

Muddy River Flood Damage Reduction Project
Phase 2 Construction Activities Next 90 Days
February 2021

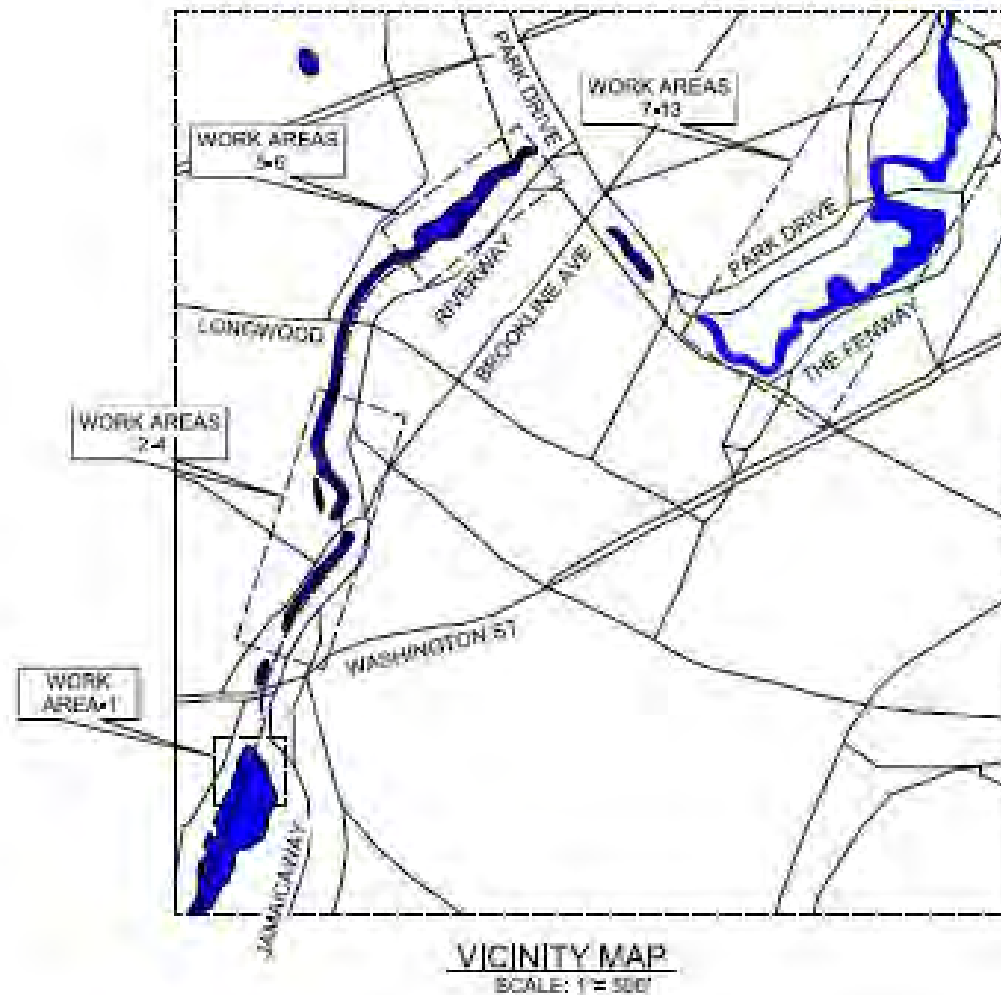
General: The Muddy River Flood Damage Reduction Phase 2 Construction Project is located in the footprint generally between Leverett Pond to Boylston Street in Boston and Brookline. The major project components involve dredging 1 to 8' of sediment for flow conveyance in the Back Bay Fens and Riverway sections of the Muddy River. It also includes excavation of the sandbar and island at Leverett Pond. Work also includes the removal of *phragmites* from the wetland and riparian areas which affect flow conveyance. After removal of river sediments and *phragmites*, preservation and restoration of the historic park shoreline in construction areas will consist of planting emergent wetland plants and restoring riparian vegetation in upland areas by planting trees and shrubs. This Notice is intended to identify the general construction activities that will be performed in the next 90 days. A figure that shows a typical flood control channel and the proposed improvements is at the end of this report.

February 2021 through April 2021 Period:

- Since the award of the construction contract and issuance of the Notice to Proceed almost a year ago, the contractor has been actively dredging the sediment from the river and properly disposing of the material at disposal facilities. Utilization of two crews working in different work areas has maximized productivity of dredged sediments.
- Dredging of the Muddy River is divided into 12 work areas as shown in the Vicinity Map, with 6 work areas upstream of Riverway and 6 work areas downstream of Avenue Louis Pasteur. Currently, the contractor is working in Work Area #2 and Work Area #8.
- **Work Area #2** – section of river at Brookline Avenue and Riverway – near Beth Israel Deaconess Hospital – the contractor has about 400cy of material remaining to dredge. It is expected dredging will be complete in early February. Once the dredging is complete, the dredge crew will mobilize to Work Area #3 – section of river at Brookline Avenue, Riverway, and Netherlands Road – near Beth Israel Deaconess Hospital – to begin dredging in that location. Planting and restoration of Work Area #2 will begin in April to coincide with the planting window. Maintenance of the planting will begin immediately during the two-year plant guarantee period.
- **Work Area #3** – section of river at Brookline Avenue, Riverway, and Netherlands Road – near Beth Israel Deaconess Hospital – the contractor began site preparation with the installation of temporary construction fencing this week. Existing vegetation protection and sheetpile installation for water diversion will immediately follow fence installation in anticipation of dredging to start mid-February. Current schedule shows dredging to be complete late February with the expected dredge quantity.
- **Work Area #4** – As the dredging activities progresses in the upstream stretches, it is expected temporary construction fencing will begin to go up in Work Area #4 mid-February in anticipation of dredging start in early March.
- **Work Area #1** – Leverett Pond – Additional sampling has been completed and resultant test results are being reviewed. A revised dredge footprint has been engineered to address the recent information received. The expectation is to return to Work Area #1 after dredging is complete in Work Area #4 in mid-March.
- **Work Area #7** – section of river immediately downstream of Avenue Louis Pasteur – the contractor completed dredging at the end of December. Surveying was done in early January to confirm new flood risk management cross sections. Planting and restoration of Work Area #7 will begin in April to coincide with the planting window. Maintenance of the planting will begin immediately during the two-year plant guarantee period.
- **Work Area #8** – section of river immediately downstream of Work Area #7 – the contractor began dredging this section in early January and likely be complete with dredging before the end of February. Dredged sediment production has increased to about 150 cubic yards per day which allows for steady sediment processing and management; and a routine hauling of processed sediment to the final disposal location.

Planting and restoration of Work Area #8 will begin in April to coincide with the planting window. Maintenance of the planting will begin immediately during the two-year plant guarantee period.

- **Work Area #9** – section of river immediately downstream of Work Area #8 – will begin immediately after Work Area #8 – likely running from late-February and continuing into late-April.
- **Work Areas #11 and #12** – Victory Gardens Area – Temporary construction fence installation at the Victory Gardens began mid-January to allow for the construction of processing bins of the Central Processing Facility on the left bank of Work Area #11, to supplement the already constructed bins on the right bank near the Duck House. This was required due to the increase of daily dredged material production, necessitating additional bins to store the dredged sediment while it is dewatered and stabilized before the processed sediment is loaded and transported to the final disposal facility.
- At the end of this notice we have included some pictures that show the construction progress at Work Area #2, the completed Work Area #7 and the work at Work Area #11. We thought folks would be interested in seeing the work occurring behind the fence.
- If you any questions, require additional information or would like to be added to the Project Contact List, please email the project mailbox at MuddyRiver@usace.army.mil



EXTENTS OF PROJECT WORK AREA FOR PHASE 2 CONSTRUCTION



Amphibious Excavator at Work Area #2 – dredging river sediment.



Temporary access road on the right bank (looking downstream) of the river – for off-road truck access to transport dredged sediments.



Amphibious excavator depositing dredged sediment into the off-road truck – Work Area #2.



Off-road truck depositing dredged sediment into temporary stockpile bin at Work Area #2. Dredged sediment is temporarily staged in this location for stabilization prior to transporting sediment to the Central Processing Facility.



Work Area #7 (looking upstream to Avenue Louis Pasteur) – Dredging completed – sediment dredged from the river and temporary access road removed. Restoration and planting will begin on the banks in early April.



Work Area #11 – at the Victory Gardens – stone dust pathway installed for pedestrian access along the gardens; temporary construction fencing and root protection being installed.



Work Area #11 – at the Victory Gardens – stone dust pathway installed for pedestrian access along the gardens; and gravel access road for construction vehicles. Temporary construction fencing will follow.



Work Area #11 – at Victory Gardens – looking across the river at the Central Processing Facility at the Duck House.