

**United States Environmental Protection Agency  
EPA New England  
One Congress Street, Suite 1100  
Boston, MA 02114-2023**

June 15, 2004

To: J. Kilborn, EPA  
H. Inglis, EPA  
R. Howell, EPA  
D. Moore, USACE  
K.C. Mitkevicius, USACE  
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S. Peterson, CT DEP  
A. Silber, GE  
J. Novotny, GE  
J.R. Bieke, Esquire, Shea & Gardner  
S. Messur, BBL  
D. Young, MA EOE  
K. Munney, US Fish and Wildlife  
R. Cataldo, ENSR  
R. Nasman, The Berkshire Gas Company  
Mayor Ruberto, City of Pittsfield  
Commissioner of Public Works and Utilities, City of Pittsfield  
Public Information Repositories

RE: May 2004 Monthly Report  
1.5 Mile Reach Removal Action  
GE-Pittsfield/Housatonic River Site

Enclosed please find the May 2004 Monthly Report for the 1.5 Mile Reach Removal Action. In accordance with the Consent Decree for the GE-Pittsfield/Housatonic River Site, the United States Environmental Protection Agency (EPA) is performing the 1.5 Mile Reach Removal Action, with General Electric funding a portion of the project through a cost sharing formula.

The EPA has entered into an agreement with the United States Army Corps of Engineers (USACE) to assist in the design and construction of the Removal Action. The USACE subsequently awarded a design-construct contract to Weston Solutions, Inc. (Weston). Weston, with several subcontractors, will be performing the design and construction activities for the 1.5 Mile Reach Removal Action.

If you have any questions, please contact me at (413) 236-0969.  
Sincerely,

Dean Tagliaferro  
1.5 Mile Reach Removal Action Project Manager

## 1. Overview

During May 2004, the Environmental Protection Agency (EPA), the United States Army Corps of Engineers (USACE), the USACE's contractor, Weston Solutions, Inc., and Weston's subcontractors continued remediation activities on the 1.5 Mile Reach Removal Action. The primary work included backfilling activities in Cells 14 and 15. The installation of the wood façade onto the anchored sheetpile retaining wall in Cell 14E and the cantilevered sheetpile wall in Cell 15E continued. Activities associated with the installation of additional 54-inch gravity bypass pipe for the second part of Phase 2 (600 feet downstream of the Elm Street Bridge to the Dawes Avenue Bridge) were completed. Excavation of riverbank soil in Cell 16E was initiated. In addition, transfer of non-TSCA and TSCA materials from the stockpile management areas to the GE On Plant Consolidation Areas (OPCAs) was performed. Also, transfer of non-TSCA materials from the stockpile management areas to an approved off-site facility was performed.

## 2. Chronological description of tasks performed

Refer to Figure 1 for an orientation of the excavation cells and their respective locations.

By the end of April 2004, backfill activities in Cells 14 and 15 were ongoing. The placement of structural fill including grading and compaction in the first 185 feet of the riverbed and riverbank was completed and the installation of the Articulated Concrete Block (ACB) was initiated in Cells 14W and 15W. Backfilling activities were also initiated in the remaining 345 feet of the riverbed and riverbanks in Cells 14W and 15W. During the first week in May, the backfilling activities in Cells 14 and 15 continued. The installation of geotextile and ACB with polyethylene terephthalate (PET) cable between the blocks was completed in Cells 14W and 15W. The ACB was then anchored with Manta Ray anchors. The anchors were hammered down to a depth of approximately three feet and pulled in place using a hydraulic force of approximately 1.5 to 2.5 tons. The anchors were locked in place, cut below the top of ACB, and grout was then applied to attach each anchor to the ACB.

The riverbed portion of the ACB was covered with a layer of sand to protect it from heavy equipment traffic. A layer of topsoil was placed on top of the riverbank portion of the ACB. On the east bank of Cell 14, installation of concrete grout was completed to tie in the ACB and the crib wall stabilization structure and the anchored sheetpile wall. On the west bank of Cell 14, installation of concrete grout was completed to tie in the ACB to the two storm water outfall structures. The remaining 345 feet of the riverbed in Cells 14W and 15W were backfilled with a layer of filter material in low lying areas followed by a layer of 12-inch rip rap. Areas of the riverbed where bedrock was encountered at very shallow depths will be left with the bedrock exposed. The remaining 345 feet of the riverbank in Cells 14W and 15W were backfilled with common fill or structural fill, a six inch layer filter material and an 18-inch layer of 12-inch rip rap up to either elevation 973 or 974.2.

Backfilling on both the east and west riverbanks in Cells 14 and 15 above the ACB and the rip rap was completed. Common fill, topsoil, herbaceous seed and biodegradable erosion control matting were placed on the riverbanks. Once the backfilling activities were completed silt fencing was installed on the riverbanks for erosion control purposes. Also, the survey contractor completed the post restoration verification survey.

Also, during the first week in May, installation of the wood façade onto the return wall of the anchored sheetpile retaining wall was initiated. First a wood wale was installed directly onto the sheets of the anchored wall followed by the vertical wood slats.

Other activities during the first week of May included activities associated with completing miscellaneous tasks to complete work on the crib wall stabilization structure and the anchored retaining wall. This included the installation of the joint filler material between the pre-cast concrete panels of the crib wall stabilization structure and the application of a rust protection on the two closure plates at the Elm Street Bridge and at the anchored sheetpile retaining wall.

Also by the end of April 2004, site preparation activities were initiated in the second part of Phase 2, including tree clearing and grubbing activities. During the first week in May, tree clearing activities continued on the riverbanks in the second part of Phase 2. Also, the construction of the temporary access roads, load-out areas and a clean material staging area off Deming Street was initiated.

During the second week in May, site preparation activities continued in the second part of Phase 2. Tree clearing and grubbing activities continued. All the tree removal debris was moved to the staging area on the Lyman Street Parking lot for future chipping. Large boulders and debris were removed from the river channel in the second part of Phase 2 in order to prepare for the extension of the 54-inch HDPE pipe bypass system.

The assembly and installation of the additional 54-inch gravity bypass pipe was initiated. Two 1,350-foot sections of 54-inch pipe are scheduled to be installed as part of the gravity bypass system extension. The additional pipe will be connected to the existing 54-inch HDPE pipe at approximately 600ft downstream of the Elm Street Bridge. The new pipe additions will extend the gravity bypass system to within 150 feet of the Dawes Avenue Bridge.

The 54-inch pipe segments were connected together by fusion welding. Restraint bands and fittings were installed onto the pipe approximately every 100 feet. As additional pieces were welded together, a bulldozer situated in the riverbed was used to pull the pipe into the river channel. The stop logs were removed from the temporary dam and the river channel was flooded downstream of the dam to assist in the pipe move. A "skid plate" was constructed to enable the pipe to slide into the river as the pipe assembly process proceeded. In addition, temporary H-piles were installed in the staging area on Parcel I8-24-1 to act as a temporary restraint system while the additional pipe was moved into the river channel. As the pipe was moved downstream it was tied off to the H-piles installed along the riverbanks which will be utilized as part of the pipe restraint system.

Surveying activities continued in the second part of Phase 2 including marking out the top of bank excavation limit down to the Dawes Avenue Bridge. Also, property surveys necessary for restoration purposes on Parcels I8-10-4 and I8-10-5 were completed.

Installation of the wood façade onto the return wall of the anchored sheetpile retaining wall continued. The installation of the façade coping on the return wall was completed. An additional two pair of sheetpile were added to the return wall of the anchored sheetpile retaining wall. The installation of a drain grate at the top of the anchored sheetpile storm water drain opening to prevent debris from falling into the vertical section of the storm drain was completed.

Activities associated with completing miscellaneous left over items on the crib wall stabilization structure and the anchored retaining wall continued. The installation of the soil nail caps was completed on the crib wall structure concluding the crib wall stabilization activities.

Also, during the second week of May activities associated with the installation of the wood guard rail at the top of the riverbank on Parcel I8-23-6 were initiated. The installation of the guard rail posts was completed.

During the third week in May, site preparation activities continued in the second part of Phase 2. Tree clearing and grubbing activities were completed. All the tree removal debris was moved to the staging area on the Lyman Street Parking lot for future chipping.

Activities associated with the assembly and installation of the 54-inch gravity bypass pipe extension continued. The fusion welding of the additional 1,350 feet of the 54-inch pipe was completed. The two 1,350-foot pieces of pipe were connected to the existing two 1,400-foot sections of pipe. The relocation of the 54-inch pipe from the east side of the river channel to the west side was completed. Activities associated with the installation of the anchors for the pipe restraint system were initiated on the east side of the river channel. Six holes were drilled into the bedrock but due to the very brittle condition of the bedrock the bore holes collapsed and the anchors could not be installed. (The condition of the bedrock needed further investigation and an alternative method needs to be proposed for grouted rock anchors).

Flat sheetpiles were installed on the upper riverbank of Cell 16W to create a platform to be used as a dewatering equipment staging area for a 12-inch pump necessary for controlling the water from the storm water outfalls in Cells 14 and 15 and a 6-inch pump for the dewatering activities in the future Cells 16 and 17. Activities associated with setting up an 8-inch force main and the 12-inch and the 6-inch pumps required for dewatering activities in Phase 2 were initiated.

Installation of the wood façade onto the return wall of the anchored sheetpile retaining wall was completed and the installation of the wood façade on the cantilevered wall was initiated. Two additional sheetpiles were added to the downstream end of the cantilevered wall to create a smooth transition between the sheetpile wall and the restored riverbank.

Also, during the third week of May, activities associated with the installation of the wood guard rail at the top of the riverbank on Parcel I8-23-6 were completed. In addition temporary fencing was installed on the river channel side of the guard rail. The temporary fencing will be removed once the 1.5 mile remediation activities are completed. Arborvitae planting activities on Parcel I8-23-6 were initiated. A wall of arborvitae was planted along the top of the riverbank on the

parcel to replace the arborvitae that were removed during the Phase 1 riverbank remediation. The parcel I8-23-6 parking lot area was cleaned up by a street sweeper after planting activities were completed.

Preparatory activities associated with the spring 2004 tree and shrub riverbank restoration planting in the Transition Phase and the first 600 feet of Phase 2 were initiated. The shrub and tree design lay out was completed. The set up of the temporary watering system for the spring 2004 shrub and tree planting was completed.

Other activities during the third week of May included the installation a rip rap swale on the east riverbank in Cell 14, adjacent to Parcel I8-10-4. The swale was necessary to repair and prevent riverbank erosion caused by storm water coming from High Street and the temporary parking lot off High Street. Two similar rip rap swales were constructed on the riverbanks of Cell 12 in Phase 1.

The removal of water treatment system modutank sediment was completed. The remaining two truck loads of sediment from the modutanks were removed and placed into roll-off boxes. The sediment was then mixed with Portland cement for thickening purposes and transported to Building 68 stockpile management area.

During the fourth week in May, site preparation activities continued in the second part of Phase 2. The guard rail was removed along High Street in preparation for riverbank excavation activities in Cell 16E. Temporary security fencing was installed along the top of the riverbanks in Cells 16 and 17. The survey contractor initiated activities associated with delineating the TSCA excavation areas in Cells 16 and 17. Once the TSCA areas were delineated in Cell 16E, activities associated with a construction of a load out area on the riverbank of Cell 16E were initiated. A portion of the designated TSCA material on the west riverbank was excavated and transported to the Building 63 stockpile management area or the Building 71 OPCA. The non-TSCA riverbank material was excavated and transported to the Area 64B stockpile management area. (See Table 1 for quantities of material generated in the month of May 2004 and Table 2 for quantities of material generated to date).

Activities associated with the installation of the anchors for the pipe restriction system continued. Due to the very brittle condition of the bedrock, it was determined that self-drilling anchors will be used and the design depths for each anchor were revised accordingly.

Activities associated with setting up an 8-inch force main and the 12-inch and the 6-inch pumps required for the dewatering system in Phase 2 continued.

Installation of the wood façade on the cantilevered wall was completed. Topsoil was installed on the riverbank between the cantilevered wall and High Street.

Arborvitae planting activities on Parcel I8-23-6 continued. Topsoil and mulch was installed around the newly planted arborvitae trees.

Spring 2004 tree and shrub riverbank restoration planting in the Transition Phase and the first 600ft of Phase 2 were initiated. Trees and shrubs were planted on the east and west riverbank of the Transition Phase and the planting in the first 600 feet of Phase 2 was initiated.

Other activities during the fourth week of May included repairs to the wash out area on the east riverbank in Cell 13 in the Transition Phase. Sand bags were installed on top of the riverbank to divert the parking lot run off until the parking lot is restored by Mobil Corporation.

Since there were no sediment excavation activities during the month of May, the water treatment system was only operational for the first few days of May during the final backfilling activities in Cells 14 and 15. Therefore the monthly sampling of the water treatment system for the month of May was not necessary. Air monitoring for particulate matter (PM10 sampling) and surface water turbidity monitoring were performed on a daily basis during the month of May. The monthly PCB air-monitoring event was performed on May 07, 2004. Surface water sampling for total suspended solids (TSS) and PCBs was performed on May 05, 2004 and May 20, 2004. Confirmatory PCB wipe samples were collected on decontaminated equipment.

In April 2004, in-situ disposal characterization sampling of riverbanks from the rest of Phase 2 was completed. Fifteen eight-point composite samples were collected and analyzed for PCBs, full suite TCLP and physical characteristics for future offsite disposal. The in-situ data revealed four areas on the riverbanks which yielded higher total PCB results than expected based on historical data. Two of the areas on the upstream end of the rest of Phase 2 were re-evaluated and additional PCB sampling was completed. Twelve additional samples were collected (four 2-point composite and 8 discrete samples) for PCB analysis only.

The transfer of non-TSCA materials from the Area 64A, Area 64D and Area 64C north stockpile management areas to the Hill 78 OPCA was performed from May 12, 2004 to May 17, 2004. The transfer of TSCA materials from the Building 63 and Area 64A stockpile management areas and Cell 16E to the Building 71 OPCA was performed from May 18, 2004 to May 27, 2004. (See Table 3 for a summary of material transported to the OPCAs during the month of May 2004 and Table 4 for a summary of material transported to the OPCAs for the project through May 2004).

Also, the non-TSCA materials with PCB results of less than 1ppm that were generated during the deeper excavation activities required on Parcels I8-10-2 and I8-10-3 in Cell 14E were transferred from the Area 64B stockpile management area to the GE Building 40B demolition site. Approximately 870 cy of material was transferred to Building 40B be used as backfill material after the demolition of the building.

In addition, the rest of Cell 14 and 15 non-TSCA riverbank and riverbed excavated materials were transported from Building 65, Area 64C south and Building 68 to the Waste Management of New Hampshire-TREE, Rochester, NH from May 03, 2004 to May 12, 2004. (See Table 5 for a summary of material transported to the Waste Management of New Hampshire-TREE, Rochester, NH during the month of May 2004).

Stockpile management area activities continued throughout the month of May. Daily inspections, operation, and maintenance activities were performed within Buildings 63, 65, Area 64 (the outside stockpile area) and Building 68. Dust control procedures continued for access roads, parking areas, and material storage areas.

Traffic control was conducted on Lyman Street, High Street, Deming Street and Elm Street during the month of May.

### **3. Sampling/test results received**

Analytical results for backfill materials are summarized in Table 6. This includes the sampling results for Common Fill, Topsoil and Structural Fill samples collected on April 21, 2004. The results of the daily particulate air monitoring program are summarized in Table 7. Table 8 is a summary of daily turbidity monitoring results. Results for PCB and TSS samples and water column monitoring data collected on May 05, 2004 are presented in Table 9. The PCB and TSS data for the samples collected on May 20, 2004 are not yet available. Table 10 contains PCB data associated with equipment confirmatory wipe samples. Analytical results for the PCB air sampling conducted on April 21, 2004 and May 07, 2004 are provided in Table 11. Table 12 presents the analytical data associated with in-situ disposal characterization sampling of riverbanks within the remediation areas in the rest of Phase 2 performed from April 15, 2004 to April 27, 2004. Additional PCB sample results associated with the in-situ disposal characterization sampling collected on May 25, 2004 and May 26, 2004 are summarized in Table 12a.

### **4. Diagrams associated with the tasks performed**

Figure 1 is a map of Phase 1, the Transition Phase and Phase 2 and includes the layout of all excavation cells, temporary dam, water monitoring locations, air sampling locations, access road locations, excavation load out locations, staging area locations, fence line location, the water treatment system pad location, and the utility trench location.

### **5. Reports received and prepared**

On April 22, 2004, Weston Solutions, Inc. sent a letter to ACOE and USEPA concerning the *Phase 2 Cobble Handling and Disposal Evaluation*. This letter was prepared to document the analysis Weston has conducted of estimated costs and benefits of alternative methods for handling and disposing of cobble material being excavated as part of Phase 2 of the 1.5 Mile Reach Removal Action. EPA reviewed the letter and concurred with the letter's conclusion that washing, processing and re-using the cobble material excavated from the Elm Street Bridge to the Dawes Avenue Bridge was not cost effective. EPA concurred with Weston's recommendation that it was more cost effective to dispose of the material in GE's OPCAs or in offsite disposal facilities.

Vibration monitoring activities were not performed during the month of May.

## **6. Photo documentation of activities performed**

See attached photos.

## **7. Brief description of work to be performed in June 2004**

- Continue the excavation activities in Cell 16 and 17.
- Continue the 54-inch pipe restraint system anchor installation.
- Complete the tree and shrub installation on the riverbanks in the Transition Phase and Phase II (600 foot stretch).
- Complete the repairs and restoration activities on the parking lots of Parcels I8-10-5 and Parcel I8-10-4.
- Continue stockpile management activities at Buildings 63, 65, 68 and Area 64 (outside contaminated material stockpile area).
- Continue transfer the non-TSCA materials from the stockpile management areas to approved off-site facilities.
- Complete transfer of the water treatment system Modutank sediment material from the stockpile management areas to an approved off-site facility.
- Continue to transfer TSCA material to the OPCAs.
- Continue daily air and turbidity monitoring.
- Continue PCB air sampling (once a month), water column sampling (twice a month), water treatment system sampling (once a month) and backfill material sampling (as needed).

## **8. Attachments to this report**

Table 1. Quantity of Bank and Sediment Material Excavated During the Month of May

Table 2. Quantity of Bank and Sediment Material Excavated to Date

Table 3. Quantity of Material Transferred to OPCAs During the Month of May

Table 4. Quantity of Material Transferred to OPCAs to Date

Table 5. Quantity of non-TSCA Material Transferred to Waste Management of New Hampshire TREE in Rochester, NH. During the Month of May

Table 6. Backfill Material Testing Results

Table 7. Daily Air Monitoring Results

Table 8. Daily Water Column Turbidity Monitoring Results

Table 9. Summary of Turbidity, PCB, and TSS Water Column Monitoring Results

Table 10. Equipment Confirmatory Wipe Sample Results

Table 11. PCB Air Sampling Results

Table 12. In-situ Riverbank Characterization Sampling Analytical Results

Table 12a. Additional In-situ Riverbank Characterization Sampling Analytical Results

Figure 1- 1.5 Mile Removal Action Site Map

Photodocumentation

**Table 1 - Quantity of Bank and Sediment Material Generated During the Month of May  
May 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are reported in cubic yards)

Date	Location	Approximate Quantity of Excavated Bank and Sediment Material		
		non-TSCA	TSCA	NAPL impacted
<b>Bank Soil and Sediment</b>				
5/21/2004	Modutank	0	0	30
5/25/2004	Cell 16E	0	30	0
5/26/2004	Cell 16E	110	70	0
5/27/2004	Cell 16E	160	0	0
5/28/2004	Cell 16E	30	60	0
	<b>Monthly total from bank soil and sediment</b>	<b>300</b>	<b>160</b>	<b>30</b>

Note:

All quantities are in compacted or "in-place" cubic yards. All loads are estimated at 10cy per truck.

**Table 2 - Quantity of Bank and Sediment Material Excavated to Date  
May 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are reported in cubic yards)

		<b>Approximate Quantity of Bank and Sediment Material Excavated to Date</b>			
<b>Date</b>	<b>Location</b>	<b>non-TSCA</b>	<b>TSCA</b>	<b>NAPL impacted</b>	<b>Total</b>
09/26/02 to 10/02/02	Cell 1A	101	0	53	154
10/02/02 to 10/04/02	Cell 1B	60	0	110	170
10/18/02 to 10/29/02	Cell 2	874	175	0	1,049
11/11/02 to 11/15/02	Cell 3	183	0	200	383
11/18/02 to 11/25/02	Cell 4	2,283	198	0	2,481
12/03/02 to 12/10/02	Cell 5	1,629	369	0	1,998
01/07/03 to 01/15/03	Cell 6	832	658	0	1,490
01/10/03 to 01/29/03	Cell 6A	2,611	68	0	2,679
02/03/03 to 02/10/03	Cell 7&7A	1,114	636	0	1,750
02/20/03 to 02/24/03	Cell 5A	899	0	0	899
02/25/03 to 03/07/03	Cell 8&8A	1,245	90	0	1,335
03/14/03 to 03/18/03	Cell 9	603	307	0	910
03/27/03 to 04/07/03	Cell 10&10A	1,730	133	0	1,863
04/14/03 to 04/16/03	Cell 12	668	1,354	0	2,022
04/30/03 to 05/09/03	Cell 11	1,713	341	10	2,064
05/27/03 to 06/12/03	Cell 11A	957	166	462	1,585
06/25/03 to 07/18/03	Cell 12A	1,656	805	656	3,117
09/04/03 to 10/22/03	Cell 13	3,580	298	1,129	5,007
01/08/04 to 03/24/04	Cell 14&15	4,462	288	257	5,007
5/25/04 to 05/28/04	Cell 16E*	300	160	0	460
	<b>Total</b>	<b>27,500</b>	<b>6,046</b>	<b>2,877</b>	<b>36,423</b>

Note:

All quantities determined by pre- and post- excavation surveying.

\* Cell 16E Quantities estimated based on truck counts at 10cy/truck

**Table 3 - Quantity of Material Transferred to OPCAs During the Month of May  
May 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are reported in cubic yards)

Date	# of truckloads	Approximate Quantity Transported to OPCAs	
		Hill 78 (non-TSCA)	Bldg. 71 (TSCA)
<b>Bank Soil and Sediment</b>			
5/12/2004	33	363	0
5/13/2004	33	363	0
5/14/2004	32	352	0
5/17/2004	40	440	0
5/18/2004	9*	0	99*
5/19/2004	21	0	231
5/20/2004	2	0	22
5/25/2004	4	0	44
5/26/2004	2	0	22
5/27/2004	6	0	66
<b>Monthly totals</b>	<b>180</b>	<b>1,518</b>	<b>484</b>

Note:

All quantities are in compacted or "in-place" cubic yards.

(1) Estimated at 11 cy per truck

\* Excludes 23 truck loads of material generated by GE during the Newell Street I remediation and transported to the OPCA by EPA

**Table 4 - Quantity of Material Transferred to OPCAs to Date  
May 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are reported in cubic yards)

Date	Location	Approximate Quantity Transported to OPCAs	
		Hill 78 (non-TSCA)	Bldg. 71 (TSCA)
<b>Site Preparation Activities</b>			
09/11/02	Building 65 Stockpile Management Area	225	
<b>Bank Soil and Sediment</b>			
12/05/02 to 12/19/02	Stockpile Management Area/Excavation Cells	4,718 (1)	910 (1)
02/11/03 to 02/28/03	Stockpile Management Area/Excavation Cells	5,137 (2)	539 (2)
03/03/03 to 03/14/03	Stockpile Management Area/Excavation Cells	1,749 (2)	1,353 (2)
04/07/03 to 04/18/03	Stockpile Management Area/Excavation Cells	2,710 (3)	1,698 (3)
04/07/03 to 04/18/03	Stockpile Management Area/Cleanup Material	370 (3)	40 (3)
05/12/03 to 05/14/03	Stockpile Management Area/Excavation Cells	1,826 (3)	0
05/12/03 to 05/14/03	Stockpile Management Area/Cleanup Material	220 (3)	0
06/11/03 to 06/12/03	Stockpile Management Area/Excavation Cells	0	704 (3)
06/16/03 to 06/17/03	Stockpile Management Area/Excavation Cells	712 (3)	0
06/16/03 to 06/17/03	Stockpile Management Area/Cleanup Material	146 (3)	0
07/07/03 to 07/11/03	Stockpile Management Area/Excavation Cells	1,188 (3)	748 (3)
09/15/03 to 09/30/03	Stockpile Management Area/Excavation Cells	2,090 (3)	308 (3)
10/28/03 to 10/30/03	Stockpile Management Area/Excavation Cells	1,623 (3)	33 (3)
10/28/03 to 10/30/03	Stockpile Management Area/Cleanup Material	181 (3)	0
11/18/03	Demolition Debris from Parcels I8-10-2 and I8-10-3	200 (4)	0
1/12/04	Stockpile Management Area/Excavation Cells	77 (3)	0
04/28/04 to 4/30/04	Stockpile Management Area	0	825 (3)
05/12/04 to 05/27/04	Stockpile Management Area/Excavation Cells/Outfall Repair on Parcel I8-23-6	1,518 (3)	484 (3)
<b>Project Totals</b>		<b>24,690</b>	<b>7,642</b>

**Note:**

All quantities are in compacted or "in-place" cubic yards.

- (1) Estimated at 14cy per truck, loaded with excavator.
- (2) Estimated at 11cy per truck due to loading out frozen material.
- (3) Estimated at 11cy per truck, loaded with front end loader.
- (4) Estimated at 8cy per truck

**Table 5 - Quantity of non-TSCA Material Transported to Waste Management of New Hampshire-TREE, Rochester, N.H.  
During the Month of May  
May 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

**(Results are reported in tons)**

<b>Date Shipped</b>	<b>Doc. Number</b>	<b>Net Weight (Tons) (1)</b>
05/03/04	0098WMNH	28.65
05/03/04	0099WMNH	30.91
05/03/04	0100WMNH	29.54
05/03/04	0101WMNH	27.80
05/03/04	0102WMNH	29.58
05/03/04	0103WMNH	30.19
05/03/04	0104WMNH	31.59
05/03/04	0105WMNH	32.54
05/03/04	0106WMNH	31.81
05/03/04	0107WMNH	29.66
05/04/04	0108WMNH	29.48
05/04/04	0109WMNH	30.55
05/04/04	0110WMNH	29.73
05/04/04	0111WMNH	30.03
05/04/04	0112WMNH	34.42
05/04/04	0113WMNH	30.91
05/04/04	0114WMNH	27.26
05/04/04	0115WMNH	29.48
05/04/04	0116WMNH	31.80
05/04/04	0117WMNH	28.53
05/07/04	0118WMNH	29.41
05/07/04	0119WMNH	30.62
05/07/04	0120WMNH	30.22
05/07/04	0121WMNH	31.48
05/07/04	0122WMNH	31.36
05/07/04	0123WMNH	28.73
05/07/04	0124WMNH	32.52
05/07/04	0125WMNH	32.79
05/10/04	0126WMNH	31.21
05/10/04	0127WMNH	29.54
05/10/04	0128WMNH	25.39
05/10/04	0129WMNH	30.06
05/10/04	0130WMNH	33.09
05/10/04	0131WMNH	29.32

<b>Date Shipped</b>	<b>Doc. Number</b>	<b>Net Weight (Tons) (1)</b>
05/10/04	0132WMNH	31.11
05/10/04	0133WMNH	33.35
05/10/04	0134WMNH	31.41
05/11/04	0135WMNH	28.32
05/11/04	0136WMNH	32.21
05/11/04	0137WMNH	31.49
05/11/04	0138WMNH	33.20
05/11/04	0139WMNH	34.38
05/12/04	0140WMNH	31.94
05/12/04	0141WMNH	33.17
05/12/04	0142WMNH	32.48
<b>Total of Material Disposed</b>		<b>1,350.78</b>

Notes:

(1) Net weights established at the disposal facility

**Table 6 - Backfill Material Testing Results  
May 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are presented in part per million, ppm)

Sample ID	H2-OT000034-0-4A21-1	H2-OT000034-0-4A21-2	H2-OT000034-0-4A21-3	H2-OT000034-0-4A21-4	H2-OT000034-0-4A21-5	Regulatory Limits (1)
Sample type	Common Fill					
Date Collected	04/21/2004					
Analyte						
<b>APP IX SEMIVOLATILES</b>						
	All non-detects	---	---	---	All non-detects	
<b>APP IX VOLATILES</b>						
2-BUTANONE	ND	---	---	---	.0046	0.3
ACETONE	.031	---	---	---	.053	3
NAPHTHALENE	ND	---	---	---	.00085 J	4
<b>METALS</b>						
ANTIMONY	0.52	---	---	---	0.53	10
ARSENIC	9.4	---	---	---	10.4	30
BARIUM	23.5	---	---	---	25.4	1000
BERYLLIUM	0.25	---	---	---	0.24	0.7
CADMIUM	0.51	---	---	---	0.47	30
CHROMIUM	15.2	---	---	---	16.5	1000
COBALT	14.7	---	---	---	16.3	500
COPPER	37.6	---	---	---	36.5	1000
LEAD	16.5	---	---	---	15.1	300
MERCURY	ND	---	---	---	ND	20
NICKEL	27.6	---	---	---	25.5	300
THALLIUM	0.99	---	---	---	1.2	8
TIN	1.2	---	---	---	2.9	10
VANADIUM	11.9	---	---	---	15.7	400
ZINC	78.5	---	---	---	77.6	2500
<b>PCBS</b>						
PCB, TOTAL	ND	ND	ND	ND	ND	0.1*
<b>ORGANIC</b>						
PETROLEUM HYDROCARBON (TPH)	ND	27.7	23.1	22.6	29.5	200*

Notes:

Only detected constituents are summarized

ND - not detected

--- not sampled

(1) - Massachusetts contingency plan S-1 limits

\* - Project specific acceptable levels for backfill

**Table 6 - Backfill Material Testing Results  
May 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are presented in part per million, ppm)

Sample ID	H2-OT000034-0-4A21-6	H2-OT000034-0-4A21-7	H2-OT000034-0-4A21-8	H2-OT000034-0-4A21-9	H2-OT000034-0-4A21-10	Regulatory Limits (1)
Sample type	Common Fill					
Date Collected	04/21/2004	04/21/2004	04/21/2004	04/21/2004	04/21/2004	
Analyte						
<b>APP IX SEMIVOLATILES</b>						
	---	---	---	All non-detects	---	
<b>APP IX VOLATILES</b>						
2-BUTANONE	---	---	---	ND	---	0.3
ACETONE	---	---	---	.033	---	3
NAPHTHALENE	---	---	---	ND	---	4
<b>METALS</b>						
ANTIMONY	---	---	---	0.44	---	10
ARSENIC	---	---	---	9.4	---	30
BARIUM	---	---	---	23.1	---	1000
BERYLLIUM	---	---	---	0.23	---	0.7
CADMIUM	---	---	---	0.47	---	30
CHROMIUM	---	---	---	16.0	---	1000
COBALT	---	---	---	15.8	---	500
COPPER	---	---	---	33.6	---	1000
LEAD	---	---	---	15.4	---	300
MERCURY	---	---	---	0.020	---	20
NICKEL	---	---	---	27.5	---	300
THALLIUM	---	---	---	1.6	---	8
TIN	---	---	---	2.9	---	10
VANADIUM	---	---	---	14.5	---	400
ZINC	---	---	---	85.6	---	2500
<b>PCBS</b>						
PCB, TOTAL	ND	ND	ND	ND	ND	0.1*
<b>ORGANIC</b>						
PETROLEUM HYDROCARBON (TPH)	30.5	25.6	27.6	ND	ND	200*

Notes:

Only detected constituents are summarized

ND - not detected

--- not sampled

(1) - Massachusetts contingency plan S-1 limits

\* - Project specific acceptable levels for backfill

**Table 6 - Backfill Material Testing Results  
May 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are presented in part per million, ppm)

Sample ID	H2-OT000034-0-4A21-11	H2-OT000034-0-4A21-12	H2-OT000034-0-4A21-13	H2-OT000034-0-4A21-14	H2-OT000034-1-4A21-14
Sample type	Common Fill				
Date Collected	04/21/2004	04/21/2004	04/21/2004	04/21/2004	04/21/2004
Analyte					
<b>APP IX SEMIVOLATILES</b>					
	---	---	All non-detects	---	All non-detects
<b>APP IX VOLATILES</b>					
2-BUTANONE	---	---	ND	---	ND
ACETONE	---	---	.044	---	.059
NAPHTHALENE	---	---	ND	---	ND
<b>METALS</b>					
ANTIMONY	---	---	ND	---	0.35
ARSENIC	---	---	12.3	---	9.2
BARIUM	---	---	21.3	---	19.5
BERYLLIUM	---	---	0.20	---	0.21
CADMIUM	---	---	0.43	---	0.42
CHROMIUM	---	---	12.3	---	13.8
COBALT	---	---	13.5	---	14.3
COPPER	---	---	41.2	---	34.1
LEAD	---	---	11.6	---	12.9
MERCURY	---	---	ND	---	ND
NICKEL	---	---	20.7	---	24.6
THALLIUM	---	---	1.6	---	0.96
TIN	---	---	1.0	---	1.6
VANADIUM	---	---	10.7	---	12.3
ZINC	---	---	65.5	---	74.6
<b>PCBS</b>					
PCB, TOTAL	ND	ND	ND	ND	ND
<b>ORGANIC</b>					
PETROLEUM HYDROCARBON (TPH)	ND	ND	ND	27.3	27.7

Notes:

Only detected constituents are summarized

ND - not detected

--- not sampled

(1) - Massachusetts contingency plan S-1 limits

\* - Project specific acceptable levels for backfill

Regulatory Limits (1)
<b>0.3</b>
<b>3</b>
<b>4</b>
<b>10</b>
<b>30</b>
<b>1000</b>
<b>0.7</b>
<b>30</b>
<b>1000</b>
<b>500</b>
<b>1000</b>
<b>300</b>
<b>20</b>
<b>300</b>
<b>8</b>
<b>10</b>
<b>400</b>
<b>2500</b>
<b>0.1*</b>
<b>200*</b>

**Table 6 - Backfill Material Testing Results  
May 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are presented in part per million, ppm)

Sample ID	H2-OT000055-0-4A21-1	H2-OT000055-0-4A21-2	H2-OT000055-0-4A21-3	H2-OT000056-0-4A21-1	H2-OT000056-0-4A21-2	Regulatory Limits (1)
Sample type	Topsoil	Topsoil	Topsoil	Structural Fill	Structural Fill	
Date Collected	04/21/2004	04/21/2004	04/21/2004	04/21/2004	04/21/2004	
Analyte						
<b>APP IX SEMIVOLATILES</b>						
	<b>All non-detects</b>	---	---	<b>All non-detects</b>	---	
<b>APP IX VOLATILES</b>						
2-BUTANONE	.011	---	---	ND	---	<b>0.3</b>
ACETONE	.1	---	---	.038	---	<b>3</b>
NAPHTHALENE	ND	---	---	ND	---	<b>4</b>
<b>METALS</b>						
ANTIMONY	0.68	---	---	0.66	---	<b>10</b>
ARSENIC	5.5	---	---	2.9	---	<b>30</b>
BARIUM	85.0	---	---	48.9	---	<b>1000</b>
BERYLLIUM	0.79 **	---	---	0.35	---	<b>0.7</b>
CADMIUM	0.58	---	---	0.56	---	<b>30</b>
CHROMIUM	16.1	---	---	5.6	---	<b>1000</b>
COBALT	11.7	---	---	7.4	---	<b>500</b>
COPPER	16.9	---	---	10.6	---	<b>1000</b>
LEAD	17.2	---	---	6.6	---	<b>300</b>
MERCURY	0.055	---	---	ND	---	<b>20</b>
NICKEL	20.5	---	---	10.3	---	<b>300</b>
THALLIUM	0.98	---	---	1.4	---	<b>8</b>
TIN	0.81	---	---	ND	---	<b>10</b>
VANADIUM	20.6	---	---	9.2	---	<b>400</b>
ZINC	101	---	---	55.2	---	<b>2500</b>
<b>PCBS</b>						
PCB, TOTAL	ND	ND	ND	ND	ND	<b>0.1*</b>
<b>ORGANIC</b>						
PETROLEUM HYDROCARBON (TPH)	30.1	ND	ND	ND	ND	<b>200*</b>

Notes:

Only detected constituents are summarized

ND - not detected

--- not sampled

(1) - Massachusetts contingency plan S-1 limits

\* - Project specific acceptable levels for backfill

\*\* - Exceedance of S1 Levels; however levels of Beryllium are within the range typically found in New England soils; material approved for use on this project

**Table 7 - Daily Air Monitoring Results  
May 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

<b>Date Collected</b>	<b>Sample Location</b>	<b>Average Site Concentration (mg/m<sup>3</sup>)</b>	<b>Average Period (Hours:Min)</b>
5/3/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
5/4/2004	Upwind	0.000	8
	Downwind	0.027	8
	Background	0.000	8
5/5/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
5/6/2004	Upwind	--	--
	Downwind	0.000	6
	Background	0.000	6
5/7/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
5/10/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
5/11/2004	Upwind	0.027	8
	Downwind	0.000	8
	Background	0.000	8
5/12/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
5/13/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
5/14/2004	Upwind	0.016	11
	Downwind	0.007	10
	Background	--	--
5/17/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
5/18/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
5/19/2004	Upwind	0.000	11
	Downwind	0.000	11
	Background	0.000	11

**Table 7 - Daily Air Monitoring Results  
May 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

<b>Date Collected</b>	<b>Sample Location</b>	<b>Average Site Concentration (mg/m<sup>3</sup>)</b>	<b>Average Period (Hours:Min)</b>
5/20/2004	Upwind	0.000	7
	Downwind	0.001	7
	Background	--	--
5/21/2004	Upwind	0.017	22
	Downwind	0.000	56
	Background	0.045	27
5/24/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
5/25/2004	Upwind	0.000	7
	Downwind	0.000	7
	Background	0.000	7
5/26/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
5/27/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
5/28/2004	Upwind	0.003	49
	Downwind	--	--
	Background	0.042	17
<b>notification level</b>		<b>0.120</b>	
<b>action level</b>		<b>0.150</b>	

Notes:

N/A - Not available due to precipitation

--- - No reading due to technical difficulties with monitoring equipment

**Table 8 - Daily Water Column Turbidity Monitoring Results  
May 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

Date	Flow at Coltsville (cfs)	Location	Turbidity			Temperature
			Average	High	Low	Average
5/1/2004	103	Upstream of Lyman Street Bridge	3.5	8.4	1.9	14.9
		Downstream of Pomeroy Avenue Bridge	-12.9	-12.3	-13.5	15.14
5/2/2004	92	Upstream of Lyman Street Bridge	3.0	3.8	2.0	15.9
		Downstream of Pomeroy Avenue Bridge	-13.5	-13.4	-13.6	15.96
5/3/2004	96	Upstream of Lyman Street Bridge	2.7	9.2	2.0	14.7
		Downstream of Pomeroy Avenue Bridge	-14.4	-12.8	-14.8	14.74
5/4/2004	188	Upstream of Lyman Street Bridge	2.8	7.0	1.7	10.8
		Downstream of Pomeroy Avenue Bridge	-6.5	14.5	-14.9	11.19
5/5/2004	145	Upstream of Lyman Street Bridge	1.8	2.5	1.6	9.72
		Downstream of Pomeroy Avenue Bridge	-7.1	-6.7	-7.6	9.97
5/6/2004	114	Upstream of Lyman Street Bridge	1.7	2.6	1.4	10.30
		Downstream of Pomeroy Avenue Bridge	-6.9	19.7	-15.0	10.87
5/7/2004	107	Upstream of Lyman Street Bridge	4.0	7.4	2.6	13.78
		Downstream of Pomeroy Avenue Bridge	-10.9	-10.1	-11.8	14.22
5/8/2004	87	Upstream of Lyman Street Bridge	4.8	6.1	4.0	13.78
		Downstream of Pomeroy Avenue Bridge	-12.3	-11.6	-13.0	13.97
5/9/2004	92	Upstream of Lyman Street Bridge	4.2	5.1	3.7	12.13
		Downstream of Pomeroy Avenue Bridge	-12.9	-12.4	-13.3	12.19
5/10/2004	103	Upstream of Lyman Street Bridge	3.6	4.5	2.9	11.72
		Downstream of Pomeroy Avenue Bridge	-3.8	10.0	-13.4	14.00
5/11/2004	96	Upstream of Lyman Street Bridge	4.7	5.4	4.1	14.28
		Downstream of Pomeroy Avenue Bridge	-9.5	-6.3	-12.2	14.82
5/12/2004	83	Upstream of Lyman Street Bridge	5.3	6.1	4.8	16.18
		Downstream of Pomeroy Avenue Bridge	-5.2	4.9	-10.9	16.87
5/13/2004	74	Upstream of Lyman Street Bridge	6.6	8.3	5.6	18.16
		Downstream of Pomeroy Avenue Bridge	-5.8	-1.5	-9.7	18.68
5/14/2004	66	Upstream of Lyman Street Bridge	6.2	9.5	2.8	18.43
		Downstream of Pomeroy Avenue Bridge	5.3	9.3	1.9	19.56
5/15/2004	62	Upstream of Lyman Street Bridge	4.2	4.7	3.7	18.54
		Downstream of Pomeroy Avenue Bridge	12.4	175.2	-2.9	19.85
5/16/2004	82	Upstream of Lyman Street Bridge	5.5	6.0	4.9	18.10
		Downstream of Pomeroy Avenue Bridge	6.7	16.0	3.4	18.74
5/17/2004	69	Upstream of Lyman Street Bridge	5.7	6.6	5.0	16.81
		Downstream of Pomeroy Avenue Bridge	4.5	12.2	-2.0	17.69
5/18/2004	55	Upstream of Lyman Street Bridge	6.2	6.6	5.7	17.97
		Downstream of Pomeroy Avenue Bridge	9.7	22.2	0.8	18.68
5/19/2004	78	Upstream of Lyman Street Bridge	6.0	7.5	5.3	18.14
		Downstream of Pomeroy Avenue Bridge	79.6	146.7	3.6	18.35

Date	Flow at Coltsville (cfs)	Location	Turbidity			Temperature
			Average	High	Low	Average
5/20/2004	63	Upstream of Lyman Street Bridge	5.0	6.8	3.5	17.02
		Downstream of Pomeroy Avenue Bridge	46.1	298.6	-1.5	16.88
5/21/2004	56	Upstream of Lyman Street Bridge	5.0	6.8	3.5	16.91
		Downstream of Pomeroy Avenue Bridge	0.4	23.9	-3.5	17.49
5/22/2004	59	Upstream of Lyman Street Bridge	5.7	6.8	5.1	17.35
		Downstream of Pomeroy Avenue Bridge	-2.9	-2.3	-3.6	17.65
5/23/2004	N/A	Upstream of Lyman Street Bridge	4.7	5.9	3.0	15.98
		Downstream of Pomeroy Avenue Bridge	-2.9	-1.2	-4.0	16.37
5/24/2004	52	Upstream of Lyman Street Bridge	4.2	5.1	3.1	16.68
		Downstream of Pomeroy Avenue Bridge	1.2	13.6	-3.7	17.0
5/25/2004	209	Upstream of Lyman Street Bridge	3.2	3.4	3.0	16.85
		Downstream of Pomeroy Avenue Bridge	1.5	3.6	-0.4	17.1
5/26/2004	224	Upstream of Lyman Street Bridge	2.8	4.5	2.5	15.64
		Downstream of Pomeroy Avenue Bridge	-2.8	-0.8	-5.0	16.0
5/27/2004	375	Upstream of Lyman Street Bridge	1.3	1.5	1.2	15.61
		Downstream of Pomeroy Avenue Bridge	5.4	9.3	2.4	17.2
5/28/2004	197	Upstream of Lyman Street Bridge	1.1	1.3	1.1	17.14
		Downstream of Pomeroy Avenue Bridge	2.1	7.2	-1.1	17.3
5/29/2004	133	Upstream of Lyman Street Bridge	1.3	1.6	1.1	15.22
		Downstream of Pomeroy Avenue Bridge	-3.2	-2.3	-3.9	15.47
5/30/2004	92	Upstream of Lyman Street Bridge	1.3	1.5	1.2	15.22
		Downstream of Pomeroy Avenue Bridge	-4.0	-3.2	-4.8	14.13
5/31/2004	72	Upstream of Lyman Street Bridge	1.5	1.7	1.4	14.63
		Downstream of Pomeroy Avenue Bridge	-4.2	-3.2	-5.1	14.88

Notes:

**Turbidity Action Level - Average Downstream (Elm Street)  $\geq$  Average Upstream (Lyman Street) + 50 ntu**

cfs - Cubic feet per second

ntu - nephelometric turbidity units

Measurements collected using YSI 6200 Data Acquisition System using 600 OMS sonde with a 6136 Turbidity Probe

Flow data was obtained from the USGS Station 01197000 in Coltsville, MA at approximately midday.

Negative values are attributed to +/- 2ntu accuracy of the turbidity probe

Exceedence on 5/19 was attributed to street cleaning and hydrant flushing on Pomeroy Avenue on that day.

Turbidity meter at Pomeroy Ave was pulled on 5/13 as a result of negative readings. Upon recalibration, the meter functioned properly for 2 days, before showing calibration drift again on 5/21. The unit was recalibrated on 5/24, and slipped out of calibration again on 5/28. At this time, the meter was pulled again, and YSI tech support was consulted. It is believed that this probe may be from a bad batch with a faulty LED. The probe was replaced. on June 7th.

**Table 9 - Summary of Turbidity, PCB, and TSS Water Column Monitoring Results  
May 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

Location	Date	Estimated Flow (cfs)	Turbidity (ntu)			Water Temp. (°C)	Calculated Flow Beginning (cfs)	Calculated Flow End (cfs)	Sample ID	Total PCB Concentration (ug/l)	Filtered PCB Concentration (ug/l)	TSS (mg/l)
			High	Low	Daily Average							
Upstream of Newell St. Bridge	05/05/04	145	NS	NS	NS	NS	NS	NS	H0-SW000054-0-4Y05	NS	NS	NS
Downstream of Lyman St. Bridge	05/05/04	145	2.5	1.6	1.8	9.72	NS	NS	H2-SW000055-0-4Y05	ND(0.013)	ND(0.013)	2.2
Downstream of Pomeroy Ave. Bridge	05/05/04	145	-6.7	-7.6	-7.1	9.97	164.6	166.7	H2-SW000052-0-4Y05	ND(0.013)	ND(0.013)	2.0
Downstream of Pomeroy Ave. Bridge (duplicate)	05/05/04	145	-6.7	-7.6	-7.1	9.97	164.6	166.7	H2-SW000052-1-4Y05	ND(0.013)	NS	NS
Upstream of Newell St. Bridge	05/20/04	63	NS	NS	NS	NS	NS	NS	H0-SW000054-0-4Y20	NR	NR	NR
Downstream of Lyman St. Bridge	05/20/04	63	6.8	3.5	5.0	71.02	NS	NS	H2-SW000055-0-4Y20	NR	NR	NR
Downstream of Pomeroy Ave. Bridge	05/20/04	63	298.6	-1.5	46.1	16.88	78.4	55.2	H2-SW000052-0-4Y20	NR	NR	NR

Notes:

**PCB Action Level - Downstream (Pomeroy Avenue) ≥ Upstream (Lyman Street) + 5 ug/L**

ND(0.013) - Analyte was not detected. The value in parentheses is the associated detection limit.

cfs - Cubic feet per second

ntu - nephelometric turbidity units

NS - Not Sampled

Temperature measured YSI 600 oms system.

Flow data was obtained from the USGS Station 01197000 in Coltsville, MA at approximately midday.

Water column samples were collected as 4 grab composite samples.

Two flow values calculated, one at the beginning of the sampling event and one at the end of sampling event.

NR - Not yet reported

Turbidity meter at Pomeroy Ave was pulled on 5/13 as a result of negative readings. Upon recalibration, the meter functioned properly for 2 days, before showing calibration drift again on 5/21. The unit was recalibrated on 5/24, and slipped out of calibration again on 5/28. At this time, the meter was pulled again, and YSI tech support was consulted. It is believed that this probe may be from a bad batch with a faulty LED. The probe was replaced on June 7th.

**Table 10 - Equipment Confirmatory Wipe Samples  
May 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are presented in  $\mu\text{g}/100 \text{ cm}^2$ )

Sample ID	Date Collected	Aroclor 1016, 1221, 1232, 1242, & 1248	Aroclor 1254	Aroclor 1260	Total PCBs
H2-XI000164-0-4Y21	21-May-04	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
H2-XI000165-0-4Y21	21-May-04	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
H2-XI000166-0-4Y21	21-May-04	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)

Notes:

**PCB Action Level -  $10.0 \mu\text{g}/100 \text{ cm}^2$**

ND(0.5) - Analyte was not detected. The value in parentheses is the associated detection limit.

**Table 11 - PCB Air Sampling Results  
May 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are presented in  $\mu\text{g}/\text{m}^3$ )

Sample ID	Location*	Date Collected	Aroclor 1016, & 1242	Aroclor 1221, 1232, & 1248	Aroclor 1254	Aroclor 1260
H2-AR000007-0-4A21	background	21-Apr-04	ND(0.00260)	ND(0.00260)	ND(0.00260)	ND(0.00312)
H2-AR000030-0-4A21	AR000030	21-Apr-04	ND(0.00258)	ND(0.00258)	ND(0.00258)	ND(0.00258)
H2-AR000032-0-4A21	AR000032	21-Apr-04	ND(0.00265)	ND(0.00265)	ND(0.00265)	ND(0.00265)
H2-AR000033-0-4A21	AR000033	21-Apr-04	ND(0.00253)	ND(0.00253)	ND(0.00253)	ND(0.00253)
H2-AR000033-1-4A21(duplicate)	AR000033	21-Apr-04	ND(0.00272)	ND(0.00272)	ND(0.00272)	ND(0.00272)
H2-AR000034-0-4A21	AR000034	21-Apr-04	ND(0.00264)	ND(0.00264)	ND(0.00264)	ND(0.00264)
H2-AR000007-0-4Y07	background	07-May-04	ND(0.00256)	ND(0.00256)	<b>0.00333</b>	ND(0.00256)
H2-AR000030-0-4Y07	AR000030	07-May-04	ND(0.00262)	ND(0.00262)	ND(0.00262)	ND(0.00262)
H2-AR000032-0-4Y07	AR000032	07-May-04	ND(0.00271)	ND(0.00271)	ND(0.00271)	ND(0.00271)
H2-AR000033-0-4Y07	AR000033	07-May-04	ND(0.00271)	ND(0.00271)	ND(0.00271)	ND(0.00271)
H2-AR000033-1-4Y07(duplicate)	AR000033	07-May-04	ND(0.00281)	ND(0.00281)	ND(0.00281)	ND(0.00281)
H2-AR000034-0-4Y07	AR000034	07-May-04	ND(0.00249)	ND(0.00249)	<b>0.00299</b>	ND(0.00249)

Notes:

**Notification Level:  $0.05\mu\text{g}/\text{m}^3$**

**Action Level:  $0.1\mu\text{g}/\text{m}^3$**

\* - See Figure 1 for locations

<b>Total PCBs</b>
ND(0.00312)
ND(0.00258)
ND(0.00265)
ND(0.00253)
ND(0.00272)
ND(0.00264)
<b>0.0033</b>
ND(0.00262)
ND(0.00271)
ND(0.00271)
ND(0.00281)
<b>0.00299</b>

**Table 12 - In-situ Riverbank Characterization Sampling Analytical Results  
May 2004 Monthly Report  
GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are presented in part per million, ppm)

Sample ID	H2-OT000107-0-4A14	H2-OT000108-0-4A14	H2-OT000109-0-4A15	H2-OT000110-0-4A15	H2-OT000111-0-4A16
Sample type	insitu characterization sampling	insitu characterization sampling	insitu characterization sampling (1)	insitu characterization sampling (2)	insitu characterization sampling
Date Collected	04/14/2004	04/14/2004	04/15/2004	04/15/2004	04/16/2004
Analyte					
<b>PCBS</b>					
AROCLOR-1254 (mg/kg)	1.6 J	1.6 J	11	15	5.2
AROCLOR-1260 (mg/kg)	5.6	5.7	36	36	19
PCB, TOTAL (mg/kg)	7.2	7.3	47	51	24
<b>TCLP HERBICIDES</b>					
	---	All Non-Detect	All Non-Detect	---	All Non-Detect
<b>TCLP METALS</b>					
BARIUM, TCLP LEACHATE (mg/l)	---	.511	.424	---	.35
CADMIUM, TCLP LEACHATE (mg/l)	---	.0045	.003	---	.0046
CHROMIUM, TCLP LEACHATE (mg/l)	---	.002	.0023	---	.0022
LEAD, TCLP (mg/l)	---	.0708	.0117	---	.0317
SELENIUM, TCLP LEACHATE (mg/l)	---	.0066	ND	---	.0111
SILVER, TCLP LEACHATE (mg/l)	---	ND	.003	---	.002
<b>TCLP PESTICIDES</b>					
	---	All Non-Detect	All Non-Detect	---	All Non-Detect
<b>TCLP SEMIVOLATILES</b>					
	---	All Non-Detect	All Non-Detect	---	All Non-Detect
<b>TCLP VOLATILES</b>					
	---	All Non-Detect	All Non-Detect	---	All Non-Detect
<b>INORGANICS</b>					
CORROSIVITY BY PH (ph)	7.0	6.7	7.5	7.4	7.4
IGNITABILITY (deg f)	150	150	150	150	150
PAINT FILTER LIQUIDS (ml)	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
PERCENT SOLIDS (%)	78.7	74.4	72.5	70.7	74.8

Notes:

(1) - Composite sample area was subdivided into 4 areas and re-sampled for PCBs only. See sample Ids: H2-OT000122-0-4Y25, H2-OT000123-0-4Y25, H2-OT000124-0-4Y25, H2-OT000125-0-4Y25

(2) - Composite sample area was subdivided into 8 areas and re-sampled for PCBs only. See sample Ids: H2-OT000126-0-4Y26, H2-OT000127-0-4Y26, H2-OT000128-0-4Y26, H2-OT000129-0-4Y26, H2-OT000130-0-4Y26, H2-OT000131-0-4Y26, H2-OT000132-0-4Y26, H2-OT000133-0-4Y26

Only detected constituents are summarized

J - Indicates an estimated value

ND - not detected

**Table 12 - In-situ Riverbank Characterization Sampling Analytical Results  
May 2004 Monthly Report  
GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are presented in part per million, ppm)

Sample ID	H2-OT000112-0-4A16	H2-OT000113-0-4A19	H2-OT000114-0-4A19	H2-OT000115-0-4A20	H2-OT000116-0-4A20
Sample type	insitu characterization sampling				
Date Collected	04/16/2004	04/19/2004	04/19/2004	04/20/2004	04/20/2004
Analyte					
<b>PCBS</b>					
AROCLOR-1254 (mg/kg)	2.9	6.6	14	1	1.6
AROCLOR-1260 (mg/kg)	9.4	23	22	6.6	8.4
PCB, TOTAL (mg/kg)	12	30	36	7.6	10
<b>TCLP HERBICIDES</b>					
	---	All Non-Detect	---	All Non-Detect	---
<b>TCLP METALS</b>					
BARIUM, TCLP LEACHATE (mg/l)	---	.775	---	.311	---
CADMIUM, TCLP LEACHATE (mg/l)	---	.003	---	.0036	---
CHROMIUM, TCLP LEACHATE (mg/l)	---	.0088	---	ND	---
LEAD, TCLP (mg/l)	---	.0272	---	.0554	---
SELENIUM, TCLP LEACHATE (mg/l)	---	.0116	---	.0121	---
SILVER, TCLP LEACHATE (mg/l)	---	ND	---	ND	---
<b>TCLP PESTICIDES</b>					
	---	All Non-Detect	---	All Non-Detect	---
<b>TCLP SEMIVOLATILES</b>					
	---	All Non-Detect	---	All Non-Detect	---
<b>TCLP VOLATILES</b>					
	---	All Non-Detect	---	All Non-Detect	---
<b>INORGANICS</b>					
CORROSIVITY BY PH (ph)	8.0	7.3	7.5	7.5	7.5
IGNITABILITY (deg f)	150	150	150	150	150
PAINT FILTER LIQUIDS (ml)	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
PERCENT SOLIDS (%)	82.1	78.9	78.8	84.5	81.1

Notes:  
Only detected constituents are summarized  
J - Indicates an estimated value  
ND - not detected

**Table 12 - In-situ Riverbank Characterization Sampling Analytical Results  
May 2004 Monthly Report  
GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are presented in part per million, ppm)

Sample ID	H2-OT000117-0-4A22	H2-OT000118-0-4A23	H2-OT000119-0-4A24	H2-OT000120-0-4A24	H2-OT000121-0-4A27	
Sample type	insitu characterization sampling					
Date Collected	04/22/2004	04/23/2004	04/24/2004	04/24/2004	04/27/2004	
Analyte						
<b>PCBS</b>						
AROCLOR-1254 (mg/kg)	2.6	6.6	2.5	7.5	ND	
AROCLOR-1260 (mg/kg)	11	42	23	42	3.4	
PCB, TOTAL (mg/kg)	14	49	26	50	3.4	
<b>TCLP HERBICIDES</b>						
	All Non-Detect	---	All Non-Detect	All Non-Detect	---	
<b>TCLP METALS</b>						
BARIUM, TCLP LEACHATE (mg/l)	.299	---	.419	.393	---	
CADMIUM, TCLP LEACHATE (mg/l)	.0028	---	.0021	.0042	---	
CHROMIUM, TCLP LEACHATE (mg/l)	ND	---	ND	.0016	---	
LEAD, TCLP (mg/l)	.0336	---	.004	.0484	---	
SELENIUM, TCLP LEACHATE (mg/l)	.0081	---	.0061	.0055	---	
SILVER, TCLP LEACHATE (mg/l)	ND	---	ND	ND	---	
<b>TCLP PESTICIDES</b>						
	All Non-Detect	---	All Non-Detect	---	---	
<b>TCLP SEMIVOLATILES</b>						
	All Non-Detect	---	All Non-Detect	---	---	
<b>TCLP VOLATILES</b>						
	All Non-Detect	---	All Non-Detect	---	---	
<b>INORGANICS</b>						
CORROSIVITY BY PH (ph)	7.6	7.7	8.0	7.6	8.2	
IGNITABILITY (deg f)	150 >	150 >	150 >	150 >	150 >	
PAINT FILTER LIQUIDS (ml)	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	
PERCENT SOLIDS (%)	79.3	77.1	84.7	78.0	88.0	

Notes:

Only detected constituents are summarized

J - Indicates an estimated value

ND - not detected

**Table 12a - Additonal In-situ Riverbank Characterization Sampling Analytical Results  
May 2004 Monthly Report  
GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

**(Results are presented in part per million, ppm)**

<b>Field Sample ID</b>	H2-OT000122-0-4Y25	H2-OT000123-0-4Y25	H2-OT000124-0-4Y25	H2-OT000125-0-4Y25
<b>Sample type</b>	insitu characterization sampling	insitu characterization sampling	insitu characterization sampling	insitu characterization sampling (1)
<b>Date Collected</b>	5/25/2004	5/25/2004	5/25/2004	5/25/2004
<b>Analyte</b>				
<b>PCBS</b>				
AROCLOR-1254	<b>2.6</b>	<b>11</b>	<b>0.56</b>	<b>17</b>
AROCLOR-1260	<b>14</b>	<b>18</b>	<b>3.1</b>	<b>31</b>
PCB, TOTAL	<b>17</b>	<b>29</b>	<b>3.7</b>	<b>48</b>

Notes:

(1) Area represented by this sample is classified as TSCA material. Material to be transported to GE's Building 71 OPCA.

Only detected constituents are summarized

J - Indicates an estimated value

ND - not detected

**Table 12a - Additonal In-situ Riverbank Characterization Sampling Analytical Results  
May 2004 Monthly Report  
GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

**(Results are presented in part per million, ppm)**

<b>Field Sample ID</b>	H2-OT000126-0-4Y26	H2-OT000127-0-4Y26	H2-OT000128-0-4Y26	H2-OT000129-0-4Y26
<b>Sample type</b>	insitu characterization sampling	insitu characterization sampling	insitu characterization sampling	insitu characterization sampling
<b>Date Collected</b>	5/26/2004	5/26/2004	5/26/2004	5/26/2004
<b>Analyte</b>				
<b>PCBS</b>				
AROCLOR-1254	<b>5.6</b>	ND	<b>3.2</b>	<b>0.3</b>
AROCLOR-1260	<b>18</b>	<b>15</b>	<b>12</b>	<b>0.55</b>
PCB, TOTAL	<b>24</b>	<b>15</b>	<b>15</b>	<b>0.85</b>

Notes:

Only detected constituents are summarized

J - Indicates an estimated value

ND - not detected

**Table 12a - Additonal In-situ Riverbank Characterization Sampling Analytical Results  
May 2004 Monthly Report  
GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

**(Results are presented in part per million, ppm)**

<b>Field Sample ID</b>	H2-OT000130-0-4Y26	H2-OT000131-0-4Y26	H2-OT000132-0-4Y26	H2-OT000133-0-4Y26
<b>Sample type</b>	insitu characterization sampling	insitu characterization sampling	insitu characterization sampling (1)	insitu characterization sampling (1)
<b>Date Collected</b>	5/26/2004	5/26/2004	5/26/2004	5/26/2004
<b>Analyte</b>				
<b>PCBS</b>				
AROCLOR-1254	<b>1.2</b>	<b>0.17</b>	<b>4.4</b>	<b>34</b>
AROCLOR-1260	<b>8.4</b>	<b>0.39</b>	<b>47</b>	<b>92</b>
PCB, TOTAL	<b>9.6</b>	<b>0.56</b>	<b>51</b>	<b>130</b>

Notes:

(1) Area represented by this sample is classified as TSCA material. Material to be transported to GE's Building 71 OPCA.

Only detected constituents are summarized

J - Indicates an estimated value

ND - not detected



**Photograph 1 – Backfilling Activities in Cell 15E, Placement of Topsoil and the Biodegradable Erosion Control Blankets**



**Photograph 2 – Riverbank Backfill Activities in Cells 14E and 14W, Placement of Topsoil onto the ACB and above the ACB**



**Photograph 3 – Overview of the Restored Cells 14 and 15**



**Photograph 4 – Tree and Shrub Planting Activities in Cell 14E**



**Photograph 5 – Newly Installed 54-inch HDPE Pipe Gravity System Extension in Phase II**



**Photograph 6 – Construction of the Load out Area in Cell 16E, Truck Loading on High Street**

