



SDMS: 158791

08-0062

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

September 8, 2000

Mr. Dean Tagliaferro
US Environmental Protection Agency
One Congress Street, Suite 1100
Boston, MA 02114-2023

Ms. Susan Steenstrup
Department of Environmental Protection
436 Dwight Street
Springfield, MA 01103

**Re: Upper 1/2-Mile Reach of Housatonic River Removal Action
Monthly Report – August 2000**

Dear Mr. Tagliaferro and Ms. Steenstrup:

In accordance with the approved Removal Action Work Plan - Upper 1/2 Mile Reach of Housatonic River, enclosed please find the August 2000 Monthly Report.

Please call with any questions.

Yours truly,

William A. Horne / for

Andrew T. Silfer, P.E.
Senior Technical Manager

cc: J.R. Bieke, Esquire, Shea & Gardner
M.T. Carroll, GE
T. Conway, EPA
R. Goff, ACE
W.A. Horne, GE
H. Inglis, EPA
J.H. Maxymillian, Maxymillian Technologies
S. Messur, BBL
K.C. Mitkevicius, USACE
T. O'Brien, MA EOE
B. Olson, EPA
A.J. Thomas, Esquire, GE
A. Weinberg, DEP

1.0 Overview:

During August 2000, GE and its contractor Maxymillian Technologies Incorporated (MTI) continued work on the Upper ½ Mile Reach Removal Action. This work included completing the EPA-approved dense non-aqueous-phase liquid (DNAPL) remediation plan in the downstream section of Cell G-1 and a 25-ft. section in the upstream portion of Cell G-2.

Progress throughout the month of August focused on installing a 105 ft. section of Waterloo sheetpile adjacent to the above referenced portions of Cells G-1 and G-2 as a source control measure under the EPA-approved DNAPL remediation plan. The installation of this permanent barrier system, encompassing two concrete headwalls, was completed on August 30, and as the month ended, sheetpile removal activities were beginning, followed by starting the sheetpile installation for Cell F-2.

On August 7, 2000, a thin rainbow-colored oil sheen along with pockets of DNAPL were observed in the upstream portion of Cell G-2. This was in an area that had not been previously reported. GE promptly reported this observation to the National Response Center (NRC), EPA and MDEP. The NRC issued a tracking number 537924 for this release. MDEP did not issue a tracking number.

Weekly status meetings were held on August 2, 9, 16, 23, and 30. Additional meetings between EPA and GE were held throughout the month of August to discuss progress on the DNAPL remediation effort in Cells G-1 and G-2.

2.0 Chronological description of the tasks performed:

Refer to the diagram (Exhibit A) referenced in Section 4.0 and attached to this report for an orientation of the sheetpile cells and their respective locations. In the month of August, GE Buildings 33, 33X and 65 were used as temporary storage facilities for TSCA and non-TSCA material.

At the beginning of the month of August, GE was completing the installation of a permanent sheetpile barrier system proposed along the north bank, which included both headwalls (and corresponding Outfalls 05A and 05B). Once this wall was installed, excavation activities began and lasted roughly 8 days. Approximately 300 CY of DNAPL-impacted sediments were removed from the newly reconfigured Cell G-1/G-2. All observed DNAPL and DNAPL-impacted sediments were removed from this cell and no DNAPL recovery system was required. This material was temporarily stockpiled in Bldgs. 65 and 33X, sampled to determine proper disposal characterization and will be disposed of off site.

After completing the excavation in Cells G-1/G-2, MTI subcontractor C-3 completed the final flushing and sealing/grouting of the Waterloo sheetpile joints. Once sealed, the cell was restored to the existing elevation, verified following the appropriate survey procedures, and de-watering efforts were discontinued on August 30.

The three outfalls (005, 05A, and 05B) that had been diverted to avoid discharging into the cell were extended beyond the newly installed Waterloo sheetpile wall. Additionally the oil/water separator 64-W was restored to its existing operating condition. The 10" and 12" bypass pumps were disassembled and the 36" dia. pipe and 24" pipe plug were removed.

At the end of August, GE began placing TSCA material from the ½ Mile Reach in the Building 71 OPCA. In addition, during August, GE removed, for off-site disposal, the final remaining sediment associated with the coal-tar DNAPL remediation in Cells C and D. GE also continued to monitor coal-tar DNAPL from the 6-inch-diameter coal-tar DNAPL recovery well. In August, no measurable amounts of coal-tar DNAPL/water mixture were collected from that well. Monitoring coal-tar DNAPL will continue on a monthly basis.

Finally, during August, Blasland, Bouck & Lee (on GE's behalf) initiated a caged mussel study to evaluate the impacts of the construction/remediation work. Mussels collected from the Connecticut River were install in the Housatonic River on August 8, 2000, at three locations (four cages per location). These locations are upstream of the Newell Street bridge; downstream of the Lyman Street bridge; and upstream of the Dawes Avenue bridge. On August 21, after approximately 2 weeks, a total of 12 samples were collected (four at each location and submitted for analysis of PCBs and percent lipids (whole body samples minus the shell). This study will be continued with additional sampling events in September.

3.0 Number of samples collected:

Water column monitoring for total suspended solids (TSS) was conducted on a daily basis. Water column PCB samples were collected once every 2 weeks on August 3, 17, and 31 2000. The TSS and PCB results received to date for the month of August are attached to this report (Tables 1A and 1B).

Tables 2, 3, and 4 present a summary of analytical results, including PCB, VOC, SVOC, and TOC data for select samples from DNAPL-impacted sediments temporarily stockpiled in Bldgs. 65 and 33X, which are associated with the DNAPL remediation plan in Cell G-1/G-2. This material will be disposed of off site in September. Note that Table 2 also includes the analytical results from two sediment samples (one in Cell G-1 and one in Cell G-2) collected for future cap monitoring purposes.

In the month of August, particulate air monitoring was conducted from August 1 to August 31. PCB air monitoring was conducted on August 8-9. The results are attached to this report (Tables 5 and 6).

Table 7 includes analytical results for PCBs from the caged mussel study.

Table 8 includes the results from monthly monitoring of the coal-tar DNAPL recovery well.

4.0 Diagrams associated with the tasks performed:

A diagram labeled as Exhibit A shows the location of the Cells (A, B, C, D, E, F, and G) and is attached to this report for reference.

A summary chart (Exhibit B) has been developed to assist in tracking the analytical and physical testing requirements of the various sources of backfill (e.g., isolation material, soil back fill, riprap rock, etc.). Exhibit B includes the volume of backfill materials used, the analytical and physical testing frequencies required by the Work Plan, and the testing that has been performed to date.

5.0 Identification of any reports received and prepared:

During the month of August, meeting summaries from various weekly project status meetings were submitted to EPA, MDEP and EOE. Also, for work completed in July 2000, the monthly reports required by the Consent Decree and the Upper ½ Mile Reach Removal Action Work Plan were both submitted on August 9.

In addition, in August, GE submitted the following:

- Letter of August 18, 2000, requesting approval for an additional temporary storage area in Bldg. 33-North for TSCA and non-TSCA material..

- Letter of August 31, 2000, providing a revised version of the 'W' rock weir construction plan.
- Letter of August 31, 2000, responding to EPA's recommendation for additional DNAPL investigations.

6.0 Photo documentation of activities performed: See attached Figure 1

7.0 Brief description of work to be performed in September 2000:

Throughout the upcoming weeks in the month of September, the following activities are anticipated to take place:

- Remove existing sheetpile from Cell G-1/G-2.
- Complete placing TSCA material that has been temporarily stored in Buildings 65 and 33X in the Building 71 OPCA.
- Install upstream and downstream cutoff walls for Cell F-2 and de-water the cell.
- Complete the excavation and restoration activities in Cell F-2 (south side).
- Begin removal and restoration activities in Cell G-2 (north side).
- Maintain temporary stockpiles of material in Buildings 33, 33X, and 65 (TSCA and non-TSCA).
- Continue monitoring coal-tar DNAPL recovery well.
- Continue caged mussel study.
- Conduct air and water column monitoring.

8.0 Attachments to this report:

- Tables 1A and 1B - Water column monitoring TSS and PCB results.
- Tables 2, 3 and 4 - Analytical results for PCB, TOC, VOC, SVOC, inorganics and oil/grease parameters from stockpiled soil and sediment samples removed during the DNAPL remediation plan in Cell G-1/G-2.
- Table 5 and 6 - Particulate and PCB air monitoring results.
- Table 7 - Results from the caged mussel study.
- Table 8 - Monitoring results from the coal-tar DNAPL recovery well.
- Exhibit A - Diagram to show the locations of cells within the upstream part of the Upper ½ Mile Reach Removal Action.
- Exhibit B – Backfill quantity summary chart.
- Figure 1 - Photo documentation.

TABLE 1A

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

AUGUST 2000

UPPER 1/2 MILE REACH REMOVAL ACTION
HOUSATONIC RIVER PCB/TSS/TURBIDITY MONITORING DURING CONSTRUCTION

Location	Date	Water Depth (ft)	Water Temp. (°C)	Flow (cfs)	Turbidity (ntu) ¹²			Sample ID	Total PCB Concentration ¹³ (ug/l)	Filtered PCB Concentration (ug/l)	TSS (mg/l)
					High	Low	Daily Composite				
Upstream of Newell St. Bridge	8/1/2000	2.3	18	---	2	1	2	---	---	---	---
Downstream of Lyman St. Bridge	8/1/2000	3.3	18	---	2	1	2	---	---	---	---
Upstream of Newell St. Bridge	8/2/2000	2.0	19	---	3	2	2	---	---	---	---
Downstream of Lyman St. Bridge	8/2/2000	2.9	19	---	3	2	2	---	---	---	---
Upstream of Newell St. Bridge	8/3/2000	1.7	20	95	4	2	3	HR-8-3-00-U1	0.0301	ND(0.0250)	4.20
Downstream of Lyman St. Bridge	8/3/2000	2.8	20	94	3	2	3	HR-8-3-00-D1	0.0806	ND(0.0250)	2.10
Upstream of Newell St. Bridge	8/4/2000	3.2	19	---	39	4	11	---	---	---	---
Downstream of Lyman St. Bridge	8/4/2000	4.0	19	---	7	4	7	---	---	---	---
Upstream of Newell St. Bridge	8/7/2000	2.9	19	---	5	3	4	---	---	---	---
Downstream of Lyman St. Bridge	8/7/2000	3.8	19	---	6	3	5	---	---	---	---
Upstream of Newell St. Bridge	8/8/2000	2.7	19	---	3	2	2	---	---	---	---
Downstream of Lyman St. Bridge	8/8/2000	3.5	19	---	3	2	2	---	---	---	---
Upstream of Newell St. Bridge	8/9/2000	1.7	19	---	4	2	3	---	---	---	---
Downstream of Lyman St. Bridge	8/9/2000	2.8	19	---	3	1	2	---	---	---	---
Upstream of Newell St. Bridge	8/10/2000	1.8	19	---	3	2	2	---	---	---	---
Downstream of Lyman St. Bridge	8/10/2000	2.9	19	---	3	2	3	---	---	---	---
Upstream of Newell St. Bridge	8/11/2000	1.7	19	---	7	3	5	---	---	---	---
Downstream of Lyman St. Bridge	8/11/2000	2.8	19	---	4	2	4	---	---	---	---
Upstream of Newell St. Bridge	8/14/2000	2.8	19	---	9	2	7	---	---	---	---
Downstream of Lyman St. Bridge	8/14/2000	3.7	19	---	20	2	8	---	---	---	---
Upstream of Newell St. Bridge	8/15/2000	3.8	20	---	28	4	14	---	---	---	---
Downstream of Lyman St. Bridge	8/15/2000	4.7	20	---	12	5	18	---	---	---	---

TABLE 1A

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

AUGUST 2000

UPPER 1/2 MILE REACH REMOVAL ACTION
HOUSATONIC RIVER PCB/TSS/TURBIDITY MONITORING DURING CONSTRUCTION

Location	Date	Water Depth (ft)	Water Temp. (°C)	Flow (cfs)	Turbidity (ntu) ¹²			Sample ID	Total PCB Concentration ¹³ (ug/l)	Filtered PCB Concentration (ug/l)	TSS (mg/l)
					High	Low	Daily Composite				
Upstream of Newell St. Bridge	8/16/2000	3.2	20	---	38	6	16	---	---	---	---
Downstream of Lyman St. Bridge	8/16/2000	4.1	20	---	51	9	13	---	---	---	---
Upstream of Newell St. Bridge	8/17/2000	2.7	20	---	5	2	4	HR-8-17-00-U1	6.46	0.776	10.5
Downstream of Lyman St. Bridge	8/17/2000	3.8	20	---	3	2	4	HR-8-17-00-D1	5.69	0.734	11.3
Upstream of Newell St. Bridge	8/18/2000	2.2	20	---	---	---	---	---	---	---	---
Downstream of Lyman St. Bridge	8/18/2000	3.2	20	---	---	---	---	---	---	---	---
Upstream of Newell St. Bridge	8/21/2000	1.8	15	---	3	2	3	---	---	---	---
Downstream of Lyman St. Bridge	8/21/2000	2.8	15	---	6	2	4	---	---	---	---
Upstream of Newell St. Bridge	8/22/2000	1.7	19	---	3	2	3	---	---	---	---
Downstream of Lyman St. Bridge	8/22/2000	2.7	19	---	4	2	3	---	---	---	---
Upstream of Newell St. Bridge	8/23/2000	1.8	18	---	4	3	4	---	---	---	---
Downstream of Lyman St. Bridge	8/23/2000	2.6	18	---	4	3	4	---	---	---	---
Upstream of Newell St. Bridge	8/24/2000	2.5	16	170	6	3	6	---	---	---	---
Downstream of Lyman St. Bridge	8/24/2000	3.4	16	172	6	3	6	---	---	---	---
Upstream of Newell St. Bridge	8/25/2000	2.0	17	---	3	2	3	---	---	---	---
Downstream of Lyman St. Bridge	8/25/2000	3.0	17	---	3	2	3	---	---	---	---
Upstream of Newell St. Bridge	8/28/2000	1.5	17	---	3	2	2	---	---	---	---
Downstream of Lyman St. Bridge	8/28/2000	2.6	17	---	3	2	2	---	---	---	---
Upstream of Newell St. Bridge	8/29/2000	1.5	18	---	3	2	2	---	---	---	---
Downstream of Lyman St. Bridge	8/29/2000	2.5	18	---	3	2	2	---	---	---	---
Upstream of Newell St. Bridge	8/30/2000	1.4	18	52	3	2	2	HR-8-30-00-U1	NR	NR	NR
Downstream of Lyman St. Bridge	8/30/2000	2.5	18	52	3	2	2	HR-8-30-00-D1	NR	NR	NR

TABLE 1A

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

AUGUST 2000

UPPER 1/2 MILE REACH REMOVAL ACTION
HOUSATONIC RIVER PCB/TSS/TURBIDITY MONITORING DURING CONSTRUCTION

Location	Date	Water Depth (ft)	Water Temp. (°C)	Flow (cfs)	Turbidity (ntu) ¹²			Sample ID	Total PCB Concentration ¹³ (ug/l)	Filtered PCB Concentration (ug/l)	TSS (mg/l)
					High	Low	Daily Composite				
Upstream of Newell St. Bridge	8/31/2000	1.4	19	---	3	2	2	---	---	---	---
Downstream of Lyman St. Bridge	8/31/2000	2.5	19	---	3	2	2	---	---	---	---

Notes:

1. PCB and TSS samples were collected by Blasland, Bouck & Lee, Inc. and analyzed by Northeast Analytical, Inc.
2. Water depth taken at sampling point (i.e. middle of river).
3. ft - Feet
4. °C - degrees Celsius
5. cfs - cubic feet per second
6. ntu - nephelometric turbidity units
7. --- - No data obtained
8. ND(0.25) - Compound was analyzed for but not detected at the quantitation limit indicated in parentheses.
9. NR - Not yet reported
10. ug/l - micrograms per liter
11. mg/l - milligrams per liter
12. Turbidity Action Level = Turbidity downstream ≤ Turbidity upstream + 50 ntu
13. PCB Action Level = PCBs downstream ≤ PCBs upstream + 5 ug/l

TABLE 1B

**GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS**

**HOUSATONIC RIVER PCB/TSS/TURBIDITY MONITORING DURING CONSTRUCTION
DATA RECEIVED DURING AUGUST 2000
UPPER 1/2 MILE REACH
(Results are presented in parts per million, ppm)**

Sample ID	Location	Date Collected	Aroclor 1016, 1221, 1232, 1242, & 1248	Aroclor 1254	Aroclor 1260	Total PCBs	TSS
HR-7-20-00-U1	Upstream of Newell St. Bridge	7/20/2000	ND(0.0000250)	0.0000365 AF	ND(0.0000250)	0.0000365 AF	3.15
HR-7-20-00-D1	Downstream of Lyman St. Bridge	7/20/2000	ND(0.0000250) [ND(0.0000250)]	0.0000531 AF [0.0000628 AF]	0.000113 [0.000128]	0.000166 [0.000191]	1.10 [1.40]
HR-7-20-00-U1 (FILTERED)	Upstream of Newell St. Bridge	7/20/2000	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	---
HR-7-20-00-D1 (FITLERED)	Downstream of Lyman St. Bridge	7/20/2000	ND(0.0000250) [ND(0.0000250)]	ND(0.0000250) [ND(0.0000250)]	ND(0.0000250) [ND(0.0000250)]	ND(0.0000250) [ND(0.0000250)]	---
HR-8-3-00-U1	Upstream of Newell St. Bridge	8/3/2000	ND(0.0000250)	0.0000301 AF	ND(0.0000250)	0.0000301 AF	4.20
HR-8-3-00-D1	Downstream of Lyman St. Bridge	8/3/2000	ND(0.0000250)	0.0000426 AF	0.0000380	0.0000806	2.10
HR-8-3-00-U1 (FILTERED)	Upstream of Newell St. Bridge	8/3/2000	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	---
HR-8-3-00-D1 (FILTERED)	Downstream of Lyman St. Bridge	8/3/2000	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	ND(0.0000250)	---
HR-8-17-00-U1	Upstream of Newell St. Bridge	8/17/2000	ND(0.0000250)	0.00580	0.000657	0.00646	10.5
HR-8-17-00-D1	Downstream of Lyman St. Bridge	8/17/2000	ND(0.0000250)	0.00474	0.000946	0.00569	11.3
HR-8-17-00-U1 (FILTERED)	Upstream of Newell St. Bridge	8/17/2000	ND(0.0000250)	0.000776 AF	ND(0.0000250)	0.000776 AF	---
HR-8-17-00-D1 (FILTERED)	Downstream of Lyman St. Bridge	8/17/2000	ND(0.0000250)	0.000734 AF	ND(0.0000250)	0.000734 AF	---

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc. and submitted to Northeast Analytical Services, Inc. for analysis of filtered and unfiltered PCBs and Total Suspended Solids (TSS).
2. ND(0.10) - Analyte was not detected. The value in parentheses is the associated detection limit.
3. --- - Not analyzed.
4. AF - Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
5. Blind duplicate results are presented in brackets.

TABLE 2

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

CELLS G1 AND G2 REMOVAL ACTION SEDIMENT SAMPLING
PCB/TOC DATA RECEIVED DURING AUGUST 2000
UPPER 1/2 MILE REACH

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

Sample ID	Date Collected	Aroclor 1016, 1232, 1242, 1248, & 1254	Aroclor 1221	Aroclor 1260	Total PCBs	TOC
HR-33X-SD-1	8/18/2000	ND(10.5)	ND(10.5)	292	292	---
HR-33X-SD-2	8/18/2000	ND(9.98)	ND(9.98)	224	224	---
HR-33X-SD-3	8/18/2000	ND(1.03)	ND(1.03)	39.1	39.1	---
HR-33X-SD-4	8/18/2000	ND(4.94)	ND(4.94)	112	112	---
HR-65-SD-1	8/17/2000	ND(18.0)	ND(18.0)	612	612	---
HR-65-SD-2	8/17/2000	ND(18.2)	ND(18.2)	561	561	---
HR-65-SD-3	8/17/2000	ND(22.7)	ND(22.7)	644	644	---
HR-65-SD-4	8/17/2000	ND(22.1)	ND(22.1)	703	703	---
HR-65-SD-5	8/17/2000	ND(22.2)	ND(22.2)	726	726	---
HR-65-SD-6	8/17/2000	ND(48.4)	ND(48.4)	1650	1650	---
HR-65-SD-7	8/17/2000	ND(28.3) [ND(28.6)]	ND(28.3) [ND(28.6)]	856 [775]	856 [775]	---
HR-65-SD-8	8/17/2000	ND(23.6)	ND(23.6)	736	736	---
HR-65-SD-9	8/17/2000	ND(21.8)	ND(21.8)	545	545	---
HR-65-SD-10	8/17/2000	ND(12.0)	ND(12.0)	304	304	---
HR-G2-SED-CAP-1	8/17/2000	ND(0.0534)	0.632 AB	1.09	1.72	ND(1230)
HR-G1-SED-CAP-2	8/17/2000	ND(0.645)	ND(0.645)	19.0	19.0	ND(5970)

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc. and submitted to Northeast Analytical Services, Inc. for analysis of PCBs. Select samples were analyzed for Total Organic Carbons (TOC) as indicated.
2. AB - Aroclor 1221 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
3. ND - Analyte was not detected. The value in parentheses is the associated detection limit.
4. Field duplicate results are presented in brackets.
5. --- - Not analyzed.

TABLE 3

**GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS**

**CELLS G1 AND G2 REMOVAL ACTION SEDIMENT SAMPLING
VOC, SVOC, AND CONVENTIONAL PARAMETER DATA
RECEIVED DURING AUGUST 2000
UPPER 1/2 MILE REACH**

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

Parameter	Sample ID: Date Collected:	HR-33X-SD-C1 8/18/2000	HR-65-SD-C1 8/17/2000
Volatiles Organics			
1,2,3-Trichlorobenzene		2.90	88.8
1,2,4-Trichlorobenzene		9.43	436
1,2-Dichlorobenzene		ND(0.540)	1.42
1,3-Dichlorobenzene		ND(0.540)	1.24
1,4-Dichlorobenzene		ND(0.540)	11.1
Chlorobenzene		ND(0.540)	2.78
Semivolatile Organics			
Hexachlorobenzene		ND(0.352)	0.762
Conventional Parameters			
Oil & Grease		182	174

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc. and submitted to Northeast Analytical Services, Inc. for analysis of volatiles (VOC), semivolatiles (SVOC), oil & grease, paint filter liquids test, and TCLP parameters excluding pesticides and herbicides.
2. Only those constituents detected in at least one sample are summarized.
3. Refer to Table 13-4 for a summary of paint filter liquids and TCLP data.

TABLE 4

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

CELLS G1 AND G2 REMOVAL ACTION SEDIMENT SAMPLING
TCLP SAMPLE DATA RECEIVED DURING AUGUST 2000
UPPER 1/2 MILE REACH

(Results are presented in parts per million, ppm)

Sample ID Date Collected	TCLP Maximum Concentrations	HR-33X-SD-C1 8/18/2000	HR-65-SD-C1 8/17/2000
Volatile Organics			
Chlorobenzene	100	ND(0.00500)	0.0870
Semivolatile Organics			
None Detected	--	--	--
Inorganics			
Barium	100	0.176	0.549
Conventional Parameters			
Paint Filter Liquids Test	--	No Free Liquids	No Free Liquids

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc. and submitted to Northeast Analytical Services, Inc. for analysis of volatiles, semivolatiles, oil & grease, paint filter liquids test, and TCLP parameters excluding pesticides and herbicides.
2. Only those constituents detected in at least one sample are summarized.
3. Refer to Table 13-3 for a summary of volatile, semivolatile and oil & grease data.

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

AUGUST 2000 PARTICULATE AMBIENT AIR DATA
UPPER 1/2 MILE REACH

Date	Sampler Location	Average Site Concentration (mg/m ³)	BM1 (mg/m ³)	Average Period (Hours:Min)	Predominant Wind Direction
8/1/2000	AM4 (south side of river)	0.004	0.006	5:45 ¹	ENE
8/2/2000	AM4 (south side of river)	0.045	0.045	7:00 ¹	SSW, SW
8/3/2000	AM4 (south side of river)	0.042	0.047	6:30 ¹	SW
8/4/2000	AM4 (south side of river)	0.006	0.009	11:15	NW
8/7/00 ²	AM4 (south side of river)				
8/8/2000	AM4 (south side of river)	0.021	0.025	10:15	W, WNW
8/9/00 ²	AM4 (south side of river)				
8/10/2000	AM4 (south side of river)	0.012	0.014	10:30	WNW
8/11/2000	AM4 (south side of river)	0.007	0.012	9:15	ESE
8/14/00 ²	AM4 (south side of river)				
8/15/2000	AM4 (south side of river)	0.005	0.009	8:45	WNW, W
8/16/00 ²	AM4 (south side of river)				
8/17/2000	AM4 (south side of river)	0.005	0.006	10:30	WNW, W
8/18/2000	AM4 (south side of river)	0.006	0.010	9:30	WSW, SW
8/21/2000	AM4 (south side of river)	0.002	0.007	9:15	NNW, N
8/22/2000	AM4 (south side of river)	0.003	0.009	9:45	SW
8/23/2000	AM4 (south side of river)	0.018	0.021	8:00 ¹	S, SSW
8/24/2000	AM4 (south side of river)	0.025	0.025	9:30	WNW
8/25/2000	AM4 (south side of river)	0.006	0.012	9:45	NNW, N
8/28/2000	AM4 (south side of river)	0.017	0.016	10:00	E, ESE
8/29/2000	AM4 (south side of river)	0.012	0.016	9:30	ESE
8/30/2000	AM4 (south side of river)	0.009	0.018	10:00	S
8/31/2000	AM4 (south side of river)	0.026	0.026	10:15	SSW
Notification Level		0.120			

Notes:

BM-1: Background monitoring location west of Bldg. 42.

AM-4: Air monitoring location behind the former F.W. Webb building on Newell Street.

¹ Sampling period was shortened due to precipitation/threat of precipitation.

² Sampling was not performed due to precipitation/threat of precipitation.

TABLE 6

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

AUGUST 2000 PCB AMBIENT AIR CONCENTRATIONS
UPPER 1/2 MILE REACH

Date	BM-1 ug/m3	AM-3 ug/m3	AM-3 co-located ug/m3	AM-4 ug/m3	AM-5 ug/m3	AM-6 ug/m3
8/8 - 8/9/00	0.0107	0.0474	0.0423	0.0168	0.0179	0.0158
Notification Level	0.05	0.05	0.05	0.05	0.05	0.05

Notes:

BM-1: Background monitoring location west of Bldg. 42.

AM-3: Air monitoring location north bank, north of Bldg. 64W. This location is also a co-located site.

AM-4: Air monitoring location south bank, at 261 Newell St. behind building formerly known as F.W. Webb.

AM-5: Air monitoring location north bank, east of Bldg. 63.

AM-6: Air monitoring location south bank, north edge of GE Newell St. parking area.

TABLE 7

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

HOUSATONIC RIVER CAGED MUSSEL STUDY CONTROL SAMPLES
PCB AND % LIPID DATA RECEIVED DURING AUGUST 2000
UPPER 1/2 MILE REACH

(Results are presented in parts per million, ppm)

Sample ID	Date Collected	Aroclor 1016, 1232, 1242, 1248, & 1254	Aroclor 1221	Aroclor 1260	Total PCBs	Percent Lipids (%)
HRCM-3	8/7/2000	ND(0.0518)	ND(0.0518)	ND(0.0518)	ND(0.0518)	0.324
HRCM-4	8/7/2000	ND(0.0514)	ND(0.0514)	ND(0.0514)	ND(0.0514)	0.491

Notes:

1. Samples were collected by Blasland, Bouck & Lee, Inc. and submitted to Northeast Analytical Services, Inc. for analysis of PCBs and percent lipids..
2. Control samples HRCM-3 and HRCM-4 were collected and submitted for analysis prior to placement of mussels in the Housatonic River.
3. ND - Analyte was not detected. The value in parentheses is the associated detection limit.

TABLE 8

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

UPPER 1/2-MILE REACH OF HOUSATONIC RIVER

DNAPL MONITORING RESULTS - AUGUST 2000

Date	Depth to Water (Feet below MP)	Depth to DNAPL (Feet below MP)	Total Depth (Feet below MP)	DNAPL Thickness (Feet)	DNAPL Removal (Liters)
8/11/2000	7.50	22.50	22.70	0.20	0.00

Notes:

1. Measurement collected from coal tar DNAPL recovery well installed near oil/water separator 64X.
2. DNAPL - Dense Non-Aqueous Phase Liquid.
3. DNAPL removal is not conducted if the observed DNAPL thickness is less than 0.25 feet.

EXHIBIT B

General Electric Company
Pittsfield, Massachusetts

Revision Date: 31-Aug-00

1/2-Mile Removal Action Backfill Tracking Log

Material	Testing Required	Frequency (per ___ cy)	Submittal from MTI		Submittal to EPA		Sample Date	Number of Samples	Quantity Approved for Placement	Quantity Placed (cy)	Comments
			No.	Date	No.	Date					
Soil Backfill/Granular Fill (Brown's Pit)	Grain Size	2000	13/13A	11/17 & 11/18/99	8	12/1/1999	11/16/1999	1	1000	700	Samples Collected as part of Allendale School Project
	PCBs	500	NA	NA	8A	12/15/1999	12/8/1999	2			
	VOCs	2000	NA	NA	14	5/31/2000	5/18/2000	2			
	SVOCs	2000	NA	NA	8A	12/15/1999	7/21-7/28/99	6			
	Metals	2000	NA	NA	8A	12/15/1999	7/21-7/28/99	6			
	TPH	2000	NA	NA	8A	12/15/1999	12/1/1999	3			
Isolation Layer (Pittsfield Sand & Gravel)	Grain Size	500	12	11/17/1999	Letter	11/19/1999	11/1/1999	1	1000	667	Samples collected as part of off-site residential fill program
			12C	3/30/2000	Letter	4/20/2000	3/24/2000	1			
	TOC	500	12	11/17/1999	Letter	11/19/1999	11/2/1999	1			
			12C	3/30/2000	Letter	4/20/2000	3/30/2000	1			
	PCBs	500	NA	NA	Letter	11/19/1999	9/20/1999	4			
			NA	NA	7	12/1/1999	11/19/1999	2			
			NA	NA	Letter	4/20/2000	3/29/2000	2			
	VOCs	2000	NA	NA	Letter	11/19/1999	9/20/1999	4			
	SVOCs	2000	NA	NA	Letter	11/19/1999	9/20/1999	4			
Metals	2000	NA	NA	Letter	11/19/1999	9/20/1999	4				
	TPH	2000	NA	NA	7	12/1/1999	11/19/1999	2			
Isolation Layer (Bushika Sand & Gravel)	Grain Size	500	12A	1/3/2000	Letter	1/6/2000	12/28/1999	1	1000	655	
			12B	1/24/2000	11	2/14/2000	1/19/2000	1			
			12D	5/8/2000	13	5/19/2000	5/2/2000	1			
	TOC	500	12A	1/3/2000	Letter	1/6/2000	12/28/1999	1			
			12B	1/24/2000	11	2/14/2000	1/19/2000	1			
			12D	5/8/2000	13	5/19/2000	5/2/2000	1			
	PCBs	500	NA	NA	10	1/14/2000	1/5/2000	2			
			NA	NA	11	2/14/2000	2/2/2000	2			
			12D	5/8/2000	13A	6/28/2000	6/2/2000	2			
	VOCs	2000	NA	NA	10	1/14/2000	1/5/2000	2			
	SVOCs	2000	NA	NA	10	1/14/2000	1/5/2000	2			
	Metals	2000	NA	NA	10	1/14/2000	1/5/2000	2			
			NA	NA	10	1/14/2000	1/5/2000	2			
		TPH	2000	NA	NA	11	2/14/2000	2/2/2000			
Rip-Rap (9")	Grain Size	2000	15A	11/30/1999	Letter	12/1/1999	11/23/1999	1	2000	1008	
Rip-Rap (12")	Grain Size	2000	18	1/4/2000	Letter	1/6/2000	12/29/1999	1	2000	120	
Topsoil (Woodmont)	Organic Content	500	11/14	11/16 & 11/17/99	9	12/15/1999	11/8/1999	2	500	170	Samples collected as part of off-site residential fill program
	pH	500	11/14	11/16 & 11/17/99	9	12/15/1999	11/8/1999	2			
	PCBs	500	NA	NA	9	12/15/1999	12/8/1999	4			
	VOCs	2000	NA	NA	9	12/15/1999	8/24/1999	4			
	SVOCs	2000	NA	NA	9	12/15/1999	8/24/1999	4			
	Metals	2000	NA	NA	9	12/15/1999	8/24/1999	4			
	TPH	2000	NA	NA	9	12/15/1999	12/8/1999	2			

Notes:

Granular Fill and Soil Backfill have been combined as the same material
Quantities placed include Cells A, B, C, D, DNAPL, E, and F-1

14811
**½ MILE RIVER REMOVAL ACTION
MONTHLY PROGRESS REPORT
AUGUST, 2000
FIGURE 1 PHOTO DOCUMENTATION**

PHOTO NUMBER: 1

PHOTO LOCATION: Cell G-1/G-2.
North side of river looking upstream (east).

PHOTO DESCRIPTION: Installation of
Waterloo sheetpile complete.
Beginning sediment excavation.

PHOTO DATE: 08/08/00



PHOTO NUMBER: 2

PHOTO LOCATION: Cell G-1/G-2
Between outfalls 05A and 05B looking upstream.

PHOTO DESCRIPTION:
Sediment excavation complete at the
upstream and center portions of the cell.

PHOTO DATE: 08/15/00



PHOTO NUMBER: 3

PHOTO LOCATION: North bank.
Cell G-1 looking upstream.

PHOTO DESCRIPTION
Sediment and bank restoration complete.
2 out of 3 outfall extension installed.

PHOTO DATE: 08/30/00



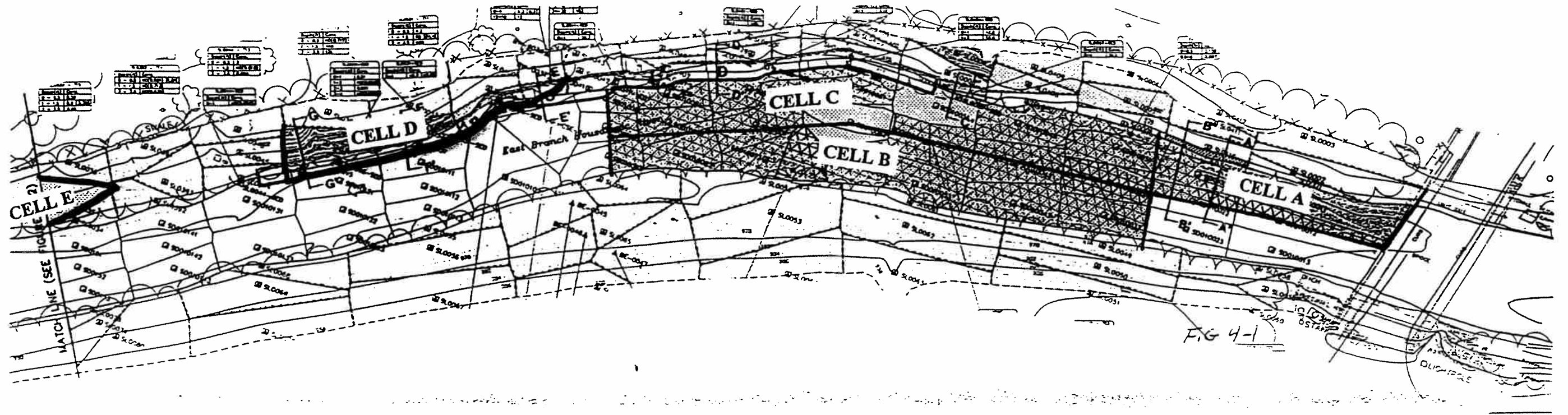


EXHIBIT A
 UPPER 1/2 MILE REACH REMOVAL ACTION

