE 78248 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	0.09	(26) LBS/DY	******	******	******		0	03/30	CP
	PERMIT REQUIREMENT	******	REPORT DAILY MX	LBS/DY	******	******	******	**** ****		ONCE/ MONTH	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE	DATE		
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.	M. T. Carroll	413 448-5902	2006	8	23
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE / NUMBER	YEAR	MO	DAY

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

COMPOSITE PROPORTIONATE TO FLOW.

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	SUM B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	08	07	01	TO	08	07	31

Form Approved.
OMB No. 2040-0004

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

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

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
NOEL STAT 7DAY CHR C ERIODAPHNIA	SAMPLE MEASUREMENT	******	******		100	******	******	% (23)	0	01/30	CP
TBD3B 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	REPORT DAILY MN	******	******	PER-CENT		ONCE/ MONTH	COMPOS
NOAEL STAT 48HR ACU CERIODAPHNIA	SAMPLE MEASUREMENT	******	******		NODI [8]	******	******	(23)			
TDA3B 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	REPORT DAILY MN	******	******	PER-CENT		ONCE/ MONTH	COMPOS
NOAEL STATRE 48HR AC U D. PULEX	SAMPLE MEASUREMENT	******	******		100	******	******	% (23)	0	01/30	CP
TDM3D 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****	35 DAILY MN	******	******	PER-CENT		ONCE/ MONTH	COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE	DATE		
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.	M. T. Carroll	413 448-5902	2006	8	23
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	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. SUBMIT THIS DMR WITH A NODI '9' WHEN SUBMITTING WET WEATHER RESULTS ON DMR SUMC

Attachment C

NPDES Biomonitoring Report
August 2006

BBL®
an ARCADIS company

1 Mustard Street, Suite 250 Rochester, NY 14609-6925 (585) 288-5380 (585) 288-8475 fax

Columbia Analytical Services INC.
An Employee - Owned Company

August 23, 2006

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

Re: NPDES Biomonitoring Report for August 2006
Submission #: R2632759

Dear Mr. Nicholson:

Enclosed is our report on the Whole Effluent Toxicity testing conducted in August 2006. The Outfall Composite samples were collected on 8/7/06 at 11:00 am. The Housatonic River samples were collected on 8/7/06 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
Wet Weather Conditions
August 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
August 23, 2006

TABLE OF CONTENTS

I. Summary

On August 6-7, 2006 sampling of wastewater discharges from the General Electric Company facility in Pittsfield MA was conducted in accordance with the wet 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 August 7, 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 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 August 6-7, 2006 was tested for 48-hour acute toxicity using *Daphnia pulex* organisms. The sample did not require dechlorination with sodium thiosulfate ($Na_2S_2O_3$) 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:

Control Analysis	Result
Survival in 100% dilution water	100%
Survival in laboratory water	96%
Survival in laboratory water with 100 mg/L sodium thiosulfate	100%
LC_{50} for Daphnia pulex in sodium chloride reference toxicant solution	3.839g NaCl/L August 8, 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.

Table I – Summary of Analytical results for

NPDES Outfall Composite Sample and Housatonic River Dilution Water
August 6-7, 2006

Aquatic Toxicity Results: No Observed Effect Level (NOAEL) = 100%
LC50 = >100%

Chemical Analyses: (all results are mg/L unless otherwise indicated)

Parameter Tested	Laboratory	Effluent Composite	Housatonic River
Ammonia	CAS	0.567	ND (0.0500)
Chloride	CAS	152	18.2
Total Alkalinity	CAS	277	105
Total Organic Carbon	CAS	6.99	6.66
Total Phosphorus	CAS	0.0796	ND (0.0500)
Total Solids	CAS	554	159
Total Suspended Solids	CAS	2.60	2.70
Hardness	Aquatec	308	106
Spec. Conductance (umhos)	Aquatec	1032	327
pH (SU)	Aquatec	7.5	7.5
TRC (start of toxicity test)	Aquatec	ND	ND
Cyanide	CAS	0.0279	ND (0.0100)
Aluminum, total	CAS	ND (0.100)	ND (0.100)
Aluminum, dissolved	CAS	ND (0.100)	NA
Cadmium, total	CAS	ND (0.00500)	ND (0.00500)
Cadmium, dissolved	CAS	ND (0.00500)	NA
Chromium, total	CAS	ND (0.0100)	ND (0.0100)
Chromium, dissolved	CAS	ND (0.0100)	NA
Copper, total	CAS	ND (0.0200)	ND (0.0200)
Copper, dissolved	CAS	ND (0.0200)	NA
Lead, total	CAS	ND (0.00500)	ND (0.00500)
Lead, dissolved	CAS	ND (0.00500)	NA
Nickel, total	CAS	ND (0.0400)	ND (0.0400)
Nickel, dissolved	CAS	ND (0.0400)	NA
Silver, total	CAS	ND (0.0100)	ND (0.0100)
Silver, dissolved	CAS	ND (0.0100)	NA
Zinc, total	CAS	ND (0.0200)	ND (0.0200)
Zinc, dissolved	CAS	0.0252	NA
pH (SU)	OB&G	7.77	7.92
Hardness	Aquatec	308	106

All results are mg/L unless otherwise indicated.

ND – Not detected (Number in parentheses is detection limit.)

NA – Not analyzed

APPENDIX 1

Chemical and Acute Toxicity Data

Aquatec Biological Sciences

Aquatec Biological Sciences

Ecology | Environmental Toxicology | Natural Resource Assessments | Microbiology

August 22, 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 August 7, 2006. Please note that the report contains pages 21a and 21b due to a page that was inserted (EPA Region 1 form) after the automated page numbering had been completed.

According to the Chain-of-Custody documentation the samples for Whole Effluent Toxicity (WET) Testing were collected on August 7, 2006. The samples were transported to Aquatec Biological Sciences, Inc. by courier and delivered on the same day. The effluent sample (Sample 32565) was logged in for the acute 48-hour static toxicity test with *Daphnia pulex*. The receiving water sample (Sample 32566) 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 August 8, 2006, within the specified holding time.

At the conclusion of the toxicity test on August 10, 2006, a final count of surviving organisms was completed. The average survival was 96 - 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 - 44

273 Commerce Street, Williston, VT 05495 Tel: 802.860.1638 Fax: 802.658.3189

Whole Effluent Toxicity Testing Of Wastewaters Discharged from The General Electric Plant Pittsfield, Massachusetts

Samples Collected in August 2006

Submitted to:
General Electric
Area Environmental & Facility Programs
100 Woodlawn Avenue
Pittsfield, Massachusetts 01201

SDG number: 9752
Effluent ID: Outfall Composite A7483C Aquatec sample number: 32565
Receiving water ID: Housatonic River A7482R Aquatec sample number: 32566

Study Director: John Williams

August 22, 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

8/22/06
Date

Quality Assurance Officer
Philip C. Downey, Ph. D.

8/22/06
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: 8/22/06

Authorized signature

John Williams
Name

Manager, Environmental Toxicology
Title

Aquatec Biological Sciences, Inc.
Laboratory

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List of Tables

Summary
of
Static Acute Toxicity Test with *Daphnia pulex*

Sponsor:	General Electric
Protocol title:	US 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
Aquatec SDG:	9752
Test material:	Composite effluent from the General Electric Company located in Pittsfield, Massachusetts
GE sample ID:	OUTFALL COMPOSITE A7483C
Dilution water:	Water from the Housatonic River (grab sample)
GE sample ID:	HOUSATONIC RIVER A7482R
Dates collected:	August 7, 2006
Date received:	August 7, 2006
Test dates:	August 8 - 10, 2006
Test concentrations:	100%, 75%, 50%, 35%, 15%, 5% effluent. Dilution water control (Housatonic River A7482R) 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 August 8 - 10, 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 A7483C) was collected by GE personnel from August 6 - 7, 2006. The receiving water sample (Housatonic River A7482R) was a grab collected from the Housatonic River on August 7, 2006. Samples were delivered to Aquatec on the same day. Upon receipt at Aquatec on August 7, 2006, the temperature of the temperature blank contained within the cooler was 1.9°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 (7.4); dissolved oxygen (8.0 mg/L); conductivity (236 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 check 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 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), 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-Karber method, was 3.84 g NaCl/L with 95% confidence intervals of 3.41 – 4.32 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 A7483C	Housatonic River A7482R HOUSATONIC RIVER A7482R
Temperature	20.4	20.3
pH	7.5	7.5
Alkalinity (as $CaCO_3$), mg/L	268	92
Hardness (as $CaCO_3$), mg/L	308	106
Dissolved oxygen, mg/L	8.5	8.9
Specific conductivity, uS/cm	1032	327
Salinity ($^o/_{oo}$)	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, June 7 - 9, 2006.

Test Concentration (% effluent)	pH			Dissolved Oxygen (mg/L)			Temperature (°C)		
	0	24	48	0	24	48	0	24	48
Dechl. Control	7.7	-	7.4	8.1	-	8.2	20.9	20.5	20.8
Lab Control	7.4	-	7.4	8.0	-	8.2	20.8	20.5	21.0
Dilution Control	7.5	-	7.8	8.9	-	8.3	20.3	21.0	20.5
5%	7.5	-	7.8	8.9	-	8.4	20.4	20.4	20.4
15%	7.5	-	7.9	8.9	-	8.3	20.4	20.4	20.5
35%	7.5	-	8.0	8.8	-	8.3	20.4	20.6	20.7
50%	7.5	-	8.1	8.7	-	8.3	20.4	20.7	20.7
75%	7.5	-	8.2	8.6	-	8.3	20.4	20.5	20.5
100%	7.5	-	8.3	8.5	-	8.4	20.4	20.4	20.4

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, August 8 - 10, 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	0	0	0
Lab Control	0	0	0	0	0	0	0	20	0	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	20	0	4	0	0	0	20	0	4
35%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
75%	0	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0	0

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

Aquatec Biological Sciences
Chain-of-Custody Record

273 Commerce Street
Williston, VT 05495
TEL: (802) 860-1638
FAX: (802) 658-3189

COMPANY INFORMATION

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 Wasnewsky

COMPANY'S PROJECT INFORMATION

Project Name: GE PITTSFIELD
Outfall Composite
Project Number: 06004
Sampler Name(s): MARK WASNEWSKY
NPDES Permit #: MA0003891
Quote #: 10/05 Client Code: GEPITTS

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 8-7-06
Hand Delivered: ☑ Yes ☐ No

VOLUME/CONTAINER TYPE/ PRESERVATIVE

4°C	4°C	4°C H_2SO_4	4°C H_2SO_4	4°C	4°C HNO_3
Plastic	Plastic	Plastic	Glass	Amber Glass	Plastic
1 gal	1/2 gal	1 L	40 ml	250 ml	0.5 L

SAMPLE IDENTIFICATION	COLLECTION DATE	COLLECTION TIME	GRAB	COMPOSITE	MATRIX	ANALYSIS (detection limits, mg/L)	NUMBER OF CONTAINERS
Outfall Composite A7483C	8-7-06	1100 AM		✓	Effluent	*Daphnia pulex* 48-h Static Acute Toxicity (EPA Method 2021.0). Log in for A48DPS	1
Outfall Composite A7483C	↓	1100 AM		✓	Effluent	Total Residual Chlorine	1
Housatonic River A7482R	↓	815 AM	✓		Receiving	Dilution Water	1
Housatonic River A7482R	↓	815 AM	✓		Receiving	Total Residual Chlorine	1

Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*
Mark Wasnewsky	8-7-06	1312	
Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*
Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*

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.

1.9 °C

Notes to Lab: Ambient cooler temperature: ~~2.0~~°C. Dechlorinate the effluent sample if chlorine is detected.

Appendix 2
Summary of Test Conditions

Client: GENERAL ELECTRIC, PITTSFIELD, MA, MA0003891 **SDG: 9752**

Test Description: Daphnid, *Daphnia pulex*, acute toxicity test

ASSOCIATED PROTOCOL: EPA 2002, 5th ed. (EPA-821-R-02-012) *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, **Method 2002.0**

1. Test type:	Static, non-renewal
2. Test temperature:	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:	15-20 ml / replicate
7. Renewal of test concentrations:	None
8. Age of test organisms:	Less than 24 h
9. No. organisms / test chamber:	5
10. No. of replicate chambers / concentration:	5
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.
13. Cleaning:	None
14. Aeration:	None
15. Dilution water:	Receiving Water (Housatonic River)
16. Test concentrations:	5, 15, 35, 50, 75, 100%
17. Laboratory control:	1:1 mix of reconstituted moderately hard water and Lamoille River water. Dechlorination control.
18. Test duration:	48 h
19. Monitoring:	Day 0: temperature, DO, pH, and conductivity. Day 1: temperature, DO, pH, and conductivity. Day 2: temperature, DO, pH Hardness, alkalinity, salinity, TRC Biological monitoring daily (survival)
19. End points:	Survival
20. Reference toxicant test:	Sodium chloride 48-h LC50
21. Test acceptability	90% or greater
22. Data interpretation:	Acute: 48 h LC50 (Point estimate by EPA statistical flowchart using TOXIS 2) and A-NOEC by hypothesis test statistics compared to the receiving water control (EPA statistical flowchart using TOXIS 2)

Appendix 3
U.S. EPA Region 1 Toxicity Test Summary and Statistical Flow Chart

Aquatec Biological Sciences SDG: 9752

TOXICITY TEST SUMMARY SHEET

Facility Name: Outfall Composite A7483C Test Start Date 8/8/2006

NPDES Permit Number: MA0003891 Pipe Number: 001

Test Type	Test Species	Sample Type	Sampling Method
Acute	Daphnia pulex	Effluent	Composite

Dilution Water: Housatonic River

Receiving Water: Housatonic River

Effluent Sampling Dates: 8/7/06

Concentrations Tested: 0 5 15 35 50 75 100 Control Permit Limit: NA

Was Effluent Salinity Adjusted? NA If yes, to what value?

With Sea Salts? Hypersaline Brine Solution?

Actual effluent concentrations tested after salinity adjustment in percent: Same as above

Reference Toxicant Date: 8/8/06

PERMIT LIMITS and TEST RESULTS

Test Acceptability Criteria

Mean Control Survival: 100 (%)

	Limits (%)		Results (%)
LC50	NA	48-Hour LC50	>100
		Upper Value	
		Lower Value	
		Data Analysis Method	Direct Observation
A-NOEC		48-Hour A-NOEC	100
C-NOEC		C-NOEC	
		LOEC	
IC25		IC25	
IC50		IC50	

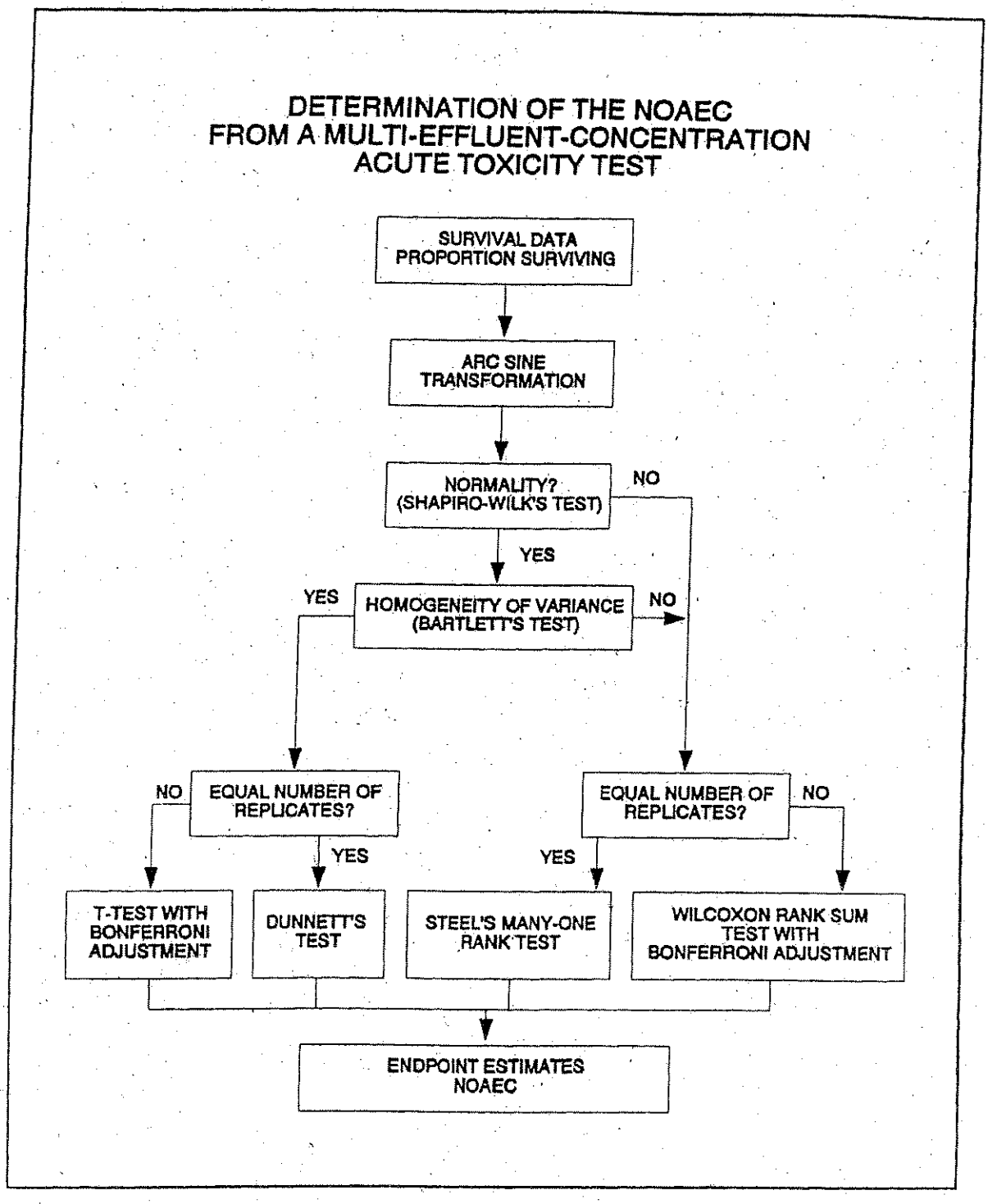


Figure 13. Flowchart for analysis of multi-effluent-concentration test data.

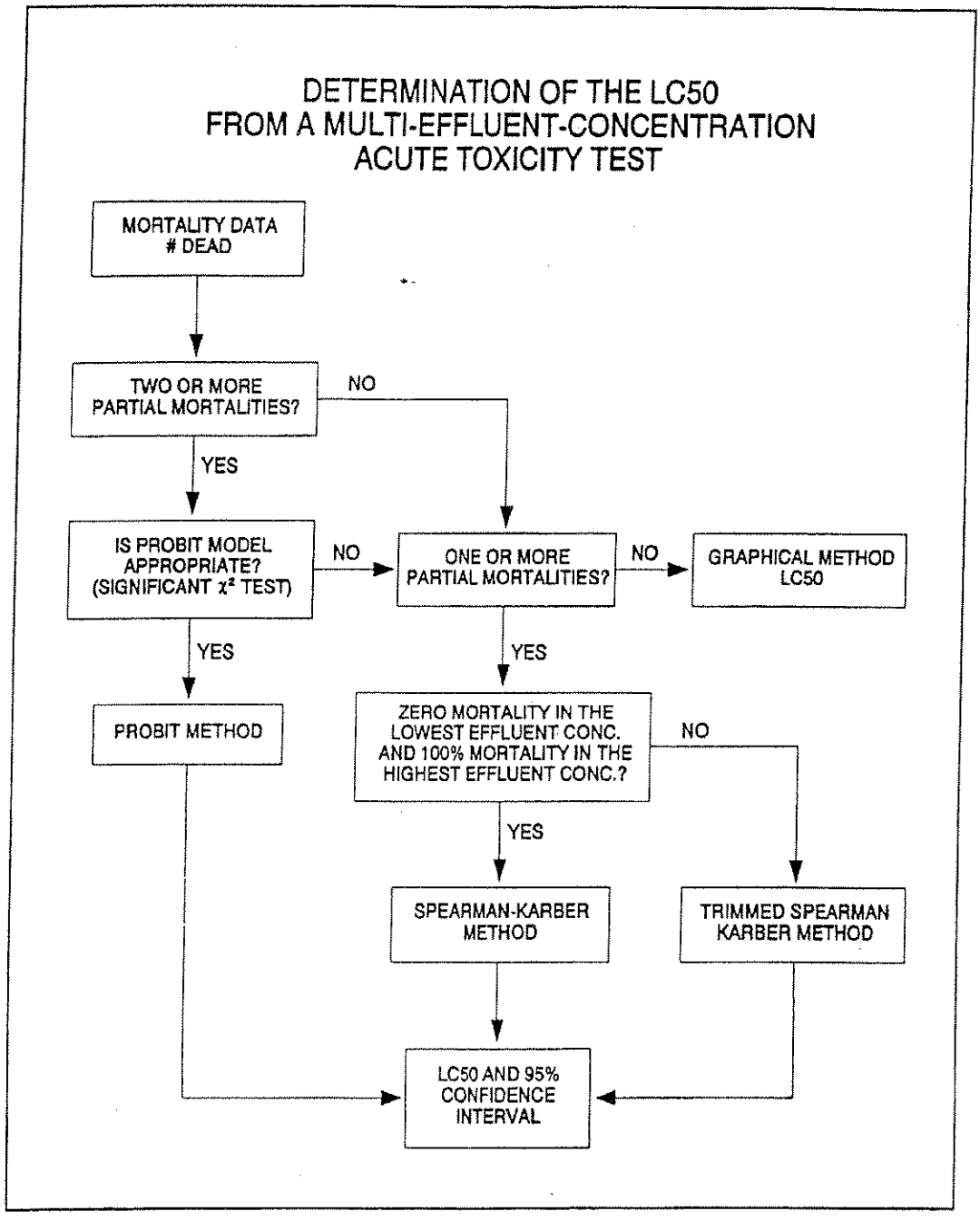


Figure 6. Flowchart for determination of the LC50 for multi-effluent-concentration acute toxicity tests.

Appendix 4
Bench Data, *Daphnia pulex* Acute Toxicity Test

Aquatec Biological Sciences, Inc.

Test Date: 8/08/06
Sample Date: 8/07/06
Species: Daphnia pulex
Test Type: Acute - 48 hours

Test Number: 48817
Test Material: Effluent - Industrial %
Source: MA0003891
General Electric Company
Pittsfield, MA

SUMMARY

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	1.30	.106	
			X	35.000	D	5	1.35	0.000	
			X	50.000	D	5	1.35	0.000	
			X	75.000	D	5	1.35	0.000	
			X	100.000	D	5	1.35	0.000	
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	.96	.089	
				35.000	D	5	1.00	0.000	
				50.000	D	5	1.00	0.000	
				75.000	D	5	1.00	0.000	
				100.000	D	5	1.00	0.000	

X = indicates concentrations used in calculations

- HYPOTHESIS TEST -

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	.002	.080

48-h LC50 : > 100% (Direct observation 8/22/06) JT

Aquatec Biological Sciences, Inc.

WATER FLEA TEST DATA

Test Number: 48817 ( ) Chronic (x) Acute 48 hours
Test Date: 8-Aug-06
Source: MA0003891 Test Material: EFF2 (%)

Conc	Rep	Cont. No.	Sex	Start	Daily Survival 1	2	3	4	5	6	End	Prop Alive	Total Young	Max Young
0.00 B	1		F	5							5	1.00		
0.00 B	2		F	5							4	.80		
0.00 B	3		F	5							5	1.00		
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							4	.80		
15.00 D	5		F	5							5	1.00		
35.00 D	1		F	5							5	1.00		
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							5	1.00		
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							5	1.00		
50.00 D	5		F	5							5	1.00		
75.00 D	1		F	5							5	1.00		
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							5	1.00		
100.00 D	5		F	5							5	1.00		

QC ✓
KS 8/10/06

Client: GENERAL ELECTRIC, PITTSFIELD, MA Test #: 48817 SDG: 9752
MA0003891
Test Description: *Daphnia pulex* 48-h daily renewal acute toxicity test

SURVIVAL DATA, SAMPLE 32565

Treatment (%)		Day 0	Day 1 # Surviving	Day 2 # Surviving
Rec.	A	5	5	5
Water	B	5	5	5
Contr	C	5	5	5
	D	5	5	5
	E	5	5	5
5.0	A	5	5	5
	B	5	5	5
	C	5	5	5
	D	5	5	5
	E	5	5	5
15	A	5	5	5
	B	5	5	5
	C	5	5	5
	D	5	4	4
	E	5	5	5
35	A	5	5	5
	B	5	5	5
	C	5	5	5
	D	5	5	5
	E	5	5	5
50	A	5	5	5
	B	5	5	5
	C	5	5	5
	D	5	5	5
	E	5	5	5
75	A	5	5	5
	B	5	5	5
	C	5	5	5
	D	5	5	5
	E	5	5	5
100	A	5	5	5
	B	5	5	5
	C	5	5	5
	D	5	5	5
	E	5	5	5
Sample #		32565		
I/D/T		KS 8/8 10:50	KS 8/9 11:05	KS 8/10 10:55

Aquatec Biological Sciences, Inc. Williston Vermont
Reviewed by: _____ Date: 8/22/01

Client: GENERAL ELECTRIC, PITTSFIELD, MA Test #: 48817 SDG: 9752
MA0003891
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	4
	C	5	5	5
	D	5	5	5
	E	5	4/5 KS	5
Dechlor.	A	5	5	5
Control	B	5	5	5
	C	5	5	5
	D	5	5	5
	E	5	5	5
I/D/T		KS 8/8 10:50	KS 8/9 11:00	KS 8/10 10:50

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.

Client: GENERAL ELECTRIC, PITTSFIELD, MA Test #: 48817 SDG: 9752
MA0003891 OUTFALL 001
Test Description: *Daphnia pulex* 48-h daily renewal acute toxicity test

Treatment (%)	Parameter	Day 0	Day 1	Day 2
Lab Contr	pH	7.4		7.4
	DO	8.0		8.2
	Temp	20.8	20.5	21.0
	Cond.	236	--	241
Dechlorination Control	pH	7.7		7.4
	DO	8.1		8.2
	Temp	20.9	20.5	20.8
	Cond.	271	--	267
Rec. Water Contr	pH	7.5		7.8
	DO	8.9		8.3
	Temp	20.3	21.0	20.5
	Cond.	327	--	287
5.0	pH	7.5		7.8
	DO	8.9		8.4
	Temp	20.4	20.4	20.4
	Cond.	361	--	323
15	pH	7.5		7.9
	DO	8.9		8.3
	Temp	20.4	20.4	20.5
	Cond.	423	--	391
35	pH	7.5		8.0
	DO	8.8		8.3
	Temp	20.4	20.6	20.7
	Cond.	599	--	531
50	pH	7.5		8.1
	DO	8.7		8.3
	Temp	20.4	20.7	20.7
	Cond.	671	--	635
75	pH	7.5		8.2
	DO	8.6		8.3
	Temp	20.4	20.5	20.5
	Cond.	844	--	811
100	pH	7.5		8.3
	DO	8.5		8.4
	Temp	20.4	20.4	20.4
	Cond.	1032	--	983
Sample #		32565	32565	32565
I/D ~~(2005)~~ 2006		KK 8-8-06	KS 8-9-06	KS 8-10-06

Aquatec Biological Sciences, Inc. Williston Vermont
Reviewed by: _____ Date: 8/22/06

Daphnia pulex Culture Log

CULTURE ID	WATER RENEWAL? (Lot#)	FED (MWF Sel/YCT TuTh Sel)	CLEARED OF NEONATES? (TIME)	Culture Beakers Washed?	Temp. (°C)	DATE	INIT.
7/12A,B,C	✓ 71606mHW	YC/Sel	✓ 10:00	—	20.9°C	7-21-06	JG
7/22 MASS	—	YC/Sel	—	✓	20.9°C	7-22-06	KK
7/12 A,B,C cultures ended, New cultures started from mass culture 7/22.				✓	21.0	7-24-06	KS
7/24 A,B,C 7/22	—	Sel	—	—	—	7-25-06	KS
↓	✓	YC/Sel	✓	—	21.0	7-26-06	KS
7/24 A,B,C 7/22	—	Sel	—	—	—	7-27-06	↓
7/24 A,B,C 7/22	✓	YC/Sel.	—	—	20.8°C	7-28-06	JG
↓	—	Sel	—	—	—	7-29-06	KS
7/24 A,B,C 7/22	—	Sel	—	—	—	7-30-06	KS
↓	✓	YC/Sel	✓	✓	21.0°C	7-31-06	↓
7/24 A,B,C 7/22	—	Sel	—	—	—	8-1-06	KS
↓	✓	YC/Sel	—	—	20.4°C	8-2-06	KK
7/24 A,B,C 7/22	—	Sel	—	—	—	8-3-06	KS
7/24 A,B,C 7/22	✓	YC/Sel	✓	—	20.9°C	8-4-06	JG
↓	—	Sel	—	—	—	8-6-06	KS
7/24 A,B,C 7/22	✓	YC/Sel	✓ 11:10	✓	20.7	8-7-06	KS
↓	✓	Sel	✓ 10:30	—	20.5	8-8-06	KS

/22 → lture ded. 1-06 JG

Selenastrum Lot#: 71106Sel / 72506Sel
YC or YCT Lot#: 713064C

Alkalinity and Hardness Worksheet

				Alkalinity						Hardness					
Sample Identifier	LIMS Identifier	Sub ID Code	Sampling Date	Sample Volume	Initial Titrant (ml)	Final Titrant (ml)	Analyst	Analysis Date	Alkalinity	Sample Volume	Initial Titrant (ml)	Final Titrant (ml)	Analyst	Analysis Date	Hardness
32565	Outfall Composite		8/8/06	25	4.1	10.8	KK	8/9/06	268.0	50	22.1	37.5	KS	8/8/06	308.0
32566	Housatonic River A		8/8/06	25	10.8	13.1	KK	8/9/06	92.0	50	37.7	43	KS	8/8/06	106.0

9/22/06

Sample Preparation

Client: GENERAL ELECTRIC, PITTSFIELD, MA MA0003891	**SDG: 9752**
Test Description: *Daphnia pulex* acute toxicity test.	**Test #: 48817**

Sample Identification:

Sample Description	Rec. Water (Housatonic River)	Effluent		
Sample #	32566	32565		

Sample Preparation:

Filtration	60 micr on ✓	60 micron ✓	60 micron	60 micron
Chlorine [1]	ND	ND		
Dechlorine [2]	—	—		
Salinity (o/oo)	0 o/oo	0 o/oo		
Prepared by (Init./date)	KK 8-8-06	—		

[1] Record vol. 0.025 N sodium thiosulfate to dechorinate 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 / Lamoille River 1:1 mix
Dechlorination Control = moderately hard water / Lamoille 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	

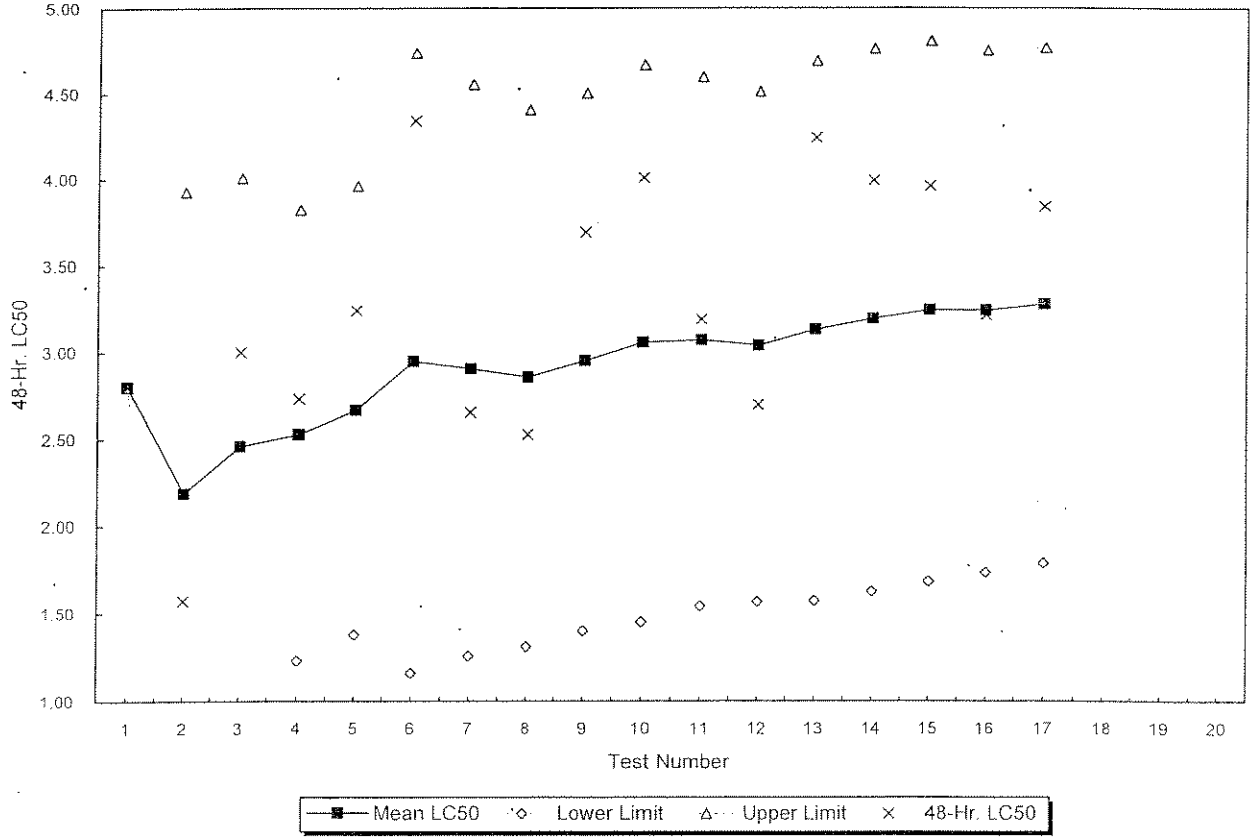
Comments:

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 Age (Days)	48-Hr. LC50	Mean LC50	Lower Limit	Upper Limit	Organism Source
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	08/08/06	1	3.839	3.28	1.79	4.77	Aquatec Biological Sciences
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 dapnids. 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^{o}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 quidelines.

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 ± 1°C or 20 ± 1°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 Lamoille 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 ± 1°C or (20 ± 1°C). Return parent stock females

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 dapnids. 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^{o}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.

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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 quidelines.

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 ± 1°C or 20 ± 1°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 Lamoille 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 ± 1°C or (20 ± 1°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 ± 1°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 ± 1°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°C or 24-26°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

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 benchsheets, 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 and 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 and "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

DOCUMENT SIGNATURE PAGE

DOCUMENT NAME: SOP TOX2-001 Daphnid Acute Revision 5

Printed Name	I have read and I understand and I agree, to the best of my ability, to follow the procedures outlined in this SOP Signature	Initials	Date

APPENDIX 2

Laboratory Reports

Columbia Analytical Services, Inc.
O'Brien & Gere, Inc.

NPDES Sampling
GE Pittsfield
Toxicity pH

Split Sample
A.TOX / C.TOX # 1
AUG. 2006

Date: 8/7/06

Acute Dry ___
Acute Wet ✓
Chronic 1 (Day 1,2 or 3)

Effluent Composite
Sample # A7483C
Date 8-7-06
Time 1100 AM
pH 7.77 su

River/Dilution Water
Sample # A7482R
Date 8-7-06
Time 815 AM
pH 7.92 su

Mark Wasowsky 8-7-06
Signed & Dated

COLUMBIA ANALYTICAL SERVICES

Reported: 08/18/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7483C

Date Sampled : 08/07/06 11:00 **Order #:** 923277 **Sample Matrix:** WATER
Date Received: 08/08/06 **Submission #:** R2632759

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.567	MG/L	08/15/06	10:25	1.0
CHLORIDE	300.0	0.200	152	MG/L	08/10/06	21:43	40.0
TOTAL ALKALINITY	310.1	2.00	277	MG/L	08/15/06	09:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	6.99	MG/L	08/12/06	00:56	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0796	MG/L	08/14/06	14:56	1.0
TOTAL SOLIDS	160.3	10.0	554	MG/L	08/11/06	14:15	1.0
TOTAL SUSPENDED SOLIDS	160.2	1.00	2.60	MG/L	08/09/06	13:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/18/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7482R

Date Sampled : 08/07/06 08:15 **Order #:** 923275 **Sample Matrix:** WATER
Date Received: 08/08/06 **Submission #:** R2632759

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.0500 U	MG/L	08/15/06	10:25	1.0
CHLORIDE	300.0	0.200	18.2	MG/L	08/10/06	21:26	10.0
TOTAL ALKALINITY	310.1	2.00	105	MG/L	08/15/06	09:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	6.66	MG/L	08/12/06	00:18	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	08/14/06	14:56	1.0
TOTAL SOLIDS	160.3	10.0	159	MG/L	08/11/06	14:15	1.0
TOTAL SUSPENDED SOLIDS	160.2	1.00	2.70	MG/L	08/09/06	13:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/18/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7483CCN

Date Sampled : 08/07/06 11:00 **Order #:** 923289 **Sample Matrix:** WATER
Date Received: 08/08/06 **Submission #:** R2632759

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL CYANIDE	335.4	0.0100	0.0279	MG/L	08/17/06	14:35	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/18/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7482RCN

Date Sampled : 08/07/06 08:15 **Order #:** 923288 **Sample Matrix:** WATER
Date Received: 08/08/06 **Submission #:** R2632759

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL CYANIDE	335.4	0.0100	0.0100 U	MG/L	08/15/06	14:57	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/18/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7483CTM

Date Sampled : 08/07/06 11:00 **Order #:** 923286 **Sample Matrix:** WATER
Date Received: 08/08/06 **Submission #:** R2632759

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	08/14/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	08/14/06	1.0
CALCIUM	200.7	1.00	68.6	MG/L	08/14/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	08/14/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	08/14/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	08/14/06	1.0
MAGNESIUM	200.7	1.00	28.5	MG/L	08/14/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	08/14/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	08/14/06	1.0
ZINC	200.7	0.0200	0.0200 U	MG/L	08/14/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/18/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7483CDM

Date Sampled : 08/07/06 11:00 **Order #:** 923282 **Sample Matrix:** WATER
Date Received: 08/08/06 **Submission #:** R2632759

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	08/14/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	08/14/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	08/14/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	08/14/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	08/14/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	08/14/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	08/14/06	1.0
ZINC	200.7	0.0200	0.0252	MG/L	08/14/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/18/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7482RTM

Date Sampled : 08/07/06 08:15 **Order #:** 923287 **Sample Matrix:** WATER
Date Received: 08/08/06 **Submission #:** R2632759

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	08/14/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	08/14/06	1.0
CALCIUM	200.7	1.00	27.4	MG/L	08/14/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	08/14/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	08/14/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	08/14/06	1.0
MAGNESIUM	200.7	1.00	9.59	MG/L	08/14/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	08/14/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	08/14/06	1.0
ZINC	200.7	0.0200	0.0200 U	MG/L	08/14/06	1.0

APPENDIX 3

Chain of Custody Forms

Columbia Analytical Services INC.
An Employee - Owned Company
www.caslab.com

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 ______ OF ______

SR #
CAS Contact

Project Name: NPDES PERMIT
Project Number:
Project Manager: J. NICHOLSON
Report CC:
Company/Address: GE CEP
159 PLASTICS AVE, BLDG 59
PITTSFIELD, MA 01201
Phone #: (413) 448-5915
FAX#: (413) 448-5935
Sampler's Signature: C. C…
Sampler's Printed Name: SEAN C COLLE

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

				PRESERVATIVE								3	0	0	4		
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	O&G EPA 1664	TSS EPA 160.2	BOD EPA 405.1	CYANIDE EPA 335.4	REMARKS/ ALTERNATE DESCRIPTION
09C-A7470		8.3.06	11 15 AM	H2O	1								X				
64T-A7492		8-7-06	7 00 AM	↓	↓								X				
64G-A7495		↓	7 00 AM	↓	↓								X				
09C-A7497		↓	8 00 AM	↓	↓								X				
09B-A7499		↓	10 45 AM	↓	↓									X			
09B-A7499		↓	10 45 AM	↓	↓										X		
005-~~A7501~~ A7501/A7502		↓	11 00 AM	↓	↓									X			
005-A7501/A7502		↓	11 00 AM	↓	↓										X		
A7482RCN	923288	↓	8 15 AM	↓	↓											X	
A7483CCN	923289	↓	11 05 AM	↓	↓											X	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other ______

SPECIAL INSTRUCTIONS/COMMENTS
Metals

- SAMPLES PACKED IN ICE

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr X 5 day
____ STANDARD
REQUESTED FAX DATE ______
REQUESTED REPORT DATE ______

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
X IV. Data Validation Report with Raw Data
____ V. Specialized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:

SUBMISSION #: R2632759

SAMPLE RECEIPT: CONDITION/COOLER TEMP: ______ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Mark Wasnewsky	Signature: …Oleary	Signature	Signature	Signature	Signature
Printed Name: MARK WASNEWSKY	Printed Name: Heather Oleary	Printed Name	Printed Name	Printed Name	Printed Name
Firm: OBG	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 8-7-06 2 00 PM	Date/Time: 8/8/06 915	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-1102-08

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SR #

CAS Contact

Project Name: NPDES Permit	Project Number:
Project Manager: J Nicholson	Report CC:
Company/Address: GE CEP 159 Plastics Ave Bldg 59 Pittsfield MA 01201	
Phone #: 413 448 5915	FAX#: 413 448 5935
Sampler's Signature: Mark Wasnewsky	Sampler's Printed Name: MARK WASNEWSKY

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1 1 0 0 0

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (10) EPA 200.7 (List in comments below)	METALS, DISSOLVED (8) EPA 200.7 (List in comments below)	TSS EPA 160.2	CHLORIDE EPA 325.2	TOTAL SOLIDS	Alkalinity	REMARKS/ ALTERNATE DESCRIPTION
A7482RTM	923287	8-7-06	815 AM	H2O	1					X							
A7483CTM	923286		1100 AM		1					X							
A7483CDM	923282		1100 AM		1						X						Filtered + Preserved
A7482R	923275		815 AM		1							X					
A7483R	923277		1100 AM		1							X					
A7482R	923275		815 AM		1								X				
A7483C	923277		1100 AM		1								X				
A7482R	923275		815 AM		1										X		No Headspace
A7483C	923277		1100 AM		1										X		No Headspace

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS:
(1) Metals - Listed on sample bottle labels
(2) Samples Packed in Ice

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY) ✓
____ 24 hr ____ 48 hr ____ 5 day
____ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

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. Specialized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #: A2632759

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Mark Wasnewsky	Signature: Heather Lukezyn	Signature	Signature	Signature	Signature
Printed Name: MARK WASNEWSKY	Printed Name: Heather Lukezyn	Printed Name	Printed Name	Printed Name	Printed Name
Firm: GE	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 8-7-06 2:00 PM	Date/Time: 8/8/06 915	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-1102-08

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR #

CAS Contact

Project Name: NPDES Permit	Project Number:
Project Manager: J Nicholson	Report CC:
Company/Address: GE Corp Environmental 159 Plastics Ave Bldg 59 Pittsfield MA 01201	
Phone #: 413 448 5913	FAX#: 413 448 5935
Sampler's Signature: Mark Wasnewsky	Sampler's Printed Name: MARK WASNEWSKY

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 3 3

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's 8260 624 CLP	GC/MS SVOA's 8270 625 CLP	GC VOA's 8021 601/602	PESTICIDES 8081 608 CLP	PCB's 8082 608 CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	TOTAL PHOSPHORUS	TOC	REMARKS/ ALTERNATE DESCRIPTION
A7482R	923275	8-7-06	8 AM	H2O	1							X			
A7483C	923277	↓	1100 AM	↓	1							X			
A7482R	923275		815 AM		3								X		
A7483C	923277		1100 AM		3								X		

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals
Sampler Packed in Ice

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 24 hr _____ 48 hr ✓ 5 day
_____ STANDARD
REQUESTED FAX DATE
_____
REQUESTED REPORT DATE
_____

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. Specialized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
PO#
BILL TO:

SUBMISSION #: R2632759

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Mark Wasnewsky	Signature: Heather Lavigne	Signature	Signature	Signature	Signature
Printed Name: MARK WASNEWSKY	Printed Name: Heather Lavigne	Printed Name	Printed Name	Printed Name	Printed Name
Firm: OBG	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 8-7-06 2:00PM	Date/Time: 8/8/06 915	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-1102-08

Cooler Receipt And Preservation Check Form

Project/Client GE Submission Number _____

Cooler received on 8/8/06 by: _____ 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/ROC)	CLIENT			
7.	Temperature of cooler(s) upon receipt:	3.1	3.8	____	____	____
	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: 8/8/06 950

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: [illegible] 8-8-06

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_2SO_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 H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments:

PC Secondary Review: _____

Aquatec Biological Sciences
Chain-of-Custody Record

273 Commerce Street
Williston, VT 05495
TEL (802) 860-1638
FAX (802) 658-3180

COMPANY INFORMATION	COMPANY'S PROJECT INFORMATION	SHIPPING INFORMATION
Name: General Electric Company	Project Name: GE PITTSFIELD	Carrier:
Address: O'Brien & Gere	**Outfall Composite**	
1000 East Street, Gate 64	Project Number: 06004	Airbill Number:
City/State/Zip: Pittsfield, MA 01201	Sampler Name(s): MARK WASNEWSKY	
Telephone: (413) 494-6709	NPDES Permit #: MA0003891	Date Shipped: 8-7-06
Facsimile:		
Contact Name: Mark Wasnewsky	Quote #: 10/05 Client Code: GEPITTS	Hand Delivered: ☑ Yes ☐ No

SAMPLE IDENTIFICATION	COLLECTION DATE	COLLECTION TIME	GRAB	COMPOSITE	MATRIX	ANALYSIS (detection limits, mg/L)	VOLUME/CONTAINER TYPE/ PRESERVATIVE: NUMBER OF CONTAINERS — 4°C Plastic 1 gal	4°C Plastic 1/2 gal	4°C H_2SO_4 Plastic 1 L	4°C H_2SO_4 Glass 40 ml	4°C Amber Glass 250 ml	4°C HNO_3 Plastic 0.5 L
Outfall Composite A7483C	8-7-06	11⁰⁰ AM		✓	Effluent	*Daphnia pulex* 48-h Static Acute Toxicity (EPA Method 2021.0). Log In for A48DPS	1					
Outfall Composite A7483C	↓	11⁰⁰ AM		✓	Effluent	Total Residual Chlorine					1	
Housatonic River A7482R		8¹⁵ AM	✓		Receiving	Dilution Water	1					
Housatonic River A7482R	↓	8¹⁵ AM	✓		Receiving	Total Residual Chlorine					1	

Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*
Mark Wasnewsky	8-7-06	1312	
Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*
Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*

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.

1.9 °C

Notes to Lab: Ambient cooler temperature: 2.6°C. Dechlorinate the effluent sample if chlorine is detected.

8/7/2006

CHRONIC AQUATIC TOXICITY COMPOSITE 8C1

Split Sample
C. TOX 1 &
AW TOX Aug. 2006

Month: AUG
Week: 2
Fiscal Wk: 32
Weather: Chronic Composite Sample #1

	Gallons/Day	Ml in Composite	Percent of Composite
001	84,010	4,508.41	30.06%
004	0	-	0.00%
007	0	-	0.00%
64T	31,530	1,692.06	11.28%
64G	151,180	8,113.10	54.09%
09A	0	-	0.00%
09B	12,791	686.43	4.58%
	279,511	15000	100.00%

The Chronic Toxicity Composite was made today by Mark Wosnewsky @ 1100 AM according to the table above, and given the sample ID# A7483C

Chain-of-Custody Form Number: OBG080706
Analysis: Split Sample AUG A. TOX / C. TOX 2006
~~Location:~~ Time 1100 AM Date: 8-7-06
Sample Label Serial Number A 7483C

Mark Wosnewsky
Signed

8-7-06
Date

Attachment D

NPDES Chronic Biomonitoring Report
August 2006

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an ARCADIS company

1 Mustard Street, Suite 250 Rochester, NY 14609-6925 (585) 288-5380 (585) 288-8475 fax

Columbia Analytical Services INC.
An Employee - Owned Company

August 23, 2006

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

Re: NPDES Chronic Biomonitoring Report for August 2006
Submission #s: R2632759, R2632760 and R2632752

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 8/7/06 at 11:00 am, 8/9/06 at 11:00 am and 8/11/06 at 11:00 am. The Housatonic River samples were collected on 8/7/06 at 8:15 am, 8/9/06 at 8:15 am and 8/11/06 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
August 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
August 23, 2006

TABLE OF CONTENTS

I. Summary

On August 6-11, 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 August 6-7, August 8-9 and August 10-11. 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 August 7 – 9 – 11, 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 August 6-7, August 8-9 and August 10-11, 2006 were tested for 7 day chronic toxicity using *Ceriodaphnia dubia* organisms. The sample did not require dechlorination with sodium thiosulfate ($Na_2S_2O_3$) 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:

Control Analysis	Result	Acceptable Limit
Survival in 100% dilution water	100%	≥80%
Reproduction in 100% dilution water (average# of offspring/female/day)	32.8	≥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 August 6-11, 2006

Aquatic Toxicity Results:			No Observed Effect Level (NOCEL) =				100%
						LC50 =	>100%
	Chemical Analyses: (all results are mg/L unless otherwise indicated)						
		Aug 6-7	Aug 7	Aug 8-9	Aug 9	Aug 10-11	Aug 11
		Effluent	Housatonic	Effluent	Housatonic	Effluent	Housatonic
Parameter Tested	Laboratory	Composite	River	Composite	River	Composite	River
Ammonia	CAS	0.567	ND (0.0500)	0.531	0.179	0.523	ND (0.0500)
Chloride	CAS	152	18.2	191	13.2	196	18.5
Total Alkalinity	CAS	277	105	357	73.3	366	103
Total Organic Carbon	CAS	6.99	6.66	6.57	6.03	6.40	5.01
Total Phosphorus	CAS	0.0796	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)
Total Solids	CAS	554	159	683	122	694	147
Total Suspended Solids	CAS	2.60	2.70	ND (1.00)	2.20	ND (1.00)	1.00
Hardness	Aquatec	308	106	172	84	356	110
Spec. Conductance (umhos)	Aquatec	1027	276	1268	201	1303	274
pH (SU)	Aquatec	7.7	7.6	7.7	7.4	8.1	7.8
TRC (start of toxicity test)	Aquatec	ND	ND	ND	ND	ND	ND
Cyanide	CAS	0.0279	ND (0.0100)	0.0444	ND (0.0100)	0.0197	ND (0.0100)
Aluminum, total	CAS	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)
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)	ND (0.00500)	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)	ND (0.0200)	ND (0.0200)	ND (0.0200)	ND (0.0200)
Zinc, dissolved	CAS	0.0252	NA	0.0499	NA	ND (0.0200)	NA
pH (SU)	OB&G	7.77	7.92	7.82	7.17	7.85	7.79
Hardness	Aquatec	308	106	172	84	356	110

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

August 22, 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 August 8 - 14, 2006.

According to the Chain-of-Custody documentation , samples for Whole Effluent Toxicity (WET) Testing were collected on August 7, 9, and 11, 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 August 8, 2006, within the specified holding time.

At the conclusion of the toxicity test on August 14, 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 - 61

273 Commerce Street, Williston, VT 05495 Tel: 802.860.1638 Fax: 802.658.3189

Chonic Whole Effluent Toxicity Testing Of Wastewaters Discharged from The General Electric Plant Pittsfield, Massachusetts

Samples Collected in August 2006

Submitted to:
General Electric
Area Environmental & Facility Programs
100 Woodlawn Avenue
Pittsfield, Massachusetts 01201

SDG number: 9753

Effluent ID: Outfall Composite A7483C Aquatec sample number: 32567
Effluent ID: Outfall Composite A7485C Aquatec sample number: 32613
Effluent ID: Outfall Composite A7487C Aquatec sample number: 32771

Receiving water ID: Housatonic River A7482R Aquatec sample number: 32568
Receiving water ID: Housatonic River A7484R Aquatec sample number: 32614
Receiving water ID: Housatonic River A7486R Aquatec sample number: 32772
Study Director: John Williams

August 22, 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

8/22/06
Date

Quality Assurance Officer
Philip C. Downey, Ph. D.

8/22/06
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: 8/22/06

Authorized signature

John Williams
Name

Manager, Environmental Toxicology
Title

Aquatec Biological Sciences, Inc.
Laboratory

Table of Contents

List of Tables

Summary
of
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:	9753
Test material:	Composite effluent from the General Electric Company located in Pittsfield, Massachusetts
GE sample ID:	Outfall Composite A7483C Outfall Composite A7485C Outfall Composite A7487C
Dilution water:	Water from the Housatonic River (grab sample)
GE sample ID:	Housatonic River A7482R Housatonic River A7484R Housatonic River A7486R
Dates collected:	August 7, 9, and 11, 2006
Date received:	August 7, 9, and 11, 2006
Test dates:	August 8-14, 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)
Ceriodaphnia dubia	48 hours	>100%	>100%

Chronic Toxicity Values

Species	Endpoint	Exposure Period	C-NOEC (% effluent)	C-LOEC (% effluent)
Ceriodaphnia dubia	Survival	6 – 7 days	>100%	>100%
Ceriodaphnia dubia	Reproduction	6 – 7 days	>100%	>100%

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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 August 8-14, 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 August 6-7, 2006 (initial sample); August 8-9, 2006 (first renewal sample), and August 10-11, 2006 (second renewal sample). Receiving water samples were grab samples collected from the Housatonic River on August 7, 9, and 11, 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 (240 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:

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Parameter	Result
Total hardness (mg/L)	Within range of 50-110 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 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 check 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).

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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 23.9°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 August 2006, had a resulting 48-hour LC50 2.395 g NaCl/L and a chronic IC25 of 0.529 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 A7483C	OUTFALL COMPOSITE A7485C	OUTFALL COMPOSITE A7487C
Temperature	24.0	25.3	25.1
pH	7.7	7.7	8.1
Alkalinity (as $CaCO_3$), mg/L	268	340	360
Hardness (as $CaCO_3$), mg/L	308	172	356
Dissolved oxygen, mg/L	8.5	8.9	8.4
Specific conductivity, uS/cm	1027	1268	1303
Total residual chlorine (mg/L)	ND	ND	ND
Parameter	**Housatonic River A7482R**	**Housatonic River A7484R**	**Housatonic River A7486R**
Temperature	24.2	26.0	25.1
pH	7.6	7.4	7.8
Alkalinity (as $CaCO_3$), mg/L	92	68	100
Hardness (as $CaCO_3$), mg/L	106	84	110
Dissolved oxygen, mg/L	8.7	8.9	8.5
Specific conductivity, uS/cm	276	201	274
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, August 8 - 14, 2006.

Test Concentration (% effluent)	pH	Dissolved Oxygen (mg/L)	Temperature (°C)	Conductivity (umhos/cm)
Dechl. Control	7.1 - 7.8	7.8 - 8.5	24.4 – 25.5	217-324
Lab Control	7.2 – 7.6	7.6 – 8.5	24.2 – 25.1	197 - 251
Reference Control	7.4– 7.8	7.5 – 9.1	24.2 – 26.0	200 - 282
6.25%	7.5 – 8.0	7.5 – 9.2	24.2 – 26.0	276 - 349
12.5%	7.5 – 8.0	7.2 – 9.2	24.1 – 26.0	346 - 419
25%	7.6 – 8.1	7.4 – 9.2	24.1 – 26.0	466 - 550
50%	7.6 – 8.3	7.4 – 9.1	24.0 – 26.0	645 - 807
75%	7.7 – 8.3	7.4 – 8.9	23.9 – 25.7	821 - 1057
100%	7.7 – 8.2	7.5 – 8.9	24.0 – 25.9	984 - 1306

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 and reproduction data recorded during the chronic toxicity test with *Ceriodaphnia dubia* exposed to General Electric Pittsfield Plant effluent, August 8 - 14, 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	90	-
Lab Control	100	100	100	100	100	100	-
Reference Control	100	100	100	100	90	90	-
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	90	-
75%	100	100	100	100	100	100	-
100%	100	100	100	100	100	100	-

Table 3 b. Summary of reproduction data (number of offspring produced) recorded during the chronic toxicity test with *Ceriodaphnia dubia* exposed to General Electric Pittsfield Plant effluent, August 8 - 14, 2006.

Test Concentration (% effluent)	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Mean
Dechl. Control	0	0	50	89	0	144	-	**28.3**
Lab Control	0	0	43	73	4	138	-	**25.8**
Reference Control	0	0	43	84	0	151	-	**27.8**
6.25%	0	0	47	81	0	173	-	**30.1**
12.5%	0	0	46	86	0	168	-	**30.0**
25%	0	0	47	88	0	183	-	**31.8**
50%	0	0	42	82	17	142	-	**28.3**
75%	0	0	51	100	19	155	-	**32.5**
100%	0	0	54	109	0	165	-	**32.8**

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).

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
Name: General Electric Company	Project Name: GE PITTSFIELD	Carrier:
Address: O'Brien & Gere	**Outfall Composite – INITIAL SAMPLE**	
1000 East Street, Gate 64	Project Number: 06004	Airbill Number:
City/State/Zip: Pittsfield, MA 01201	Sampler Name(s): MARK WASNEWSKY	
Telephone: (413) 494-6709	NPDES Permit #: MA0003891	Date Shipped: 8-7-06
Facsimile:	**Ship these samples on Monday.**	
Contact Name: Mark Wasnewsky	Quote #: 10/05 Client Code: GEPITTS	Hand Delivered: ☑ Yes ☐ No

SAMPLE IDENTIFICATION	COLLECTION DATE	COLLECTION TIME	GRAB	COMPOSITE	MATRIX	ANALYSIS	VOLUME/CONTAINER TYPE/ PRESERVATIVE — NUMBER OF CONTAINERS: 4°C / Plastic / 1 gal	4°C / Plastic / 1/2 gal	4°C H_2SO_4 / Plastic / 1 L	4°C H_2SO_4 / Glass / 40 ml	4°C / Amber Glass / 250 ml	4°C HNO_3 / Plastic / 0.5 L
Outfall Composite A7483C	8-7-06	11:00 AM		✓	Effluent	*Ceriodaphnia dubia* chronic suvival and reproduction (EPA Method 1002.0) Initial sample	1					
Outfall Composite A7483C		11:00 AM		✓	Effluent	Total Residual Chlorine					1	
~~H~~ousatonic River A7482R		8:15 AM	✓		Receiving	Dilution Water	2					
Housatonic River A7482R	↓	8:15 AM	✓		Receiving	Total Residual Chlorine					1	

Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*
Mark Wasnewsky	8-7-06	1312	
Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*
Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*

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: 4.0 °C. Dechlorinate the effluent sample if chlorine is detected.

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
Name: General Electric Company	Project Name: GE PITTSFIELD	Carrier:
Address: O'Brien & Gere	**Outfall Composite – RENEWAL SAMPLE**	
1000 East Street, Gate 64	Project Number: 06004	Airbill Number:
City/State/Zip: Pittsfield, MA 01201	Sampler Name(s): MARK WASNEWSKY	
Telephone: (413) 494-6709	NPDES Permit #: MA0003891	Date Shipped: 8-9-06
Facsimile:	**Ship these samples on Wednesday.**	
Contact Name: Mark Wasnewsky	Quote #: 10/05 Client Code: GEPITTS	Hand Delivered: ☑ Yes ☐ No

VOLUME/CONTAINER TYPE/ PRESERVATIVE					
4^0C	4^0C	4^0C H_2SO_4	4^0C H_2SO_4	4^0C	4^0C HNO_3
Plastic	Plastic	Plastic	Glass	Amber Glass	Plastic
1 gal	1/2 gal	1 L	40 ml	250 ml	0.5 L

SAMPLE IDENTIFICATION	COLLECTION DATE	COLLECTION TIME	GRAB	COMPOSITE	MATRIX	ANALYSIS	NUMBER OF CONTAINERS					
Outfall Composite A7485C	8-9-06	11:00 AM		✓	Effluent	Ceriodaphnia dubia chronic suvival and reproduction (EPA Method 1002.0) – Renewal 1	1					
Outfall Composite A7485C		11:00 AM		✓	Effluent	Total Residual Chlorine					1	
Housatonic River A7484R		8:15 AM	✓		Receiving	Dilution Water	2					
Housatonic River A7484R		8:15 AM	✓		Receiving	Total Residual Chlorine					1	

Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*
Mark Wasnewsky	8-9-06	1330	
Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*
	8/9/06	1755	(Lab)
Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*

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: 1.4 °C. Dechlorinate the effluent sample if chlorine is detected.

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
Name: General Electric Company	Project Name: GE PITTSFIELD	Carrier:
Address: O'Brien & Gere	**Outfall Composite – RENEWAL SAMPLE**	
1000 East Street, Gate 64	Project Number: 06004	Airbill Number:
City/State/Zip: Pittsfield, MA 01201	Sampler Name(s): MARK WASNEWSKY	
Telephone: (413) 494-6709	NPDES Permit #: MA0003891	Date Shipped: 8-11-06
Facsimile:	**Ship these samples on Friday.**	
Contact Name: Mark Wasnewsky	Quote #: 10/05 Client Code: GEPITTS	Hand Delivered: ☒ Yes ☐ No

SAMPLE IDENTIFICATION	COLLECTION DATE	COLLECTION TIME	GRAB	COMPOSITE	MATRIX	ANALYSIS	VOLUME/CONTAINER TYPE/ PRESERVATIVE: NUMBER OF CONTAINERS					
							4°C / Plastic / 1 gal	4°C / Plastic / 1/2 gal	4°C H_2SO_4 / Plastic / 1 L	4°C H_2SO_4 / Glass / 40 ml	4°C / Amber Glass / 250 ml	4°C HNO_3 / Plastic / 0.5 L
Outfall Composite A74587C	8-11-06	11:00 AM		✓	Effluent	*Ceriodaphnia dubia* chronic suvival and reproduction (EPA Method 1002.0) – Renewal 2	2					
Outfall Composite A74587C		11:00 AM		✓	Effluent	Total Residual Chlorine					1	
Housatonic River A74586R		8:15 AM	✓		Receiving	Dilution Water	2					
Housatonic River A74586R		8:15 AM	✓		Receiving	Total Residual Chlorine					1	

Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*
Mark Wasnewsky	8-11-06	15:30	Philip Chaney
Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*
To Lab	8/11/06	01:10	Parsonage
Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*

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: 1.4 °C. Dechlorinate the effluent sample if chlorine is detected.

Appendix 2
Summary of Test Conditions

Client: CAS / GE PITTSFIELD	Test #: 48823	SDG: 9753

Test Description: Daphnid, *Ceriodaphnia dubia* acute / chronic survival and reproduction

ASSOCIATED PROTOCOL: EPA 1994. *Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms.* (EPA/600/4-91/002) 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:	15-20 ml / replicate
7. Renewal of test concentrations:	Daily
8. Age of test organisms:	Less than 24 h, released within an 8 hr. period
9. No. organisms / test chamber:	1
10. No. of replicate chambers / concentration:	10
11. No. of organisms / concentration:	10
12. Feeding regime:	0.1 ml each of YTC and algal suspension daily
13. Cleaning:	Transfer to new test solution and test chamber daily
14. Aeration:	None
15. Dilution water:	Receiving water
16. Test concentrations:	6.25, 12.5, 25, 50, 75, 100% effluent
17. Laboratory control:	1:1 Lamoille R. / MHW as additional control. Sodium thiosulfate in MHW as additional control
18. Test duration:	Until 60% of control females have three broods
19. Monitoring:	Daily temperature, dissolved oxygen, pH, and conductivity. Hardness, alkalinity on each new sample. Biological monitoring daily
19. End points:	Survival (Days 2 and end of test) and reproduction (end of test)
20. Reference toxicant test:	Sodium chloride LC50 / IC25
21. Test acceptability (control performance):	80% or greater survival and an average of 15 or more young/female. At least 60% of surviving females must have produced third brood
22. Data interpretation:	Acute: 48-h LC50 (point estimate); A-NOEC Chronic: C-NOEC by hypothesis test statistics compared to the Lab Control usiing TOXIS2

Appendix 3
U.S. EPA Region 1 Toxicity Test Summary and Statistical Flow Chart

TOXICITY TEST SUMMARY SHEET

Facility Name: Outfall Composite A7483C Test Start Date 8/8/2006

NPDES Permit Number: MA0003891 Pipe Number: 001

Test Type	Test Species	Sample Type	Sampling Method
Chronic	Ceriodaphnia	EFFLUENT	Composite

Dilution Water: Housatonic River

Receiving Water: Housatonic River

Effluent Sampling Dates: 8/7/06 8/9/06 8/11/06

Concentrations Tested: 0 6.25 12.5 25 50 75 100 Control Permit Limit: NA

Was Effluent Salinity Adjusted? NA If yes, to what value?

With Sea Salts? Hypersaline Brine Solution?

Actual effluent concentrations tested after salinity adjustment in percent: Same as above

Reference Toxicant Date: 8/14/06

PERMIT LIMITS and TEST RESULTS

Test Acceptability Criteria

Mean Control Survival: 90 (%) Mean Control Reproduction: 27.8 (neonates)

	Limits (%)		Results (%)
LC50	NA	48-Hour LC50	>100
		Upper Value	
		Lower Value	
		Data Analysis Method	Steel
A-NOEC		48-Hour A-NOEC	100
C-NOEC		C-NOEC	>100
		LOEC	>100
IC25		IC25	
IC50		IC50	

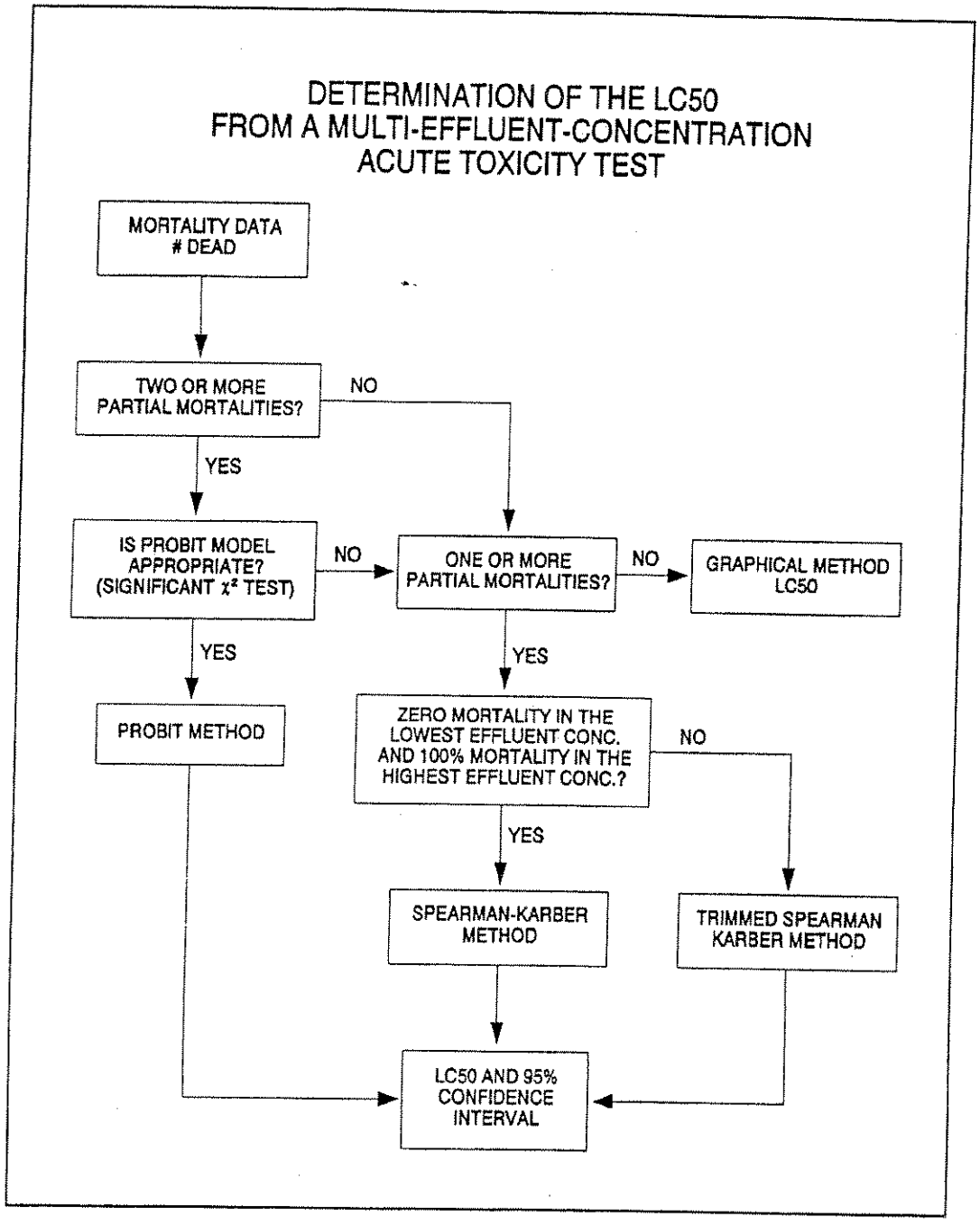

Figure 6. Flowchart for determination of the LC50 for multi-effluent-concentration acute toxicity tests.

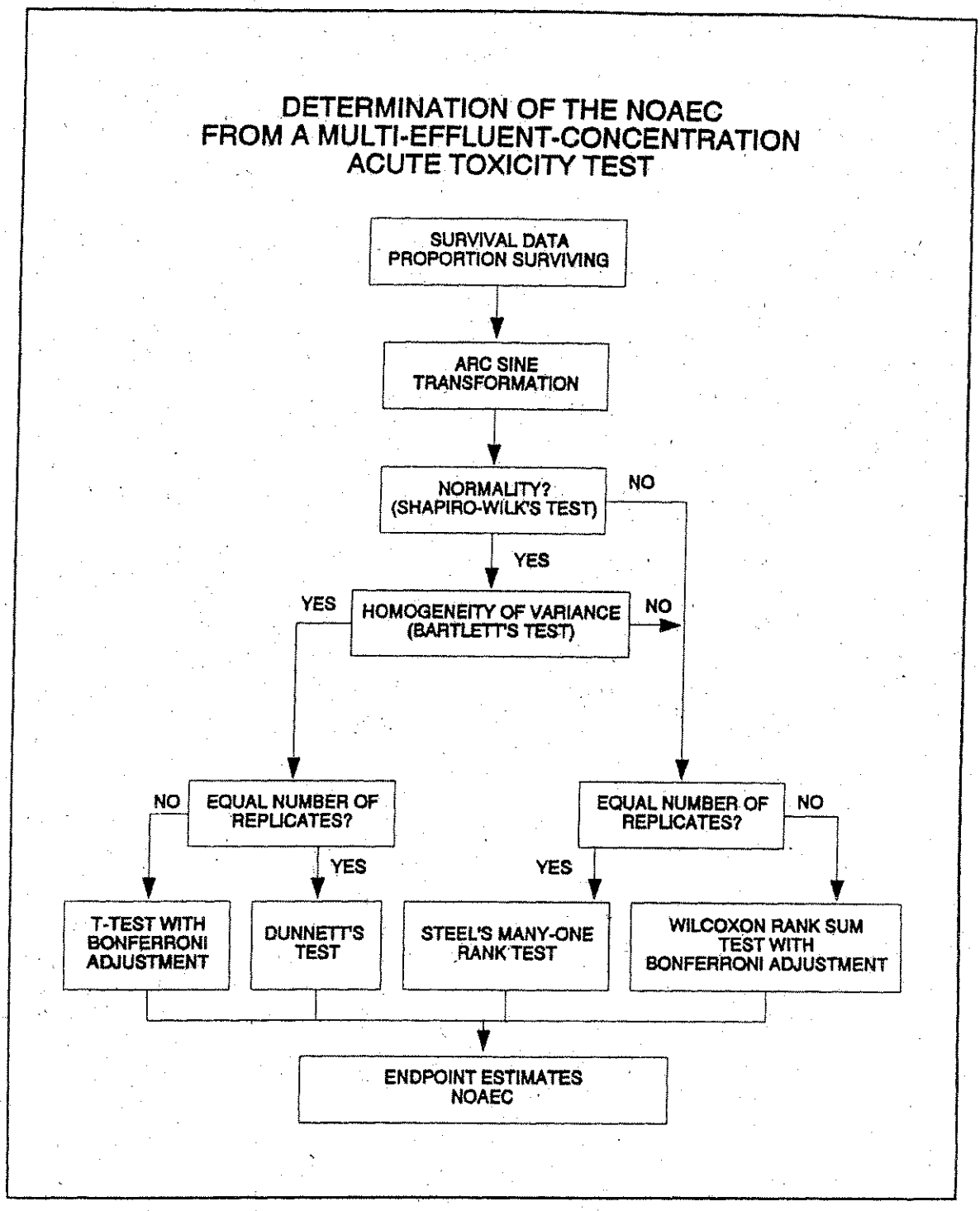

Figure 13. Flowchart for analysis of multi-effluent-concentration test data.

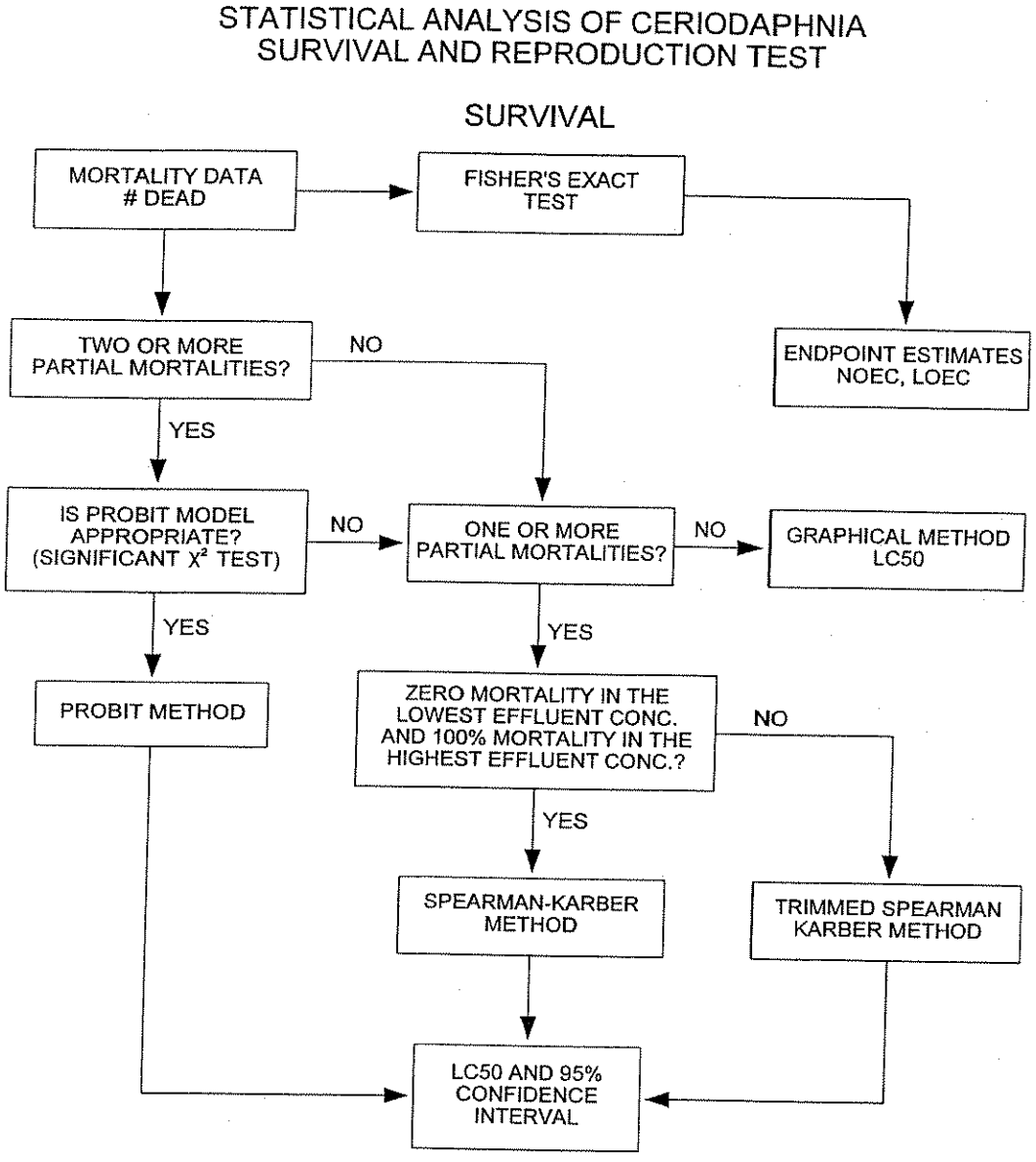

Figure 4. Flowchart for statistical analysis of the daphnid, *Ceriodaphnia dubia*, survival data.

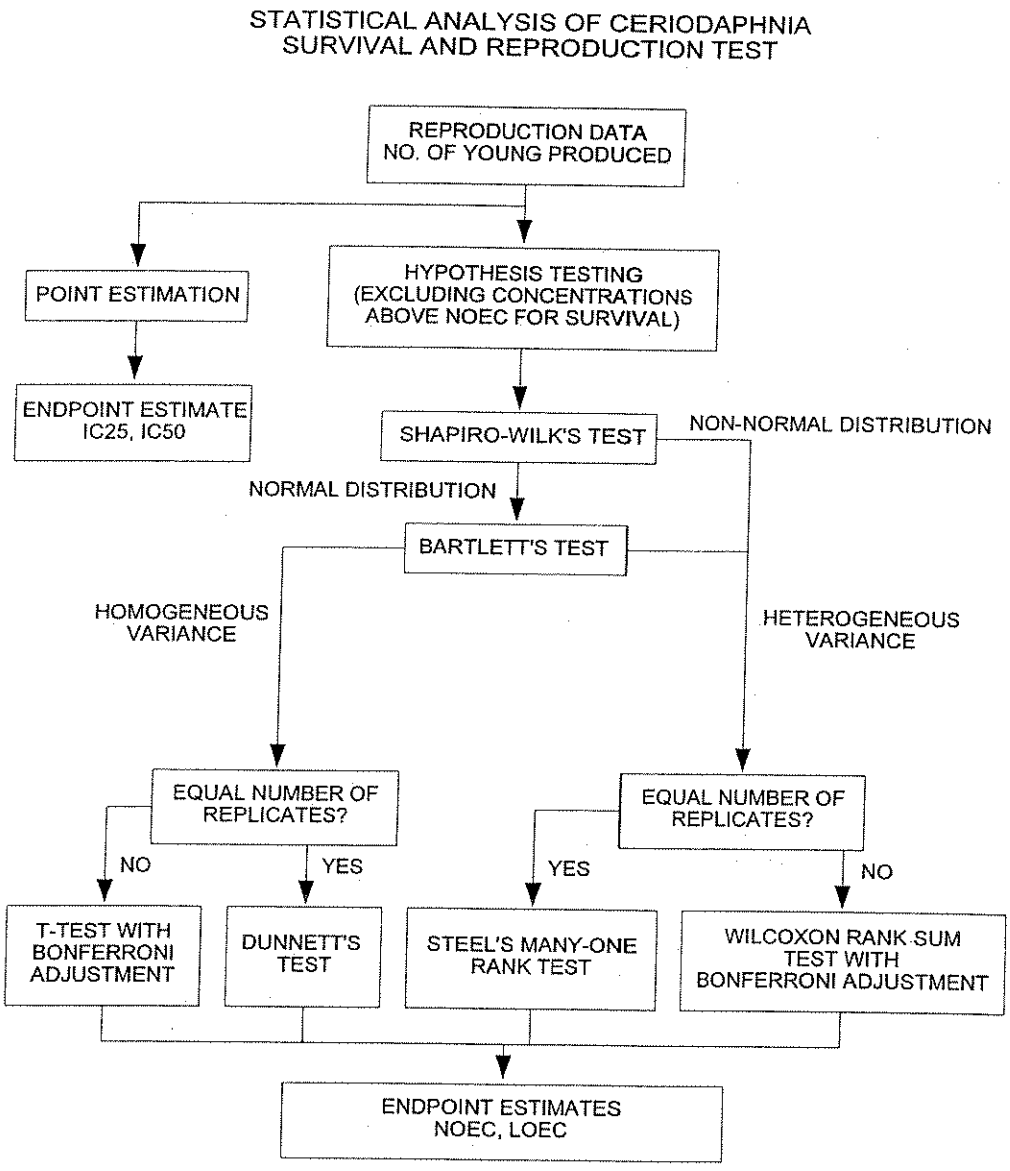

Figure 6. Flowchart for the statistical analysis of the daphnid, *Ceriodaphnia dubia*, reproduction data.

Appendix 4
Bench Data, *Ceriodaphnia dubia* Chronic Toxicity Test

Aquatec Biological Sciences, Inc.

Test Date: 8/08/06
Sample Date: 8/07/06
Species: Ceriodaphnia dubia
Test Type: Chronic

Test Number: 48823
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	.90	.316	
			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	.90	.316	
			X	75.000	D	10	1.00	0.000	
			X	100.000	D	10	1.00	0.000	
Reproduction		No transformation							
				0.000	B	10	25.80	7.465	
			X	0.000	D	10	27.80	7.345	
			X	6.250	D	10	30.10	1.729	
			X	12.500	D	10	30.00	4.082	
			X	25.000	D	10	31.80	2.936	
			X	50.000	D	10	28.30	10.199	
			X	75.000	D	10	32.50	2.550	
			X	100.000	D	10	32.80	3.293	

X = indicates concentrations used in calculations

- 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	29.084	5.664

Water Flea

Lab	Species	Test Date	Test Material	Permit	Protocol	Test Number
ABS	CD	8/08/2006	EFF1 (%)	MA0003891	EPAF 94	48823

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

Ceriodaphnia	Proportion Alive				Day 7
Lab	Species	Date	Test Material	Permit	Protocol	Test Number
ABS	CD	8/08/200	EFF1 (%)	MA0003891	EPAF 94	48823

Fisher Exact	Auto growth select	1 control		
Transformation		Prop. Conc	Alive	P
No transformation				
		0.00B	1.00	
	X	0.00D	.90	
	X	6.25D	1.00	1.000
	X	12.50D	1.00	1.000
	X	25.00D	1.00	1.000
	X	50.00D	.90	1.000
	X	75.00D	1.00	1.000
	X	100.00D	1.00	1.000

NOEC	LOEC	TU	Alpha	Tail	Based on
>100	>100	<1	.05	One-sided	Fisher Exact

TOXIS ANALYSIS SUMMARY

Ceriodaphnia Reproduction

Lab	Species	Date	Test Material	Permit	Protocol	Test Number
ABS	CD	8/08/200	EFF1 (%)	MA0003891	EPAF 94	48823

EPA Flowchart Auto growth select 1 control

	Conc	Mean	SD	N	T	Sum of Ranks
Data transformation: No transformation						
	0.00B	25.80	7.465	10		
X	0.00D	27.80	7.345	10		
X	6.25D	30.10	1.729	10	-.954	111.000
X	12.50D	30.00	4.082	10	-.912	113.000
X	25.00D	31.80	2.936	10	-1.659	124.500
X	50.00D	28.30	10.199	10	-.207	115.500
X	75.00D	32.50	2.550	10	-1.949	131.000
X	100.00D	32.80	3.293	10	-2.073	132.000

NOEC	LOEC	TU	Alpha	Tail	Based on	Critical Sum of Ran
>100	>100	<1	.05	One-sided	Steel	74

Dunnett Test:

MSE	MSD % Reduction from Control	Critical T
29.084	20.3745	2.3485

Kolmogorov Test for Normality:

Alpha	D	Cutoff D	Normal?
.01	.16842	.124	No

Bartlett Test for Equal Variance:

Alpha	B	P(B)	Equal Var?
.01	40.069	0	No

Aquatec Biological Sciences, Inc.

WATER FLEA TEST DATA

Test Number: 48823 (x) Chronic ( ) Acute hours
Test Date: 8-Aug-06
Source: MA0003891 Test Material: EFF1 (%)

Conc	Rep	Cont. No.	Sex	Start	Daily Survival 1	2	3	4	5	6	End	Prop Alive	Total Young	Max Young
0.00 B	1		F	1	1						1	1.00	30	17
0.00 B	2		F	1	1						1	1.00	35	20
0.00 B	3		F	1	1						1	1.00	25	15
0.00 B	4		F	1	1						1	1.00	12	7
0.00 B	5		F	1	1						1	1.00	13	6
0.00 B	6		F	1	1						1	1.00	29	16
0.00 B	7		F	1	1						1	1.00	30	16
0.00 B	8		F	1	1						1	1.00	29	17
0.00 B	9		F	1	1						1	1.00	28	17
0.00 B	10		F	1	1						1	1.00	27	14
0.00 D	1		F	1	1						1	1.00	35	21
0.00 D	2		F	1	1						1	1.00	32	20
0.00 D	3		F	1	1						1	1.00	29	17
0.00 D	4		F	1	1						1	1.00	28	16
0.00 D	5		F	1	1						1	1.00	29	16
0.00 D	6		F	1	1						1	1.00	21	9
0.00 D	7		F	1	1						0	0.00	10	7
0.00 D	8		F	1	1						1	1.00	29	16
0.00 D	9		F	1	1						1	1.00	34	20
0.00 D	10		F	1	1						1	1.00	31	17
6.25 D	1		F	1	1						1	1.00	32	17
6.25 D	2		F	1	1						1	1.00	31	19
6.25 D	3		F	1	1						1	1.00	30	16
6.25 D	4		F	1	1						1	1.00	27	16
6.25 D	5		F	1	1						1	1.00	32	19
6.25 D	6		F	1	1						1	1.00	30	18
6.25 D	7		F	1	1						1	1.00	30	15
6.25 D	8		F	1	1						1	1.00	29	18
6.25 D	9		F	1	1						1	1.00	32	19
6.25 D	10		F	1	1						1	1.00	28	16
12.50 D	1		F	1	1						1	1.00	32	19
12.50 D	2		F	1	1						1	1.00	33	19
12.50 D	3		F	1	1						1	1.00	32	20
12.50 D	4		F	1	1						1	1.00	21	9
12.50 D	5		F	1	1						1	1.00	33	19
12.50 D	6		F	1	1						1	1.00	27	14
12.50 D	7		F	1	1						1	1.00	31	17
12.50 D	8		F	1	1						1	1.00	34	19
12.50 D	9		F	1	1						1	1.00	31	18
12.50 D	10		F	1	1						1	1.00	26	15
25.00 D	1		F	1	1						1	1.00	33	20
25.00 D	2		F	1	1						1	1.00	36	22
25.00 D	3		F	1	1						1	1.00	31	19
25.00 D	4		F	1	1						1	1.00	30	19
25.00 D	5		F	1	1						1	1.00	35	20
25.00 D	6		F	1	1						1	1.00	29	16
25.00 D	7		F	1	1						1	1.00	32	18

Aquatec Biological Sciences, Inc.

WATER FLEA TEST DATA

Test Number: 48823 (x) Chronic ( ) Acute hours
Test Date: 8-Aug-06
Source: MA0003891 Test Material: EFF1 (%)

Conc	Rep	Cont. No.	Sex	Start	Daily Survival 1	2	3	4	5	6	End	Prop Alive	Total Young	Max Young
25.00 D	8		F	1	1						1	1.00	27	15
25.00 D	9		F	1	1						1	1.00	35	19
25.00 D	10		F	1	1						1	1.00	30	15
50.00 D	1		F	1	1						1	1.00	31	17
50.00 D	2		F	1	1						1	1.00	34	20
50.00 D	3		F	1	1						1	1.00	27	15
50.00 D	4		F	1	1						1	1.00	32	17
50.00 D	5		F	1	1						0	0.00	0	0
50.00 D	6		F	1	1						1	1.00	30	17
50.00 D	7		F	1	1						1	1.00	31	17
50.00 D	8		F	1	1						1	1.00	35	20
50.00 D	9		F	1	1						1	1.00	30	18
50.00 D	10		F	1	1						1	1.00	33	18
75.00 D	1		F	1	1						1	1.00	30	17
75.00 D	2		F	1	1						1	1.00	35	19
75.00 D	3		F	1	1						1	1.00	33	18
75.00 D	4		F	1	1						1	1.00	30	13
75.00 D	5		F	1	1						1	1.00	34	19
75.00 D	6		F	1	1						1	1.00	36	20
75.00 D	7		F	1	1						1	1.00	33	18
75.00 D	8		F	1	1						1	1.00	35	19
75.00 D	9		F	1	1						1	1.00	30	16
75.00 D	10		F	1	1						1	1.00	29	15
100.00 D	1		F	1	1						1	1.00	30	13
100.00 D	2		F	1	1						1	1.00	26	12
100.00 D	3		F	1	1						1	1.00	36	22
100.00 D	4		F	1	1						1	1.00	36	20
100.00 D	5		F	1	1						1	1.00	34	17
100.00 D	6		F	1	1						1	1.00	36	18
100.00 D	7		F	1	1						1	1.00	33	16
100.00 D	8		F	1	1						1	1.00	31	15
100.00 D	9		F	1	1						1	1.00	31	15
100.00 D	10		F	1	1						1	1.00	35	19

QC ✓
KS 8/22/06

Aquatec Biological Sciences, Inc.

WATER FLEA DAILY REPORT

TEST NUMBER: 48823
TEST DATE: 8-Aug-06
SOURCE: MA0003891

(x) Chronic ( ) Acute hours

TEST MATERIAL: EFF1 (%)

Conc	Ctrl	Rep	Cont. #	Daily Reproduction 1	2	3	4	5	6	7	8	9	10
0.00	B	1				5	8	0	17				
0.00	B	2				6	9	0	20				
0.00	B	3				4	6	0	15				
0.00	B	4				5	7	0	0				
0.00	B	5				3	0	4	6				
0.00	B	6				4	9	0	16				
0.00	B	7				5	9	0	16				
0.00	B	8				4	8	0	17				
0.00	B	9				3	8	0	17				
0.00	B	10				4	9	0	14				
0.00	D	1				5	9	0	21				
0.00	D	2				4	8	0	20				
0.00	D	3				5	7	0	17				
0.00	D	4				4	8	0	16				
0.00	D	5				3	10	0	16				
0.00	D	6				4	9	0	8				
0.00	D	7				3	7	0	0				
0.00	D	8				5	8	0	16				
0.00	D	9				5	9	0	20				
0.00	D	10				5	9	0	17				
6.25	D	1				5	10	0	17				
6.25	D	2				5	7	0	19				
6.25	D	3				6	8	0	16				
6.25	D	4				4	7	0	16				
6.25	D	5				5	8	0	19				
6.25	D	6				4	8	0	18				
6.25	D	7				5	10	0	15				
6.25	D	8				4	7	0	18				
6.25	D	9				5	8	0	19				
6.25	D	10				4	8	0	16				
12.50	D	1				5	8	0	19				
12.50	D	2				4	10	0	19				
12.50	D	3				5	7	0	20				
12.50	D	4				4	9	0	8				
12.50	D	5				6	8	0	19				
12.50	D	6				4	9	0	14				
12.50	D	7				6	8	0	17				
12.50	D	8				5	10	0	19				
12.50	D	9				4	9	0	18				
12.50	D	10				3	8	0	15				
25.00	D	1				6	7	0	20				
25.00	D	2				5	9	0	22				
25.00	D	3				4	8	0	19				
25.00	D	4				3	8	0	19				
25.00	D	5				5	10	0	20				
25.00	D	6				5	8	0	16				
25.00	D	7				5	9	0	18				

Aquatec Biological Sciences, Inc.

WATER FLEA DAILY REPORT

TEST NUMBER: 48823 (x) Chronic ( ) Acute hours
TEST DATE: 8-Aug-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				4	8	0	15				
25.00	D	9				5	11	0	19				
25.00	D	10				5	10	0	15				
50.00	D	1				5	9	17	0				
50.00	D	2				6	8	0	20				
50.00	D	3				2	10	0	15				
50.00	D	4				6	9	0	17				
50.00	D	5				0	0	0	0				
50.00	D	6				4	9	0	17				
50.00	D	7				4	10	0	17				
50.00	D	8				6	9	0	20				
50.00	D	9				4	8	0	18				
50.00	D	10				5	10	0	18				
75.00	D	1				5	8	0	17				
75.00	D	2				5	11	19	0				
75.00	D	3				6	9	0	18				
75.00	D	4				5	12	0	13				
75.00	D	5				5	10	0	19				
75.00	D	6				7	9	0	20				
75.00	D	7				5	10	0	18				
75.00	D	8				4	12	0	19				
75.00	D	9				4	10	0	16				
75.00	D	10				5	9	0	15				
100.00	D	1				6	13	0	11				
100.00	D	2				4	10	0	12				
100.00	D	3				5	9	0	22				
100.00	D	4				6	10	0	20				
100.00	D	5				6	11	0	17				
100.00	D	6				7	11	0	18				
100.00	D	7				5	12	0	16				
100.00	D	8				6	10	0	15				
100.00	D	9				5	11	0	15				
100.00	D	10				4	12	0	19				

QC ✓
KS 8/22/06

Effluent %	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10	Sum	End-of-Test Average Number of Neonates per Female
Na Thio	4	5	5	5	4	5	6	6	5	5	50	28.3
Lab Ctrl.	5	6	4	5	3	4	5	4	3	4	43	25.8
Rec. Ctrl.	5	4	5	4	3	4	3	5	5	5	43	27.8
6.25	5	5	6	4	5	4	5	4	5	4	47	30.1
12.5	5	4	5	4	6	4	6	5	4	3	46	30
25	6	5	4	3	5	5	5	4	5	5	47	31.8
50	5	6	2	6	0	4	4	6	4	5	42	28.3
75	5	5	6	5	5	7	5	4	4	5	51	32.5
100	6	4	5	6	6	7	5	6	5	4	54	32.8

Day 4

Effluent %	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10	Sum
Na Thio	10	9	8	8	8	9	10	8	9	10	89
Lab Ctrl.	8	9	6	7	0	9	9	8	8	9	73
Rec. Ctrl.	9	8	7	8	10	9	7	8	9	9	84
6.25	10	7	8	7	8	8	10	7	8	8	81
12.5	8	10	7	9	8	9	8	10	9	8	86
25	7	9	8	8	10	8	9	8	11	10	88
50	9	8	10	9	0	9	10	9	8	10	82
75	8	11	9	12	10	9	10	12	10	9	100
100	13	10	9	10	11	11	12	10	11	12	109

Day 5

Effluent %	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10	Sum
Na Thio	0	0	0	0	0	0	0	0	0	0	0
Lab Ctrl.	0	0	0	0	4	0	0	0	0	0	4
Rec. Ctrl.	0	0	0	0	0	0	0	0	0	0	0
6.25	0	0	0	0	0	0	0	0	0	0	0
12.5	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0
50	17	0	0	0	0	0	0	0	0	0	17
75	0	19	0	0	0	0	0	0	0	0	19
100	0	0	0	0	0	0	0	0	0	0	0

Day 6

Effluent %	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10	Sum
Na Thio	16	10	19	17	17	15	1	17	17	15	144
Lab Ctrl.	17	20	15	0	6	16	16	17	17	14	138
Rec. Ctrl.	21	20	17	16	16	8	0	16	20	17	151
6.25	17	19	16	16	19	18	15	18	19	16	173
12.5	19	19	20	8	19	14	17	19	18	15	168
25	20	22	19	19	20	16	18	15	19	15	183
50	0	20	15	17	0	17	17	20	18	18	142
75	17	0	18	13	19	20	18	19	16	15	155
100	11	12	22	20	17	18	16	15	15	19	165

Ceriodaphnia dubia Survival and Reproduction Data (Page 1 of 4)

Client: CAS / GE PITTSFIELD **Test #:** 48823 **SDG:** 9753

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: 32567
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 #: 8806Se ✓
25	0	0	0	0	0	0	0	0	0	0	YCT Lot #: 8306YC
50	0	0	0	0	0	0	0	0	0	0	Date/time/Init.
75	0	0	0	0	0	0	0	0	0	0	KS 8-8-06
100	0	0	0	0	0	0	0	0	0	0	11:45

Lab Ctrl	0	0	0	0	0	0	0	0	0	0	Day 1
Rec. Ctrl.	0	0	0	0	0	0	0	0	0	0	Sample: 32567
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 #: 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	0	0	0	0	0	0	0	0	KS 8-9-06
100	0	0	0	0	0	0	0	0	0	0	12:05

Lab Ctrl	0	0	0	0	0	0	0	0	0	0	Day 2
Rec. Ctrl.	0	0	0	0	0	0	0	0	0	0	Sample: 32613
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 #: 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	0	0	0	0	0	0	0	0	KS 8-10-06
100	0	0	0	0	0	0	0	0	0	0	13:40

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 2 of 4)

Client: CAS / GE PITTSFIELD **Test #:** 48823 **SDG:** 9753

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	6	4	5	3	4	5	4	3	4	Day 3
Rec. Ctrl.	5	4	5	4	3	4	3	5	5	5	Sample: 32613
6.25	5	5	6	4	5	4	5	4	5	4	Fed *Sel* / YCT ✓
12.5	5	4	5	4	6	4	6	5	4	3	*Sel* Lot #: 8306Sel
25	6	5	4	3	5	5	5	4	5	5	YCT Lot #: 8306YC
50	5	6	2	6	0	4	4	6	4	5	Date/time/Init.
75	5	5	6	5	5	7	5	4	4	5	8-11-06
100	6	4	5	6	6	7	5	6	5	4	15:30 JG
Lab Ctrl	8	9	6	7	0	9	9	8	8	9	Day 4
Rec. Ctrl.	9	8	7	8	10	9	7	8	9	9	Sample: 32771
6.25	10	7	8	7	8	8	10	7	8	8	Fed *Sel* / YCT ✓
12.5	8	10	7	9	8	9	8	10	9	8	*Sel* Lot #: 8806Sel
25	7	9	8	8	10	8	9	8	11	10	YCT Lot #: 71306YC
50	9	8	10	9	0	9	10	9	8	10	Date/time/Init.
75	8	11	9	12	10	9	10	12	10	9	8-12-06
100	13	10	9	10	11	11	12	10	11	12	12:30 JG
Lab Ctrl	0	0	0	0	4	0	0	0	0	0	Day 5
Rec. Ctrl.	0	0	0	0	0	0	D	0	0	0	Sample: 32771
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 #: above
25	0	0	0	0	0	0	0	0	0	0	YCT Lot #: above
50	17	0	0	0	0	0	0	0	0	0	Date/time/Init.
75	0	19	0	0	0	0	0	0	0	0	KS 8-13-06
100	0	0	0	0	0	0	0	0	0	0	13:20

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 #: 48823** **SDG: 9753**

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	17	20	15	0	6	16	16	17	17	14	Day 6
Rec. Ctrl.	21	20	17	16	16	8	D	16	20	17	Sample: 32771
6.25	17	19	16	16	19	18	15	18	19	16	Fed *Sel* / YCT —
12.5	19	19	20	8	19	14	17	19	18	15	*Sel* Lot #: —
25	20	22	19	19	20	16	18	15	19	15	YCT Lot #: —
50	0	20	15	17	0/D	17	17	20	18	18	Date/time/Init.
75	17	0	18	13	19	20/19 KS	18	19	16	15	KS 8-14-06
100	11	12	22	20	17	18	16	15	15	19	14:10
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 .

Ceriodaphnia dubia Survival and Reproduction Data (Page 4 of 4)

Client: CAS / GE PITTSFIELD | Test #: 48823 | SDG: 9753

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 ✓ 8-8-06 11:30
Na thio	0	0	0	0	0	0	0	0	0	0	Day 1 Fed KS ✓ 8-9-06 11:45
Na thio	0	0	0	0	0	0	0	0	0	0	Day 2 Fed KS ✓ 8-10-06 13:25
Na thio	4	5	5	5	4	5	6	6	5	5	Day 3 Fed JG ✓ 8-11-06 15:30
Na thio	10	9	8	8	8	9	10	8	9	10	Day 4 Fed 8-12-06 12:30 JG ✓
Na thio	0	0	0	0	0	0	0	0	0	0	Day 5 Fed KS ✓ 8-13-06 13:00
Na thio	16	10	19	17	17	15	1/D	17	17	15	Day 6 Fed KS 8-14-06 13:50
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 .

① Immobile - May be dead. KS. 8-13-06

Aquatec Biological Sciences Williston, Vermont

Reviewed by: _____ Date: 8/22/06

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)
7/31A	KS 8/7 11:40	–	–	✓ 72506Sel 8306YC
7/31B	KS 8/7 11:55	–	–	✓
7/31A	KS 8/7/06 → 16:45		(16)	✓
7/31B	KS 8/7/06 → 16:45		0	–
7/31A	KS 8/8 → 00:00		21	✓
7/31B	KS 8/8 → 00:00		42	✓

Project Description / Test Use: GE Pittsfield

cdcoll.doc

Water Chemistry Data

Client: CAS / GE PITTSFIELD	Test Description: *C. dubia* acute / chronic toxicity *	Test #: 48823	SDG: 9753

INITIAL WATER CHEMISTRY DATA

	Day:	0	1	2	3	4	5	6
Na thio Control	pH	7.8	7.7	7.8	7.6	7.5	7.2	
	DO	8.0	8.0	8.2	8.0	8.5	8.3	
	Temp.	25.4	25.0	24.7	24.8	24.9	24.4	
	Conduct.	308	310	320	308	218	217	
	Init./Date	KK 8/8/06	KK 8/9/06	KS 8/10	JG 8/11	JG 8/12	KS 8/13	

FINAL WATER CHEMISTRY DATA

1	2	3	4	5	6	7
7.5	7.7	7.6	7.6	7.2	7.1	
8.1	7.8	7.9	8.2	8.0	7.9	
24.8	25.2	25.5	25.0	24.7	24.9	
316	324	309	312	237	2x37	
KS 8/9	KS 8/10	JG 8/11	JG 8/12	KS 8/13	KS 8/14	

Water Chemistry Data

Client: CAS / GE PITTSFIELD	Test Description: *C. dubia* acute / chronic toxicity *	Test #: 48823	SDG: 9753

INITIAL WATER CHEMISTRY DATA

	Day:	0	1	2	3	4	5	6
Lab Contr 1:1	pH	7.6	7.5	7.2	7.4	7.4	7.3	
	DO	8.2	7.8	8.2	8.4	8.5	8.3	
	Temp.	24.2	24.3	25.0	24.4	24.7	24.8	~~24.4~~ KS
	Conduct.	240	241	198	200	198	197	
Rec. W Contr (Dil. Water)	pH	7.6	7.7	7.4	7.5	7.8	7.4	
	DO	8.7	8.9	8.9	8.5	8.5	9.1	
	Temp.	24.2	24.9	26.0	24.8	25.1	25.7	~~24.5~~ KS
	Conduct.	276	270	201	200	274	275	
6.25%	pH	7.6	7.7	7.5	7.6	7.9	7.5	
	DO	8.7	9.0	9.0	8.5	8.5	9.2	
	Temp.	24.2	25.0	26.0	24.6	25.0	25.6	~~24.7~~ KS
	Conduct.	323	322	277	276	344	345	
12.5%	pH	7.6	7.7	7.5	7.6	7.9	7.6	
	DO	8.6	9.0	8.9	8.5	8.5	9.2	
	Temp.	24.1	25.1	26.0	24.7	25.0	25.7	
	Conduct.	375	373	347	346	412	414	
25%	pH	7.6	7.7	7.6	7.8	7.9	7.6	
	DO	8.6	9.0	8.9	8.4	8.5	9.2	
	Temp.	24.1	25.0	26.0	24.6	25.1	25.5	
	Conduct.	469	469	484	482	544	547	
50%	pH	7.6	7.7	7.7	7.9	8.0	7.7	
	DO	8.5	8.9	8.9	8.4	8.5	9.1	
	Temp.	24.0	25.0	26.0	24.6	25.1	25.2	
	Conduct.	656	655	755	749	802	807	
75%	pH	7.7	7.8	7.7	7.9	8.0	7.8	
	DO	8.5	8.8	8.9	8.2	8.5	8.9	
	Temp.	23.9	25.0	25.7	24.4	25.0	25.1	
	Conduct.	841	840	1014	1008	1055	1057	
100%	pH	7.7	7.8	7.7	7.9	8.1	7.8	
	DO	8.5	8.8	8.9	8.1	8.4	8.8	
	Temp.	24.0	25.3	25.3	24.3	25.1	25.0	
	Conduct.	1027	1023	1268	1265	1303	1306	
	Sample #	32567	32567	32613	———	32771	———	———
	Init./Date	KK 8/8/06	KK 8/9/06	KS 8/10	08/11/06	JG 8/12	KS 8/13	KS 8/14

FINAL WATER CHEMISTRY DATA

1	2	3	4	5	6	7
7.3	7.3	7.4	7.5	7.3	7.2	
7.9	8.1	7.8	8.3	7.8	7.6	
24.9	24.9	25.1	24.8	24.7	24.7	
251	210	211	209	204	211	
7.7	7.7	7.5	7.6	7.7	7.8	
7.7	7.8	7.6	8.2	7.9	7.5	
25.1	24.9	24.9	24.9	24.4	24.5	
282	281	212	208	282	282	
7.8	7.8	7.7	7.8	7.9	8.0	
7.5	7.6	7.6	8.2	7.8	7.5	
25.1	25.5	24.9	24.8	24.5	24.7	
329	329	284	283	349	349	
7.8	7.9	7.8	7.9	8.0	8.0	
7.5	7.6	7.5	8.2	7.7	7.2	
25.0	25.7	25.0	24.8	24.7	24.8	
375	377	352	352	415	419	
7.9	8.0	7.9	8.0	8.1	8.1	
7.4	7.5	7.5	8.1	7.7	7.4	
25.1	25.7	25.1	24.9	24.8	24.8	
466	474	489	489	547	550	
8.1	8.1	8.2	8.3	8.3	8.3	
7.4	7.5	7.4	8.2	7.7	7.5	
25.1	25.6	25.2	24.9	24.7	24.8	
645	658	750	749	787	798	
8.2	8.2	8.1	8.2	8.2	8.3	
7.4	7.5	7.5	8.2	7.8	7.5	
25.1	25.8	25.0	24.8	24.8	24.9	
821	834	948	960	976	987	
8.2	8.2	8.1	8.2	8.2	8.2	
7.5	7.6	7.5	8.2	7.8	7.5	
25.0	25.9	25.1	24.9	24.8	24.9	
985	984	1131	1161	1171	1167	
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KS 8/9	KS 8/10	JG 8/11	JG 8/12	KS 8/13	KS 8/14	

Aquatec Biological Sciences Williston, Vermont

Reviewed by: J Date: 8/22/06

GE TOX FORMS Cd

Alkalinity and Hardness Worksheet

				Alkalinity					Hardness					
Sample Identifier	LIMS Identifier	Sub ID Code	Sampling Date	Sample Volume	Initial Titrant (ml)	Final Titrant (ml)	Analyst	Analysis Date	Alkalinity	Sample Volume	Initial Titrant (ml)	Final Titrant (ml)	Analyst	Analysis Date	Hardness
32567	Outfall Composite		8/8/06	25	4.1	10.8	KK	8/9/06	268.0	50	22.1	37.5	KS	8/8/06	308.0
32568	Housatonic River A		8/8/06	25	10.8	13.1	KK	8/9/06	92.0	50	37.7	43	KS	8/8/06	106.0
32613	Outfall Composite		8/10/06	25	32.2	40.7	KK	8/10/06	340.0	50	21.5	30.1	KK	8/10/06	172.0
32614	Housatonic River		8/10/06	25	40.7	42.4	KK	8/10/06	68.0	50	30.1	34.3	KK	8/10/06	84.0
32771	Outfall Composite		8/12/06	25	19	28	KS	8/13/06	360.0	25	17.1	26	JG	8/12/06	356.0
32772	Housatonic River		8/12/06	25	28	30.5	KS	8/13/06	100.0	50	26	31.5	JG	8/12/06	110.0

8/22/06

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Sample Preparation

Client: CAS / GE PITTSFIELD **Test #: 48823 (*C. dubia*)** **SDG: 9753**
Test Description: *Ceriodaphnia dubia* acute / chronic toxicity tests

Sample Identification:

Sample Description	Effluent	Receiving Water	Effluent	Receiving Water	Effluent	Receiving Water
Sample #	32567	32568	32613	32614	32771	32772

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
Prepared by (Init./date)	KK 8-8-06		KS 8-10-06		JG 8-12-06	

[1] Record vol. 0.025 N sodium thiosulfate to dechorinate 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) Na thiosulfate control	0	300	300
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	

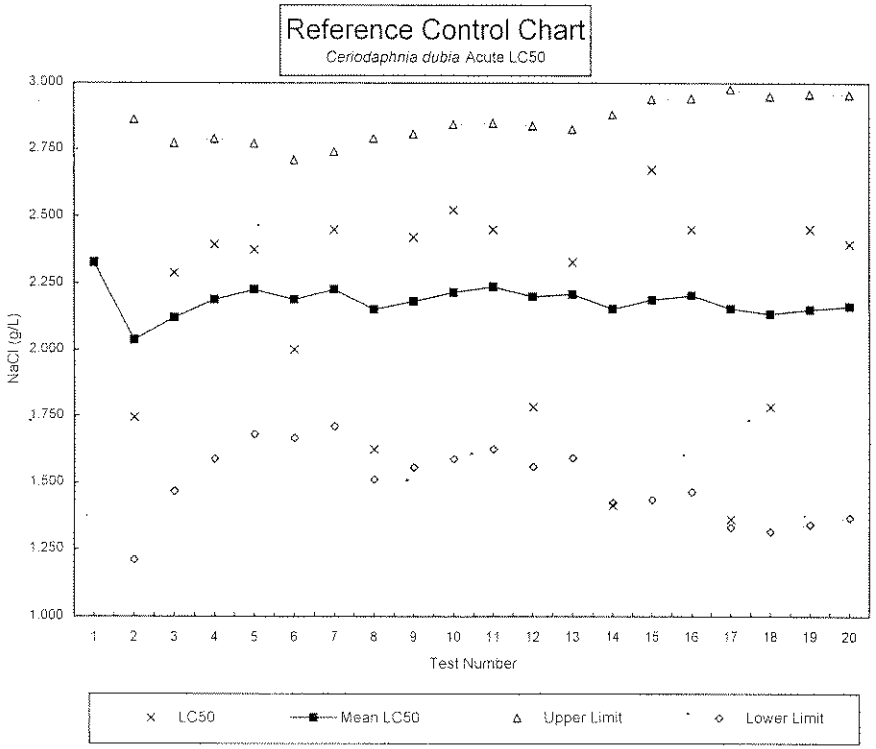
Comments:

Collect alkalinity and hardness samples on each new effluent and receiving water sample.

Appendix 5
Standard Reference Toxicant test Control Chart

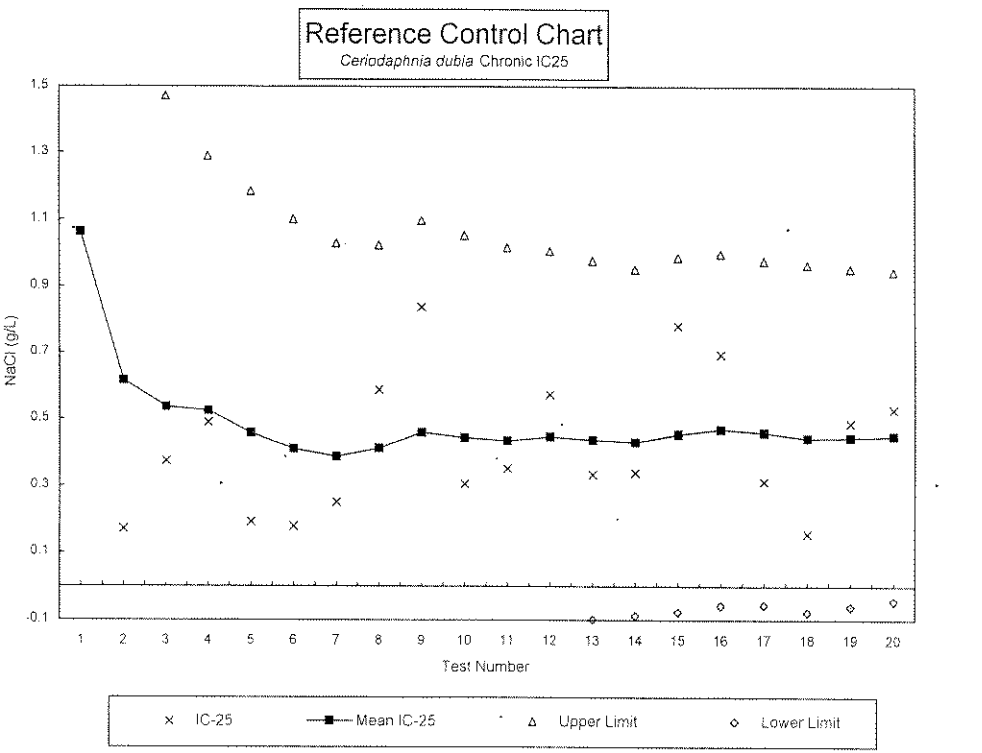
Ceriodaphnia dubia
Reference Control Chart for NaCl Acute Toxicity

Test Number	Test Date	LC50 (g/L)	Mean LC50	Calculated limits Upper	Calculated limits Lower	Organism Source
1	01/04/05	2.328	2.33			
2	02/03/05	1.744	2.04	2.86	1.21	Aquatec Biological Sciences
3	3/2/2005	2.289	2.12	2.77	1.47	Aquatec Biological Sciences
4	4/1/2005	2.395	2.19	2.79	1.59	Aquatec Biological Sciences
5	5/3/2005	2.375	2.23	2.77	1.68	Aquatec Biological Sciences
6	6/2/2005	2.000	2.19	2.71	1.67	Aquatec Biological Sciences
7	7/5/2005	2.450	2.23	2.74	1.71	Aquatec Biological Sciences
8	8/2/2005	1.625	2.15	2.79	1.51	Aquatec Biological Sciences
9	9/6/2005	2.422	2.18	2.81	1.56	Aquatec Biological Sciences
10	10/7/2005	2.522	2.22	2.84	1.59	Aquatec Biological Sciences
11	11/8/2005	2.450	2.24	2.85	1.62	Aquatec Biological Sciences
12	12/6/2005	1.782	2.20	2.84	1.56	Aquatec Biological Sciences
13	1/3/2006	2.328	2.21	2.82	1.59	Aquatec Biological Sciences
14	2/2/2006	1.414	2.15	2.88	1.42	Aquatec Biological Sciences
15	3/2/2006	2.672	2.19	2.94	1.43	Aquatec Biological Sciences
16	4/18/2006	2.450	2.20	2.94	1.46	Aquatec Biological Sciences
17	5/2/2006	1.361	2.15	2.98	1.33	Aquatec Biological Sciences
18	6/13/2006	1.782	2.13	2.95	1.32	Aquatec Biological Sciences
19	7/25/2006	2.450	2.15	2.96	1.34	Aquatec Biological Sciences
20	8/14/2006	2.395	2.16	2.96	1.37	Aquatec Biological Sciences



Ceriodaphnia dubia
Reference Control Chart for NaCl Chronic Toxicity

Test Number	Test Date	IC-25 (g/L)	Mean IC-25	Calculated limits Upper	Calculated limits Lower	Organism Source
1	01/04/05	1.063	1.06			
2	02/03/05	0.171	0.62	1.88	-0.64	Aquatec Biological Sciences
3	03/02/05	0.375	0.54	1.47	-0.40	Aquatec Biological Sciences
4	04/01/05	0.49	0.52	1.29	-0.24	Aquatec Biological Sciences
5	05/03/05	0.192	0.46	1.18	-0.27	Aquatec Biological Sciences
6	06/02/05	0.178	0.41	1.10	-0.28	Aquatec Biological Sciences
7	07/05/05	0.25	0.39	1.03	-0.25	Aquatec Biological Sciences
8	08/02/05	0.587	0.41	1.02	-0.20	Aquatec Biological Sciences
9	09/06/05	0.837	0.46	1.10	-0.18	Aquatec Biological Sciences
10	10/07/05	0.305	0.44	1.05	-0.16	Aquatec Biological Sciences
11	11/08/05	0.352	0.44	1.02	-0.14	Aquatec Biological Sciences
12	12/06/05	0.573	0.45	1.01	-0.11	Aquatec Biological Sciences
13	01/03/06	0.333	0.44	0.98	-0.10	Aquatec Biological Sciences
14	02/02/06	0.339	0.43	0.95	-0.09	Aquatec Biological Sciences
15	03/02/06	0.78	0.46	0.99	-0.08	Aquatec Biological Sciences
16	04/18/06	0.693	0.47	1.00	-0.06	Aquatec Biological Sciences
17	05/02/06	0.313	0.46	0.98	-0.06	Aquatec Biological Sciences
18	06/13/06	0.155	0.44	0.96	-0.08	Aquatec Biological Sciences
19	07/25/06	0.488	0.45	0.95	-0.06	Aquatec Biological Sciences
20	08/14/06	0.529	0.45	0.94	-0.04	Aquatec Biological Sciences



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^{o}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 ± 1°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 ± 1°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 (eg., 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:

Color Code	Test Treatment
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 ± 1°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°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°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 the 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 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 and 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 and "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 (4rd 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 page168 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 (± 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.

DOCUMENT SIGNATURE PAGE

DOCUMENT NAME: SOP TOX2-002 *Ceriodaphnia dubia* chronic Revision 4

Printed Name	I have read and I understand and I agree, to the best of my ability, to follow the procedures outlined in this SOP Signature	Initials	Date

APPENDIX 2

Laboratory Reports

Columbia Analytical Services, Inc.
O'Brien & Gere, Inc.

COLUMBIA ANALYTICAL SERVICES

Reported: 08/18/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7483C

Date Sampled : 08/07/06 11:00 **Order #:** 923277 **Sample Matrix:** WATER
Date Received: 08/08/06 **Submission #:** R2632759

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.567	MG/L	08/15/06	10:25	1.0
CHLORIDE	300.0	0.200	152	MG/L	08/10/06	21:43	40.0
TOTAL ALKALINITY	310.1	2.00	277	MG/L	08/15/06	09:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	6.99	MG/L	08/12/06	00:56	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0796	MG/L	08/14/06	14:56	1.0
TOTAL SOLIDS	160.3	10.0	554	MG/L	08/11/06	14:15	1.0
TOTAL SUSPENDED SOLIDS	160.2	1.00	2.60	MG/L	08/09/06	13:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/18/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7482R

Date Sampled : 08/07/06 08:15 **Order #:** 923275 **Sample Matrix:** WATER
Date Received: 08/08/06 **Submission #:** R2632759

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.0500 U	MG/L	08/15/06	10:25	1.0
CHLORIDE	300.0	0.200	18.2	MG/L	08/10/06	21:26	10.0
TOTAL ALKALINITY	310.1	2.00	105	MG/L	08/15/06	09:30	1.0
TOTAL ORGANIC CARBON	9060	1.00	6.66	MG/L	08/12/06	00:18	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	08/14/06	14:56	1.0
TOTAL SOLIDS	160.3	10.0	159	MG/L	08/11/06	14:15	1.0
TOTAL SUSPENDED SOLIDS	160.2	1.00	2.70	MG/L	08/09/06	13:30	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/18/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7483CTM

Date Sampled : 08/07/06 11:00 **Order #:** 923286 **Sample Matrix:** WATER
Date Received: 08/08/06 **Submission #:** R2632759

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	08/14/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	08/14/06	1.0
CALCIUM	200.7	1.00	68.6	MG/L	08/14/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	08/14/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	08/14/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	08/14/06	1.0
MAGNESIUM	200.7	1.00	28.5	MG/L	08/14/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	08/14/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	08/14/06	1.0
ZINC	200.7	0.0200	0.0200 U	MG/L	08/14/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/18/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7483CCN

Date Sampled : 08/07/06 11:00 **Order #:** 923289 **Sample Matrix:** WATER
Date Received: 08/08/06 **Submission #:** R2632759

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL CYANIDE	335.4	0.0100	0.0279	MG/L	08/17/06	14:35	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/18/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7482RCN

Date Sampled : 08/07/06 08:15 **Order #:** 923288 **Sample Matrix:** WATER
Date Received: 08/08/06 **Submission #:** R2632759

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL CYANIDE	335.4	0.0100	0.0100 U	MG/L	08/15/06	14:57	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/18/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7483CDM

Date Sampled : 08/07/06 11:00 **Order #:** 923282 **Sample Matrix:** WATER
Date Received: 08/08/06 **Submission #:** R2632759

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	08/14/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	08/14/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	08/14/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	08/14/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	08/14/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	08/14/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	08/14/06	1.0
ZINC	200.7	0.0200	0.0252	MG/L	08/14/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/18/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7482RTM

Date Sampled : 08/07/06 08:15 **Order #:** 923287 **Sample Matrix:** WATER
Date Received: 08/08/06 **Submission #:** R2632759

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	08/14/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	08/14/06	1.0
CALCIUM	200.7	1.00	27.4	MG/L	08/14/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	08/14/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	08/14/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	08/14/06	1.0
MAGNESIUM	200.7	1.00	9.59	MG/L	08/14/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	08/14/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	08/14/06	1.0
ZINC	200.7	0.0200	0.0200 U	MG/L	08/14/06	1.0

NPDES Sampling
GE Pittsfield
Toxicity pH

Split Sample
A.TOX / C.TOX # 1
AUG. 2006

Date: 8/7/06

Acute Dry ___
Acute Wet ✓
Chronic 1 (Day 1,2 or 3)

Effluent Composite
Sample # A7483C
Date 8-7-06
Time 1100 AM
pH 7.77 su

River/Dilution Water
Sample # A7482R
Date 8-7-06
Time 815 AM
pH 7.92 su

Mark Wagenbach 8-7-06
Signed & Dated

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7485C

Date Sampled : 08/09/06 11:00 **Order #:** 923292 **Sample Matrix:** WATER
Date Received: 08/10/06 **Submission #:** R2632760

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.531	MG/L	08/15/06	10:25	1.0
CHLORIDE	300.0	0.200	191	MG/L	08/11/06	17:41	40.0
TOTAL ALKALINITY	310.1	2.00	357	MG/L	08/17/06		1.0
TOTAL ORGANIC CARBON	9060	1.00	6.57	MG/L	08/12/06	02:12	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	08/14/06	14:56	1.0
TOTAL SOLIDS	160.3	10.0	683	MG/L	08/11/06	14:15	1.0
TOTAL SUSPENDED SOLIDS	160.2	1.00	1.00 U	MG/L	08/11/06	16:20	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7484R

Date Sampled : 08/09/06 08:15 **Order #:** 923291 **Sample Matrix:** WATER
Date Received: 08/10/06 **Submission #:** R2632760

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.179	MG/L	08/15/06	10:25	1.0
CHLORIDE	300.0	0.200	13.2	MG/L	08/11/06	17:24	10.0
TOTAL ALKALINITY	310.1	2.00	73.3	MG/L	08/17/06		1.0
TOTAL ORGANIC CARBON	9060	1.00	6.03	MG/L	08/12/06	01:34	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	08/14/06	14:56	1.0
TOTAL SOLIDS	160.3	10.0	122	MG/L	08/11/06	14:15	1.0
TOTAL SUSPENDED SOLIDS	160.2	1.00	2.20	MG/L	08/11/06	16:20	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7485CCN

Date Sampled : 08/09/06 11:00 **Order #:** 923300 **Sample Matrix:** WATER
Date Received: 08/10/06 **Submission #:** R2632760

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL CYANIDE	335.4	0.0100	0.0444	MG/L	08/15/06	14:57	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7484RCN

Date Sampled : 08/09/06 08:15 **Order #:** 923299 **Sample Matrix:** WATER
Date Received: 08/10/06 **Submission #:** R2632760

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL CYANIDE	335.4	0.0100	0.0100 U	MG/L	08/15/06	14:57	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7485CTM

Date Sampled : 08/09/06 11:00 **Order #:** 923296 **Sample Matrix:** WATER
Date Received: 08/10/06 **Submission #:** R2632760

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	08/16/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	08/16/06	1.0
CALCIUM	200.7	1.00	86.8	MG/L	08/16/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	08/16/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	08/16/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	08/16/06	1.0
MAGNESIUM	200.7	1.00	37.8	MG/L	08/16/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	08/16/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	08/16/06	1.0
ZINC	200.7	0.0200	0.0200 U	MG/L	08/16/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7485CDM

Date Sampled : 08/09/06 11:00 **Order #:** 923293 **Sample Matrix:** WATER
Date Received: 08/10/06 **Submission #:** R2632760

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	08/16/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	08/16/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	08/16/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	08/16/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	08/16/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	08/16/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	08/16/06	1.0
ZINC	200.7	0.0200	0.0200 U	MG/L	08/16/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/17/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7484RTM

Date Sampled : 08/09/06 08:15 **Order #:** 923297 **Sample Matrix:** WATER
Date Received: 08/10/06 **Submission #:** R2632760

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	08/16/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	08/16/06	1.0
CALCIUM	200.7	1.00	20.7	MG/L	08/16/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	08/16/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	08/16/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	08/16/06	1.0
MAGNESIUM	200.7	1.00	7.31	MG/L	08/16/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	08/16/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	08/16/06	1.0
ZINC	200.7	0.0200	0.0200 U	MG/L	08/16/06	1.0

NPDES Sampling
GE Pittsfield
Toxicity pH

Date: 8/9/06

Acute Dry ___
Acute Wet ___
Chronic 2 (Day 1,2 or 3)

Effluent Composite
Sample # A7485C
Date 8-9-06
Time 1100AM
pH 7.82 su

River/Dilution Water
Sample # A7484R
Date 8-9-06
Time 815AM
pH 7.17 su

Mark Wasnewsky 8-9-06
Signed & Dated

COLUMBIA ANALYTICAL SERVICES

Reported: 08/22/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7487C

Date Sampled : 08/11/06 11:00 **Order #:** 923304 **Sample Matrix:** WATER
Date Received: 08/12/06 **Submission #:** R2632762

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.523	MG/L	08/15/06	10:25	1.0
CHLORIDE	300.0	0.200	196	MG/L	08/16/06	21:00	40.0
TOTAL ALKALINITY	310.1	2.00	366	MG/L	08/17/06	10:00	1.0
TOTAL ORGANIC CARBON	9060	1.00	6.40	MG/L	08/17/06	20:35	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	08/21/06	15:26	1.0
TOTAL SOLIDS	160.3	10.0	694	MG/L	08/18/06	16:20	1.0
TOTAL SUSPENDED SOLIDS	160.2	1.00	1.00 U	MG/L	08/15/06	15:50	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/22/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7486R

Date Sampled : 08/11/06 08:15 **Order #:** 923303 **Sample Matrix:** WATER
Date Received: 08/12/06 **Submission #:** R2632762

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
AMMONIA	350.1	0.0500	0.0500 U	MG/L	08/15/06	10:25	1.0
CHLORIDE	300.0	0.200	18.5	MG/L	08/15/06	12:15	10.0
TOTAL ALKALINITY	310.1	2.00	103	MG/L	08/17/06	10:00	1.0
TOTAL ORGANIC CARBON	9060	1.00	5.01	MG/L	08/17/06	18:41	1.0
TOTAL PHOSPHORUS	365.1	0.0500	0.0500 U	MG/L	08/21/06	15:26	1.0
TOTAL SOLIDS	160.3	10.0	147	MG/L	08/18/06	16:20	1.0
TOTAL SUSPENDED SOLIDS	160.2	1.00	1.00	MG/L	08/15/06	15:50	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/22/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7487CCN

Date Sampled : 08/11/06 11:00 **Order #:** 923310 **Sample Matrix:** WATER
Date Received: 08/12/06 **Submission #:** R2632762

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL CYANIDE	335.4	0.0100	0.0197	MG/L	08/17/06	14:35	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/22/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7486RCN

Date Sampled : 08/11/06 08:15 **Order #:** 923309 **Sample Matrix:** WATER
Date Received: 08/12/06 **Submission #:** R2632762

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
TOTAL CYANIDE	335.4	0.0100	0.0100 U	MG/L	08/15/06	14:57	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/22/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7487CTM

Date Sampled : 08/11/06 11:00 **Order #:** 923307 **Sample Matrix:** WATER
Date Received: 08/12/06 **Submission #:** R2632762

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	08/16/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	08/16/06	1.0
CALCIUM	200.7	1.00	87.2	MG/L	08/16/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	08/16/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	08/16/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	08/16/06	1.0
MAGNESIUM	200.7	1.00	37.4	MG/L	08/16/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	08/16/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	08/16/06	1.0
ZINC	200.7	0.0200	0.0200 U	MG/L	08/16/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/22/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7487CDM

Date Sampled : 08/11/06 11:00 **Order #:** 923305 **Sample Matrix:** WATER
Date Received: 08/12/06 **Submission #:** R2632762

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	08/16/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	08/16/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	08/16/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	08/16/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	08/16/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	08/16/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	08/16/06	1.0
ZINC	200.7	0.0200	0.0200 U	MG/L	08/16/06	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 08/22/06

General Electric
Project Reference: GE-PITTSFIELD BIOMONITORING - 8/06
Client Sample ID : A7486RTM

Date Sampled : 08/11/06 08:15 **Order #:** 923308 **Sample Matrix:** WATER
Date Received: 08/12/06 **Submission #:** R2632762

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	DILUTION
ALUMINUM	200.7	0.100	0.100 U	MG/L	08/16/06	1.0
CADMIUM	200.7	0.00500	0.00500 U	MG/L	08/16/06	1.0
CALCIUM	200.7	1.00	27.8	MG/L	08/16/06	1.0
CHROMIUM	200.7	0.0100	0.0100 U	MG/L	08/16/06	1.0
COPPER	200.7	0.0200	0.0200 U	MG/L	08/16/06	1.0
LEAD	200.7	0.00500	0.00500 U	MG/L	08/16/06	1.0
MAGNESIUM	200.7	1.00	10.2	MG/L	08/16/06	1.0
NICKEL	200.7	0.0400	0.0400 U	MG/L	08/16/06	1.0
SILVER	200.7	0.0100	0.0100 U	MG/L	08/16/06	1.0
ZINC	200.7	0.0200	0.0200 U	MG/L	08/16/06	1.0

NPDES Sampling
GE Pittsfield
Toxicity pH

Date: 8/11/06

Acute Dry ___
Acute Wet ___
Chronic 3 (Day 1,2 or 3)

Effluent Composite
Sample # A7487C
Date 8-11-06
Time 1100 AM
pH 7.85 su

River/Dilution Water
Sample # A7486R
Date 8-11-06
Time 815 AM
pH 7.79 su

Mark Wasnousky 8-11-06
Signed & Dated

APPENDIX 3

Chain of Custody Forms

Columbia Analytical Services, Inc.
An Employee - Owned Company
www.caslab.com

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 _____ OF _____

SR #

CAS Contact

Project Name: NPDES PERMIT	Project Number:
Project Manager: J. NICHOLSON	Report CC:
Company/Address: GE CEP 159 PLASTICS AVE, BLDG 59 PITTSFIELD, MA 01201	
Phone #: (413) 448-5915	FAX#: (413) 447-5935
Sampler's Signature: C. Coyle	Sampler's Printed Name: SEAN COYLE

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCBs ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	O&G - EPA 1664	TSS EPA 160.2	BOD EPA 405.1	CYANIDE EPA 335.4				REMARKS/ ALTERNATE DESCRIPTION
09C-A7490		7.3.06	11 15 AM	H2O	1							X								
64T-A7492		8-7-06	7 00 AM									X								
64G-A7495			7 00 AM									X								
09C-A7497			8 00 AM									X								
09B-A7499			10 45 AM										X							
09B-A7499			10 45 AM											X						
005-~~A501~~ A7501/A7502			11 00 AM										X							
005-A7501/A7502			11 00 AM											X						
A7482RCN	92-3288		8-15 AM												X					
A7483CCN	92-3289		9 00 AM												X					

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS

Metals

- SAMPLES PACKED IN ICE

See QAPP ☐

TURNAROUND REQUIREMENTS

_____ RUSH (SURCHARGES APPLY)

_____ 24 hr _____ 48 hr X 5 day

_____ STANDARD

REQUESTED FAX DATE

_____

REQUESTED REPORT DATE

_____

REPORT REQUIREMENTS

_____ I. Results Only

_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

_____ III. Results + QC and Calibration Summaries

X IV. Data Validation Report with Raw Data

_____ V. Specialized Forms / Custom Report

Edata _____ Yes _____ No

INVOICE INFORMATION

PO#

BILL TO:

SUBMISSION # R2612759

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Mark Wasnewsky	Signature: Heather Livezey	Signature:	Signature:	Signature:	Signature:
Printed Name: MARK WASNEWSKY	Printed Name: Heather Livezey	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: OBG	Firm: CAS	Firm:	Firm:	Firm:	Firm:
Date/Time: 8-7-06 2:00 PM	Date/Time: 8/8/06 915	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-1102-08

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PAGE _____ OF _____

SR #

CAS Contact

Project Name: NPDES Permit	Project Number:
Project Manager: J Nicholson	Report CC:
Company/Address: GE CEP 159 Plastics Ave Bldg 59 Pittsfield MA 01201	
Phone #: 413 448 5915	FAX#: 413 448 5935
Sampler's Signature: Mark Wasnewsky	Sampler's Printed Name: MARK WASNEWSKY

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1 1 0 0 0

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below) (10) EPA 200.7	METALS, DISSOLVED (List in comments below) (8) EPA 200.7	TSS EPA 160.2	Chloride EPA 325.2	Alkalinity	REMARKS/ ALTERNATE DESCRIPTION
A7482RTM	923287	8-7-06	815 AM	H2O	1					X						
A7483CTM	923286		1100 AM							X						
A7483CDM	923282		1100 AM								X					Filtered + Preserved
A7482R	923275		815 AM									X				
A7483R	923277		1100 AM									X				
A7482R	923275		815 AM										X			
A7483C	923277		1100 AM										X			
A7482R	923275		815 AM											X		No Headspace
A7483C	923277		1100 AM											X		No Headspace

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS:
(1) Metals - Listed on sample bottle labels
(2) Samples Packed in Ice

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY) ✓
_____ 24 hr _____ 48 hr _____ 5 day
_____ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

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. Specialized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #: A2632759

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Mark Wasnewsky	Signature: Heather Lukeyn	Signature	Signature	Signature	Signature
Printed Name: MARK WASNEWSKY	Printed Name: Heather Lukeyn	Printed Name	Printed Name	Printed Name	Printed Name
Firm: GE CBG	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 8-7-06 2:00PM	Date/Time: 8/8/06 915	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

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PAGE _____ OF _____

SR #

CAS Contact

Project Name: NPDES Permit	Project Number
Project Manager: J Nicholson	Report CC
Company/Address: GE Corp Environmental 159 Plastics Ave Bldg 59 Pittsfield MA 01201	
Phone #: 413 448 5913	FAX#: 413 448 5935
Sampler's Signature: Mark Wasnewsky	Sampler's Printed Name: MARK WASNEWSKY

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 3 3

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	TOTAL PHOSPHORUS	TOC	REMARKS/ ALTERNATE DESCRIPTION
A7482R	923275	8-7-06	845 AM	H2O	1							X			
A7483C	923277	↓	1100 AM		1							X			
A7482R	923275		815 AM		3								X		
A7483C	923277		1100 AM	↓	3								X		

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals
Samples Packed in Ice

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ✓ 5 day
____ STANDARD
REQUESTED FAX DATE
_____
REQUESTED REPORT DATE
_____

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. Specialized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #: R2632759

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Mark Wasnewsky	Signature: Heather Cargy	Signature	Signature	Signature	Signature
Printed Name: MARK WASNEWSKY	Printed Name: Heather Cargy	Printed Name	Printed Name	Printed Name	Printed Name
Firm: GE	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 8-7-06 200PM	Date/Time: 8/8/06 915	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-1102-06

Cooler Receipt And Preservation Check Form

Project/Client GE Submission Number _____

Cooler received on 8/8/06 by: _____ **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/ROC, CLIENT	
7.	Temperature of cooler(s) upon receipt:	3.1	3.8	____	____ ____
	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: 8/8/06 950

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: 8-8-06

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_2SO_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 H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments:

PC Secondary Review: _____

8/7/2006

CHRONIC AQUATIC TOXICITY COMPOSITE 8C1

Split Sample
C. Tox Lt
AW Tox Aug. 2006

Month: AUG
Week: 2
Fiscal Wk: 32
Weather: Chronic Composite Sample #1

	Gallons/Day	Ml in Composite	Percent of Composite
001	84,010	4,508.41	30.06%
004	0	-	0.00%
007	0	-	0.00%
64T	31,530	1,692.06	11.28%
64G	151,180	8,113.10	54.09%
09A	0	-	0.00%
09B	12,791	686.43	4.58%
	279,511	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# A7483C.

Chain-of-Custody Form Number: 08G080206
Analysis: Split Sample AUG ~~A. Tox / C. Tox 2006~~
~~Location~~ Time: 1100 AM Date: 8-7-06
Sample Label Serial Number A 7483C

Mark Wasnewsky
Signed

8-7-06
Date

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
Name: General Electric Company	Project Name: GE PITTSFIELD	Carrier:
Address: O'Brien & Gere	**Outfall Composite – INITIAL SAMPLE**	
1000 East Street, Gate 64	Project Number: 06004	Airbill Number:
City/State/Zip: Pittsfield, MA 01201	Sampler Name(s): MARK WASNEWSKY	
Telephone: (413) 494-6709	NPDES Permit #: MA0003891	Date Shipped: 8-7-06
Facsimile:	**Ship these samples on Monday.**	
Contact Name: Mark Wasnewsky	Quote #: 10/05 Client Code: GEPITTS	Hand Delivered: ☑ Yes ☐ No

SAMPLE IDENTIFICATION	COLLECTION DATE	COLLECTION TIME	GRAB	COMPOSITE	MATRIX	ANALYSIS	VOLUME/CONTAINER TYPE/ PRESERVATIVE: NUMBER OF CONTAINERS	4°C / Plastic / 1 gal	4°C / Plastic / 1/2 gal	4°C H_2SO_4 / Plastic / 1 L	4°C H_2SO_4 / Glass / 40 ml	4°C / Amber Glass / 250 ml	4°C HNO_3 / Plastic / 0.5 L
Outfall Composite A7483C	8-7-06	11:00 AM		✓	Effluent	*Ceriodaphnia dubia* chronic suvival and reproduction (EPA Method 1002.0) Initial sample	1						
Outfall Composite A7483C		11:00 AM		✓	Effluent	Total Residual Chlorine						1	
Housatonic River A7482R		8:15 AM	✓		Receiving	Dilution Water	2						
Housatonic River A7482R		8:15 AM	✓		Receiving	Total Residual Chlorine						1	

Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*
Mark Wasnewsky	8-7-06	1312	
Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*
Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*

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: 4.0 °C. Dechlorinate the effluent sample if chlorine is detected.

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SR #

CAS Contact

Project Name: NPDES Permit
Project Number:
Project Manager: J Nicholson
Report CC:
Company/Address: GE CEP
159 Plastics Ave Bldg 59
Pittsfield MA 01201
Phone #: 413 448 5915
FAX#: 413 448 5935
Sampler's Signature: Mark Wasnewsky
Sampler's Printed Name: MARK WASNEWSKY

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 2 2 4 0 0

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (10) EPA 200.7 (List in comments below)	METALS, DISSOLVED (10) EPA 200.7 (List in comments below)	CYANIDE EPA 335.4	TSS EPA 160.2	Alkalinity	REMARKS/ ALTERNATE DESCRIPTION
A7484RTM	923297	8-9-06	8:15 AM	H_2O	1						X					
A7485CTM	923296		11:00 AM								X					Filtered + Preserved
A7485CDM	923293		11:00 AM									X				
A7484RCN	923299		8:15 AM									X	X			
A7485CCN	923300		11:00 AM										X			
A7485C	923292		11:00 AM										X			
A7484R	923291		8:15 AM											X		
A7485C	923292		11:00 AM											X		
A7484R	923291		8:15 AM													

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals List on sample bottle label
Samples Packed in Ice

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 24 hr _____ 48 hr ✓ 5 day
_____ STANDARD
REQUESTED FAX DATE
_____
REQUESTED REPORT DATE
_____

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. Specialized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #: R203760

SAMPLE RECEIPT: CONDITION/COOLER TEMP. _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Mark Wasnewsky	Signature:	Signature	Signature	Signature	Signature
Printed Name: MARK WASNEWSKY	Printed Name: Gregory O. Emerman	Printed Name	Printed Name	Printed Name	Printed Name
Firm: GBG	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 8-9-06 2:00 PM	Date/Time: 8-10-06 9:20	Date/Time	Date/Time	Date/Time	Date/Time

SCOC-1102-06

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

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SR #

CAS Contact

Project Name: NPDES Permit
Project Number:
Project Manager: J Nicholson
Report CC:
Company/Address: GE CEP
159 Plastics Ave Bldg 59
Pittsfield MA 01201
Phone #: 413 448 5915
FAX#: 413 448 5935
Sampler's Signature: Mark Wasnewsky
Sampler's Printed Name: MARK WASNEWSKY

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 0 3 3

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	TOTAL SOLIDS & CHLORIDE	TOC	TOTAL PHOSPHORUS & NH3	REMARKS/ ALTERNATE DESCRIPTION
A7485C	923291	8-9-06	1100 AM	H2O	1							X				
A7484R	923291		815 AM		1							X				
A7485C	923292		1100 AM		3								X			
A7484R	923291		815 AM		3								X			
A7485C	923292		1100 AM		1									X		
A7484R	923291		815 AM		1									X		

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals
Samples Packed in Ice

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 24 hr _____ 48 hr ✓ 5 day
_____ STANDARD
REQUESTED FAX DATE
_____
REQUESTED REPORT DATE
_____

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. Specialized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #: R260276

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Mark Wasnewsky	Signature:	Signature	Signature	Signature	Signature
Printed Name: MARK WASNEWSKY	Printed Name: Gregory D. Esmerian	Printed Name	Printed Name	Printed Name	Printed Name
Firm: GE	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 8-9-06 200 PM	Date/Time: 8/10/06 9:20	Date/Time	Date/Time	Date/Time	Date/Time

SCOC-1102-08

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

Cooler Receipt And Preservation Check Form

Project/Client GE Pittsfield Submission Number RA-32760.

Cooler received on 8-10-06 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.)?	(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/ROC)	CLIENT			
7.	Temperature of cooler(s) upon receipt:	4°				
	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: 8-10-06 @ 9:52

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: CG 8-10-06

Cooler Breakdown: Date: 8-10-06 by: KE

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_2SO_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 H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments:

PC Secondary Review: CG 8-11-06

8/9/06

CHRONIC AQUATIC TOXICITY COMPOSITE 8C2

Month: AUG
Week: 2
Fiscal Wk: 32
Weather: Chronic Composite Sample #2

	Gallons/Day	Ml in Composite	Percent of Composite
001	8,160	860.18	5.73%
004	0	-	0.00%
007	0	-	0.00%
64T	7,230	762.15	5.08%
64G	122,660	12,930.18	86.20%
09A	0	-	0.00%
09B	4,245	447.49	2.98%
	142,295	15000	100.00%

The Chronic Toxicity Composite was made today by Mark Wasnewsky 11⁰⁰AM according to the table above, and given the sample ID# A7485C.

Chain-of-Custody Form Number: OBG080906
Analysis: C. TOX 2 AUG 2006
Location: 1100AM Date: 8-9-06
Time
Sample Label Serial Number A 7485C

Mark Wasnewsky
Signed

8-9-06
Date

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
Name: General Electric Company	Project Name: GE PITTSFIELD	Carrier:
Address: O'Brien & Gere	**Outfall Composite – RENEWAL SAMPLE**	
1000 East Street, Gate 64	Project Number: 06004	Airbill Number:
City/State/Zip: Pittsfield, MA 01201	Sampler Name(s): MARK WASNEWSKY	
Telephone: (413) 494-6709	NPDES Permit #: MA0003891	Date Shipped: 8-9-06
Facsimile:	**Ship these samples on Wednesday.**	
Contact Name: Mark Wasnewsky	Quote #: 10/05 Client Code: GEPITTS	Hand Delivered: ☒ Yes ☐ No

VOLUME/CONTAINER TYPE/ PRESERVATIVE					
4°C	4°C	4°C H_2SO_4	4°C H_2SO_4	4°C	4°C HNO_3
Plastic	Plastic	Plastic	Glass	Amber Glass	Plastic
1 gal	1/2 gal	1 L	40 ml	250 ml	0.5 L

SAMPLE IDENTIFICATION	COLLECTION DATE	COLLECTION TIME	GRAB	COMPOSITE	MATRIX	ANALYSIS	NUMBER OF CONTAINERS					
Outfall Composite A7485C	8-9-06	11:00 AM		✓	Effluent	Ceriodaphnia dubia chronic suvival and reproduction (EPA Method 1002.0) – Renewal 1	1					
Outfall Composite A7485C		11:00 AM		✓	Effluent	Total Residual Chlorine					1	
Housatonic River A7484R		8:15 AM	✓		Receiving	Dilution Water	2					
Housatonic River A7484R		8:15 AM	✓		Receiving	Total Residual Chlorine					1	

Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*
Mark Wasnewsky	8-9-06	1330	
Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*
	8/9/06	1755	(Lab)
Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*

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: 1.4 °C. Dechlorinate the effluent sample if chlorine is detected.

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR #

CAS Contact

Project Name: NPDES Permit	Project Number:
Project Manager: J Nicholson	Report CC:
Company/Address: GE CEP 159 Plastics Ave Bldg 59 Pittsfield MA 01201	
Phone #: 413 448 5915	FAX#: 413 448 5935
Sampler's Signature: Mark Wasnewsky	Sampler's Printed Name: MARK WASNEWSKY

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 2 2 4 0 0

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below) 200.7 CLP	METALS, DISSOLVED (List in comments below) 200.7	CYANIDE - 335.4	TSS @ PA 160.2	TOTAL SOLIDS 160.3	CHLORIDE	REMARKS/ ALTERNATE DESCRIPTION
A7486RTM	923308	8-11-06	815 AM	H2O	1						X						
A7487CTM	923307		1100 AM								X						
A7487CDM	923305		1100 AM									X					Filtered & Preserved
A7486RCN	923309		815 AM										X				
A7487CCN	923310		1100 AM										X				
A7486R	923303		815 AM											X			
A7487C	923304		1100 AM											X			
A7486R	923303		815 AM												X		
A7487C	923304		1100 AM												X		

Preservative Key
0. NONE
1. HCl
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals Listed on sample labels
Samples Packed in ice

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
• 24 hr ___ 48 hr ✓ 5 day
_____ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

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. Specialized Forms / Custom Report
Edata Yes ___ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #: R2632762

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Mark Wasnewsky	Signature: Heather Lavigne	Signature	Signature	Signature	Signature
Printed Name: MARK WASNEWSKY	Printed Name: Heather Lavigne	Printed Name	Printed Name	Printed Name	Printed Name
Firm: GE	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 8-11-06 2000	Date/Time: 8/12/06 1015	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-1102-08

Columbia Analytical Services, INC.
An Employee - Owned Company
www.caslab.com

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 _____ OF _____

SR #

CAS Contact

Project Name: NPDES Permit	Project Number:
Project Manager: J Nicholson	Report CC:
Company/Address: GE CEP 159 Plastics Ave Bldg 59 Pittsfield MA 01201	
Phone #: 413 448 5915	FAX#: 413 448 5935
Sampler's Signature: Mark Wasnewsky	Sampler's Printed Name: MARK WASNEWSKY

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 3 3 0

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	TOC	TOTAL PHOSPHORUS + NH3	Alkalinity	REMARKS/ ALTERNATE DESCRIPTION
A7486R	923303	8-11-06	8:15 AM	H_2O	3								X			
A7487C	923304	↓	1100 AM	↓	3								X			
A7486R	923303		8:15 AM		1									X		
A7487C	923304		1100 AM		1									X		
A7486R	923303		8:15 AM		1										X	
A7487R	923304		1100 AM		1										X	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

Samples packed in ice

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 24 hr _____ 48 hr ✓ 5 day
_____ STANDARD
REQUESTED FAX DATE
_____
REQUESTED REPORT DATE
_____

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. Specialized Forms / Custom Report
Edata ___ Yes ___ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #: R2632762

SAMPLE RECEIPT: CONDITION/COOLER TEMP _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Mark Wasnewsky	Signature: Heather Lavoy	Signature	Signature	Signature	Signature
Printed Name: MARK WASNEWSKY	Printed Name: Heather Lavoy	Printed Name	Printed Name	Printed Name	Printed Name
Firm: OBG	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 8-11-06 2045	Date/Time: 8/12/06 1015	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

SCOC-1102-08

Cooler Receipt And Preservation Check Form

Project/Client GE Submission Number ____________

Cooler received on 8/12/06 by: [illegible] 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/ROC),	CLIENT	

7. Temperature of cooler(s) upon receipt: 4.1 ______ ______ ______ ______

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: 8/12/06 1040

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: [illegible] 8-14-06

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_2SO_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 H_2SO_4

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2		

Other Comments:

PC Secondary Review: ____________

H:\SMODOCS\Cooler Receipt v 2.doc

8/11/2006

CHRONIC AQUATIC TOXICITY COMPOSITE 8C3

Month: AUG
Week: 2
Fiscal Wk: 32
Weather: Chronic Composite Sample #3

	Gallons/Day	Ml in Composite	Percent of Composite
001	7,750	941.02	6.27%
004	0	-	0.00%
007	0	-	0.00%
64T	7,820	949.52	6.33%
64G	107,930	13,105.09	87.37%
09A	0	-	0.00%
09B	36	4.37	0.03%
	123,536	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# A7487C.

Chain-of-Custody Form Number: OBGOF1104
Analysis: C.TOX 3 AUG 2006
~~Location:~~ Time: 1100 AM Date: 8-11-06
Sample Label Serial Number A 7487C

Mark Wasnewsky
Signed

8-11-06
Date

Aquatec Biological Sciences
Chain-of-Custody Record

278 Commerce Street
Williston, VT 05495
TEL: (802) 860-1638
FAX: (802) 658-3189

COMPANY INFORMATION	COMPANY'S PROJECT INFORMATION	SHIPPING INFORMATION
Name: General Electric Company	Project Name: GE PITTSFIELD	Carrier:
Address: O'Brien & Gere	**Outfall Composite – RENEWAL SAMPLE**	
1000 East Street, Gate 64	Project Number: 06004	Airbill Number:
City/State/Zip: Pittsfield, MA 01201	Sampler Name(s): MARK WASNEWSKY	
Telephone: (413) 494-6709	NPDES Permit #: MA0003891	Date Shipped: 8-11-06
Facsimile:	**Ship these samples on Friday.**	
Contact Name: Mark Wasnewsky	Quote #: 10/05 Client Code: GEPITTS	Hand Delivered: ☒ Yes ☐ No

VOLUME/CONTAINER TYPE/ PRESERVATIVE					
4°C	4°C	4°C H_2SO_4	4°C H_2SO_4	4°C	4°C HNO_3
Plastic	Plastic	Plastic	Glass	Amber Glass	Plastic
1 gal	1/2 gal	1 L	40 ml	250 ml	0.5 L

SAMPLE IDENTIFICATION	COLLECTION DATE	COLLECTION TIME	GRAB	COMPOSITE	MATRIX	ANALYSIS	NUMBER OF CONTAINERS
Outfall Composite A7487C	8-11-06	11:00 AM		✓	Effluent	*Ceriodaphnia dubia* chronic suvival and reproduction (EPA Method 1002.0) – Renewal 2	2
Outfall Composite A7487C	↓	11:00 AM		✓	Effluent	Total Residual Chlorine	1
Housatonic River A7486R		8:15 AM	✓		Receiving	Dilution Water	2
Housatonic River A7486R	↓	8:15 AM	✓		Receiving	Total Residual Chlorine	1

Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*
Mark Wasnewsky	8-11-06	15:30	Philip C Dorney
Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*
To Lab	8/12/06	01:10	Pdorney
Relinquished by: *(signature)*	DATE	TIME	Received by: *(signature)*

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: 1.4 °C. Dechlorinate the effluent sample if chlorine is detected.