

Site: Centredale
Area: 13.1
Date: 2/1/05



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I
1 CONGRESS STREET, BOSTON, MA 02114**

**Management Action Committee (MAC) Meeting
February 1, 2005
Centredale Manor Restoration Project
North Providence, Rhode Island**

Attendees:

- Anna Krasko, United States Environmental Protection Agency
- Angela Bonarrigo, United States Environmental Protection Agency
- Lou Maccarone, Rhode Island Department of Environmental Management
- Bob Vanderslice, Rhode Island Department of Health
- Eugenia Marks, Audubon Society of Rhode Island
- Jane Sherman, President-Woonasquatucket River Watershed Council
- Michael Merrill, Natural Resources Conservation Service
- Tim Mooney, Senator Chaffee's Office
- Eric Fallon, Senator Chaffee's Office
- David Scotti, Loureiro Engineering Associates, Inc.

Agenda

- Technical Update
- Community Outreach
- Other Items

Note: Angela Bonarrigo, USEPA, chaired the meeting. The prior meeting was held on December 7, 2004. No MAC meeting was held in January 2005.

Technical Update

Anna Krasko provided an update regarding the status of the site relative to the RI/FS process. The Draft Baseline Human Health Risk Assessment (BHHRA) report and the Draft Ecological Risk



Assessment (BERA) report have been issued. At this time it is expected that the RI report will be issued within approximately two months (April 2005). The RI report will include the data and information obtained from additional investigative activities recently completed at the site. This summer, Preliminary Remediation Goals (PRGs) will be developed for different areas of the site based on the potential exposure to site risks. The risk-based PRGs and supporting information will be synthesized in establishing a single clean-up level for each contaminant per river reach/pond at the site.

Anna also provided a technical update on additional investigation efforts conducted to further assess: (i) impacts to the oxbow area immediately north of Lyman Mill Pond; and (ii) potential impacts of the upstream reservoir releases on bed stability in Allendale Pond and Lyman Mill Pond. The oxbow area is situated in an area that has been considered for purchase by the Town of Johnston for conservation purposes. The data obtained from the additional investigation conducted in this area include dioxin concentrations greater than one part per billion (1 ppb) in the area of the oxbow (old river bed). Dioxin concentrations in sediment in the oxbow (old river bed) were reported to be up to approximately 4 ppb. Dioxins having the characteristic 2,3,7,8-TCDD site signature were not found to be present at a location further upstream of the old river bed. These findings are consistent with the findings obtained during previous investigations of this area of the site. Anna noted that background concentrations of dioxin in New England urban rivers range from approximately 40 to 60 parts per trillion (ppt), and that the concentrations of dioxin in soils collected from the ball field adjacent to the river and thought not to be impacted by site contamination were approximately 5 – 10 ppt (soils).

Potential impacts of the upstream reservoir releases on bed stability in Allendale and Lyman Mill Ponds were investigated using a computer model that was previously developed and applied to the site. Low-level flows of 100 cubic feet per second (cfs) and 200 cfs were modeled. Based on the modeling results, no notable erosion occurs with flows of 100 cfs. Minimal erosion, with scour depths estimated to be less than one centimeter, occurs with flows of 200 cfs. It was noted that based on the USGS record, the conditions that result from the release of water from the upstream reservoirs is similar to the conditions that result from precipitation events (e.g., there is no “slug” of water that flows into Allendale Pond when water is released from upstream reservoirs).

David Scotti provided a status report on the Time-Critical and the Non-Time Critical Removal Actions. As part of the activities conducted under the Time-Critical Removal Action in the area of the former tailrace behind Centredale Manor, it was noted that the Post-Removal Site Control Plan (PRSCP) is currently being revised to address comments from EPA. Once revised, the PRSCP will be used to implement a monitoring program to monitor the post-construction conditions of the cap and swale. This will complete all activities associated with the Removal Actions.

Outreach

Angela Bonarrigo provided copies of the EPA Fact Sheets for the Draft BHHRA and the Draft BERA. An effort is being made by EPA to post the Fact Sheets on the EPA (Centredale Manor) website. Angela also provided an update on the efforts of Marian Cox (EPA Facilitator). At this time, Marian is contacting stakeholders to discuss their interests and concerns regarding the site. It

is expected that Marian will provide a report that summarizes her findings and provides recommendations to EPA within several weeks.

Other Items

Michael Merrill provided an overview of the work being performed in coordination with the Natural Resources Conservation Service at the five reaches downstream of Lyman Mill Dam. This work involves sediment probing to map the volume and type of sediments behind dam structures as part of a larger effort to design structures to allow fish passage along the Woonasquatucket River.

The next MAC meeting is tentatively scheduled for Tuesday, March 1, 2005.