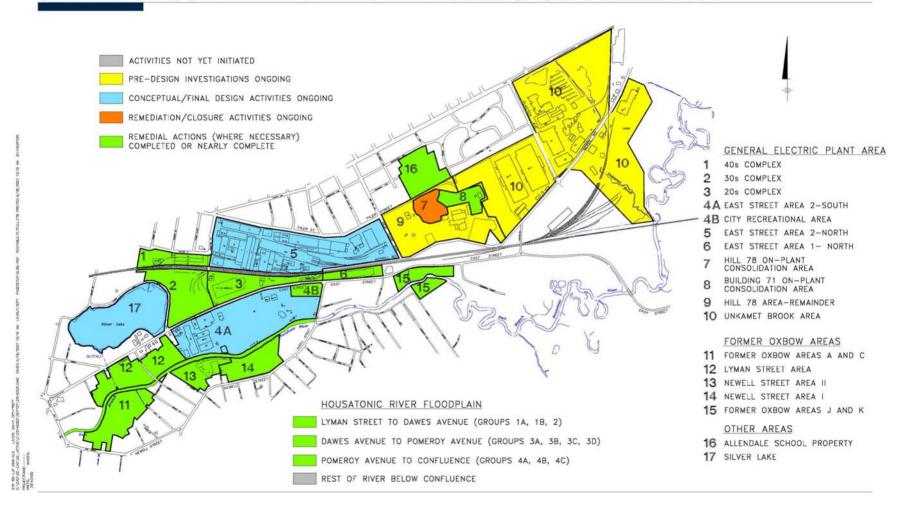
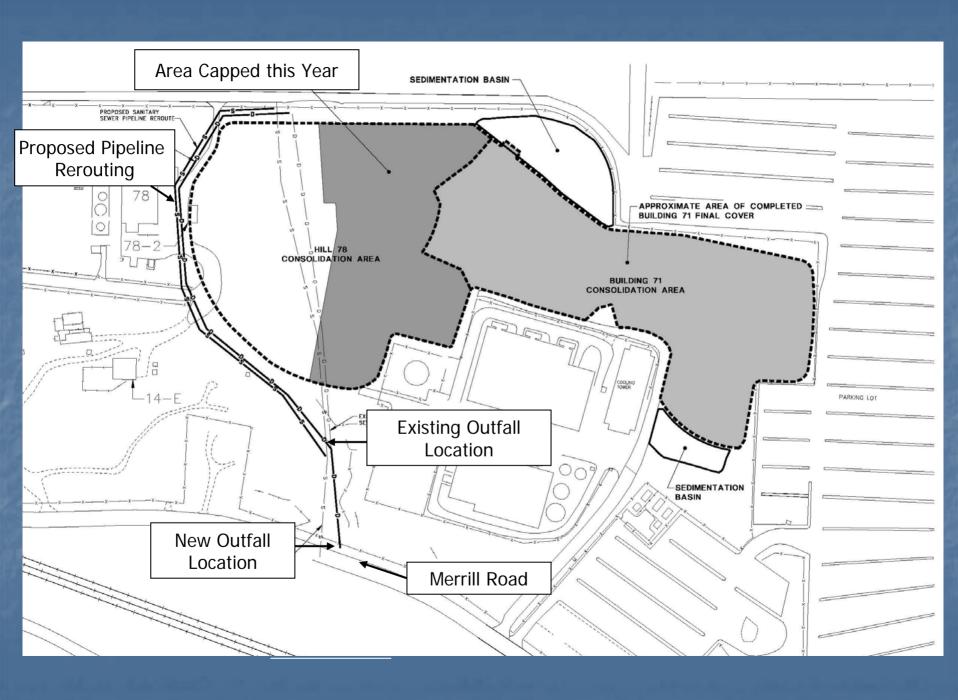
Citizens Coordinating Council Meeting

September 19, 2007

STATUS OF SOIL-RELATED REMOVAL ACTIONS: SEPTEMBER 2007





Post-Remediation Sediment Sampling

- ½-Mile Reach
 - 39 Surficial (0-6") Sediment Samples
 - 12 Subsurface (>6" to riprap) Sediment Samples
- 1 ½-Mile Reach
 - 97 Surficial (0-6") Sediment Samples

Average Pre-Remediation (pre-1999) Sediment PCB Concentrations 1/2-Mile Reach

- **0** 6 inch depth: 112 ppm
- 0 12 inch depth: 85 ppm
- 1 2 foot depth: 60 ppm

Post-Remediation Sediment Sampling Results — 1/2-Mile Reach

- 0-6 inches
 - Average Concentration: 0.24 ppm
 - Maximum Concentration: 2.0 ppm
- > 6 inches
 - Average Concentration: 1.8 ppm
 - Maximum Concentration: 11 ppm
- Average: 0.60 ppm

Percent Reduction in PCB Concentrations 1/2-Mile Reach

- 99.8% in 0 to 6 inch depth interval
- 99.3% in 0 to 12 inch depth interval

Average Pre-Remediation (pre-1999) Sediment PCB Concentrations 1 1/2-Mile Reach

- 0 6 inch depth: 11 ppm
- 0 12 inch depth: 21 ppm
- 1 2 foot depth: 60 ppm

Post-Remediation Sediment Sampling Results 1 1/2-Mile Reach

- 95 of 97 Samples < 1 ppm
- Average Concentration: 0.17 ppm
- Maximum Concentration: 1.9 ppm

Percent Reduction in PCB Concentrations 1 1/2-Mile Reach

- 98.5% in 0 to 6 inch depth interval
- 99.2% in 0 to 12 inch depth interval

Summary Upper Two Miles

- > 99% reduction in PCBs in surficial (0-6") sediment
- Average post-remediation surficial (0-6" depth) PCB concentration: 0.19 ppm

2007 1½-Mile Reach Benthic Invertebrate & Fish Surveys

Dick McGrath SHD, Inc.

Benthic Community Characteristics and Value

- Benthic Invertebrates small animals (e.g. insect larvae, worms, snails) that live in (infauna) or on (epifauna) the bottom
- Largely not mobile community structure and tissue concentrations reflects effects of contaminants in the sediment and sediment type
- Community characteristics: abundance, richness, presence of pollution-intolerant taxa (EPT taxa)
- Food source for fish and other higher-level organisms – foodchain transfer of contaminants



2000/2007 11/2-Mile Sampling

- Benthic invertebrate samples collected at three transects in 2000 and 2007
 - T-70 just below Lyman St.
 - T-134 just above Dawes Ave.
 - T-170 between Dawes/Pomeroy
- 12 replicate 1m² samples collected using kick net
- Organisms collected for tissue analysis



Results: Pre-Remediation Sampling (2000)

- Benthic communities at T-70 and T-170 clearly stressed (low diversity, low numbers of EPT taxa)
- Community at T-134 less stressed, with higher numbers of EPT taxa
- Tissue PCB concentration at T-134 = 485.3 mg/kg and 187.7 mg/kg (two replicate samples)
- Insufficient benthic biomass at T-70 and T-170 to collect sample for tissue analysis



Results: Post-Remediation Sampling (2007)

- Large decrease in average sediment PCB concentrations:
 - T-70 13.4 mg/kg to 0.24 mg/kg tPCB (>98% decrease)
 - T-134 93.2 mg/kg to 0.07 mg/kg tPCB (>99.9% decrease)
 - T-170 6.6 mg/kg to 0.09 mg/kg tPCB (>98% decrease
- Average tPCB in tissues at T-134 decreased from 336.5 mg/kg to 1.62 mg/kg (99.5% decrease)
- Tissue tPCB concentrations at T-70 (1.05 mg/kg) and T-170 (0.71 mg/kg) also very low



Results: Post-Remediation Sampling (cont.)

- Benthic community samples currently being analyzed
- Preliminary results at T-70 indicate:
 - Increased diversity of taxa
 - Increased numbers of EPT taxa
 - Increased abundance of organisms
 - Increased biomass

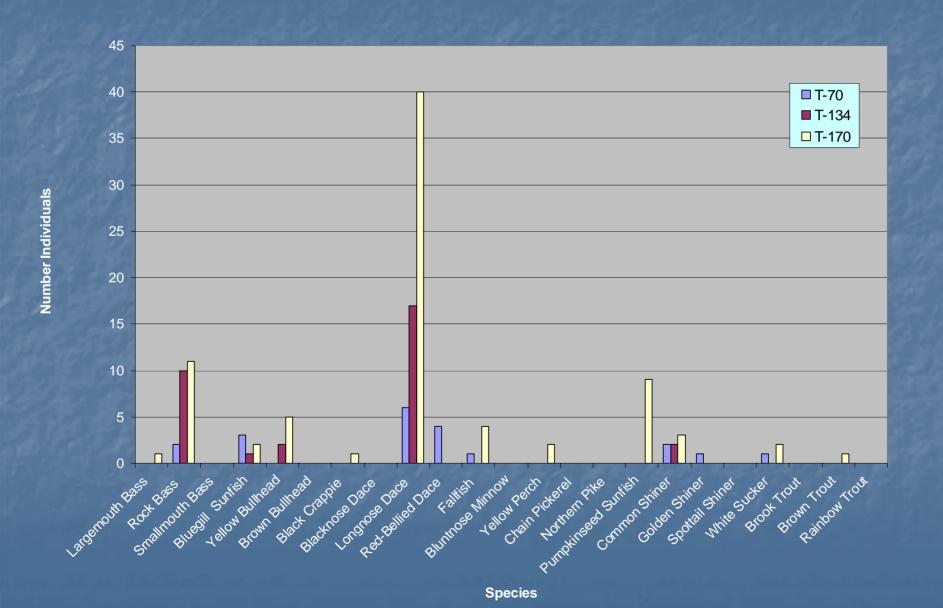


June 2007 11/2-Mile Reach Fish Survey

- Three 600-ft sections of 1½-Mile Reach surveyed
 - Transects T-70, T-134, T-170
 - Same transects sampled for benthic invertebrates
- Standard backpack electrofishing method
- Particular attention given to banks and structure, especially engineered "fish rocks"
- All fish identified, measured, and returned to river unharmed



2007 Fish Survey – Count by Species



2007 Fish Survey - Observations

- 14 fish species (of 23 species recorded from river) present at these three transects
- Habitat not suitable for all species (e.g., northern pike, rainbow trout)
- T-170 had most diverse habitat and most abundant/diverse fish community
- Remnant of old dam may limit fish passage at low water
- Habitat diversity at T-70 limits fish community at this location
- Most fish collected were adults, based on known length/age relationships
- Most larger fish collected at and around engineered fish structure

Summary

- Sediment PCB concentrations reduced by approximately 99%
- Ecosystem recovery reflects reduction in PCB concentrations
 - Benthic community with higher diversity, increased abundance, and increased presence of pollutionintolerant taxa (EPT taxa)
 - >99% reduction in PCB tissue concentrations
 - Diverse and abundant fish community now found in 1½-Mile Reach

EPA Community Outreach Rest of River

CCC Meeting September 19, 2007

Purpose of Outreach

- Communicate the Rest of River Corrective Measures Study (CMS) and EPA decision-making process to citizens in affected cities and towns (e.g. Pittsfield, Lenox, Lee, Great Barrington, Connecticut)
- Provide an opportunity for the public to interact with EPA and exchange information regarding the CMS

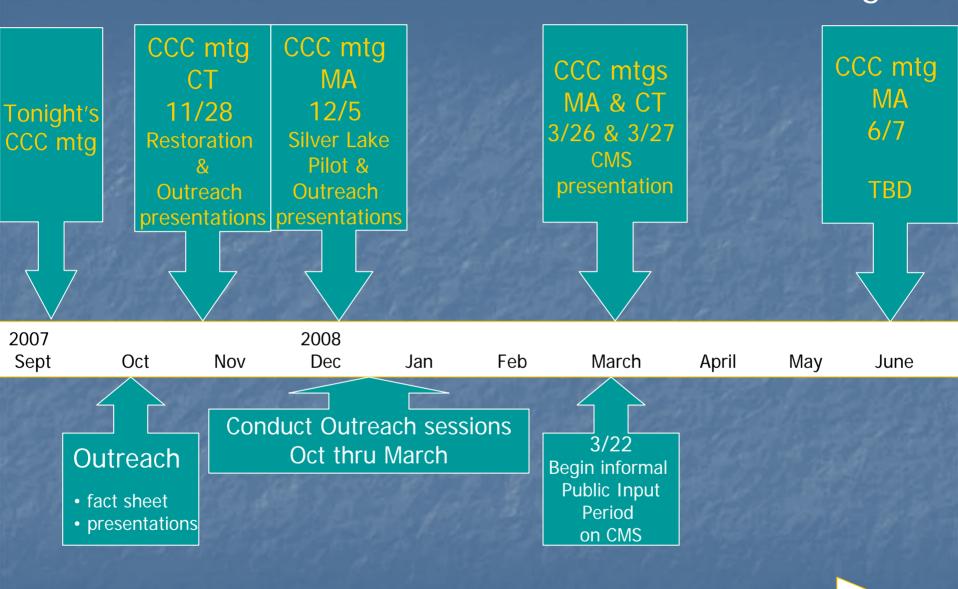
Outreach Materials

- A presentation of the CMS structure and decision-making process, including:
 - Outline of CMS
 - EPA decision-making process (including the evaluation criteria)
 - Opportunities for Public Comment
- Fact sheet about the CMS and decisionmaking process for general distribution

Outreach Logistics

- EPA will contact town officials, community organizations, and interest groups to schedule meetings
- Meetings will be advertised to the general public via press releases and e-mail distribution

2007-2008 Rest of River Outreach Plan/CCC mtgs



- GE/EPA continue work on remaining cleanup actions Outside the River
- Public participation continues

