

Cambridge Watershed Site Monitoring Program Semiannual Report June, 2013

Introduction

The Cambridge Watershed Site Monitoring Program Semiannual Report is a summary of the monitoring, outreach, and planning efforts of the Cambridge Water Department's Watershed Management Division. Through the Site Monitoring Program, CWD identifies possible sources of contamination in the water supply and seeks to mitigate their impacts through the implementation of proper Best Management Practices (BMPs), and to identify opportunities to realize improvements to watershed water quality. This report contains the following information on 28 sites of interest monitored during the winter/spring period: a list of the sites, their status to date, and a map showing watershed location.

Highlights of this Period

- 1. *MassDOT* is finishing construction this summer on PFN 604710-10, a federally aided \$22.2 million project to *resurface I-95* (Route 128) within the northern and southern Waltham City boundaries. As part of this project, 8 new water quality basins were constructed and significant improvements were made to an existing basin. The ~\$750,000 Route 20 rotary basin at DOT stormwater outfall "WA-17" is designed to treat the first flush of rainfall which should significantly improve water quality in this stormwater-impacted area. DOT contractors are currently working on final paving and signage. In this reporting period, CWD has conducted two formal inspections and has plans to monitor basins in wet weather with DOT before the project is closed.
- 2. 1265 Main Street (Former Polaroid Site) As part of the Watershed Division's outreach and education program, CWD and representatives from 1265 Main Street LLC. led a well-attended tour of the Polaroid redevelopment site in Waltham. Approximately 45 Cambridge and Waltham residents learned about how this 120 acre parcel of privately-owned watershed land is being engineered for water quality and water supply security improvements. Construction contractors continue to prepare the site for new building pads. Major project milestones include relocating power lines, utility installation (including stormwater management systems), and securing tenants. Drainage work for the Route 20 rotary improvements has been completed.

Lexington:

- 3. Route 2 Bridge Reconstruction Project Still in the environmental permitting phases, this project triggers MEPA Section 61 Findings outlining MassDOT's responsibilities to construct stormwater and spill-containment basins throughout the watershed. After many meetings and discussions with CWD, DOT's current proposal includes the construction of 3 subsurface gravel wetlands, a pocket wetland, and vegetated swales designed to improve water quality draining to the City's water supply. DOT hopes to package this project with Route 128 Lexington resurfacing to consolidate contractors. Kleinfelder is helping CWD with the technical review.
- 4. Route 128 Resurfacing Project Moving north from the Waltham town line, MassDOT is proposing to continue improving the Route 128 corridor in Lexington, mimicking the Weston, Waltham designs. The current proposal includes expansions and retrofits to existing stormwater/spill containment basins constructed in 2004 to better meet today's MassDEP stormwater treatment and basin performance standards. Lexington Conservation Commission is holding public hearings June 18, 2013 for compliance with the Wetlands Protection Act (WPA) and State Stormwater Standards.
- 5. **97 Hayden Ave** –MEPA and WPA permitting is in place, but the project has not yet begun. New construction will trigger upgrades to the existing stormwater management system including peak flow attenuation and water quality improvements through a mix of green and grey infrastructure.
- 6. **Lexington Rest Stop** URS continues monthly site inspections to identify potential water quality risks, assign required actions, and document compliance. The site has been striped and signed to decrease truck parking/idling over drainage structures, but is proving ineffective. URS is investigating opportunities to improve the functionality, treatment of the southern detention basin. Basins are anticipated to be cleaned summer, 2013.

Lincoln:

- 7. *Hobbs Brook Farm Cluster Development* New lots have been sold, construction is ongoing. No major issues observed.
- 8. *Crosby's Corner Route 2 Improvements* A small section of this project is within the Hobbs Brook subwatershed. CWD conducted a site visit to Bedford Rd, Lincoln where a new feeder road is being constructed that will allow residents to avoid pulling out directly into Route 2. Erosion controls were in place and functioning. A new subsurface gravel wetland will treat the road's runoff before discharging into Hobbs Brook.

Waltham:

- 9. 385 Winter Street Courtyard Marriot has proposed to redevelop this site by razing two buildings and constructing an addition on another. Final plans include the addition of two tree-box filters, a water quality unit, and an underground detention/treatment system. Runoff from this site ultimately discharges to the MassDOT Winter Street basin before entering the water supply. CWD will be notified before construction.
- 10. Wyman Street Resurfacing In partnership with Hobbs Brook Management, The City of Waltham will conduct a road-resurfacing, sidewalk constructing, stormwater improvement project. Underground water quality units will be installed to treat wetland, intermittent stream stormwater discharges, and sediment forebays will be constructed at other upland outfalls. Hobbs Brook Management has agreed to assume right-of-way stormwater infrastructure maintenance responsibilities from Waltham.
- 11. 110 Bear Hill Road Work has halted to significantly regrade/reshape Bear Hill for future development and relocation of large communication towers. Allen and Major consultants continue erosion control monitoring, but the contractor is no longer working the site or managing the stormwater pollution prevention plan. Allen and Major is developing an interim stabilization plan for implementation until another contractor resumes construction.
- 12. 175 Wyman Street Hewlett Packard/GZA remediation of TCE/PCE groundwater plume is ongoing.
- 13. *Winter Street Resurfacing* The City of Waltham is planning to repave a section of between Sylvan Road and the Lincoln town line, over the Hobbs Brook Dam. CWD and local businesses are investigating ways to incorporate stormwater improvements.
- 14. *Rte. 128 Used Auto Parts and Sales* Recent regrading/reshaping the site has altered runoff patterns so that during heavy rains, the abutting section of 128 experienced flooding. Temporary runoff control measures include the construction of a stone retention basin to capture and recharge stormwater. Since construction, no runoff from the site has been observed. Long term plans include developing survey plans and long term stormwater management solutions.
- 15. **Stony Brook Office Park** Stony Brook Office Park maintains a parking lot abutting a steep slope of the Stony Brook Reservoir. At the request of CWD, facilities managers are working to develop and implement a plan to better control stormwater runoff and define property boundaries.

Weston:

- 16. Weston Golf Club MassDEP Division of Watershed Management has approved the use of chemical herbicides including copper, alum, glyphosate, triclopyr, imazapyr, and flumioxazin to control nuisance aquatic plants in two golf course ponds. Because of CWD concerns over the lack of downstream controls to contain chemically-treated water, WGC only conducted in-lake physical plant removal and spot shoreline spraying this past growing season. The use of approved in-lake herbicides is anticipated summer 2013.
- 17. *Field Elementary School Redevelopment Project* Construction is ongoing. The project will improve stormwater quality leaving the site by infiltrating rooftop runoff and routing some parking lot runoff through 2 proprietary underground water quality units. No major issues have been observed.
- 18. *Hobbs Pond Dam* The Town of Weston will begin work to repair the dam late summer, 2013. CWD is working with engineers and contractors to minimize downstream impacts.
- 19. **Weston Transfer Station Bridge** The Town of Weston has awarded a contract for the bridge's repair. CWD met with Town officials and contractors for a preconstruction meeting 6/13/13. All CWD concerns have been addressed in the planning phases. Construction will begin August, 2013.
- 20. *Sibley Road Mobil Station*, 84 Boston Post Road Groundwater & Environmental Services (GES), Inc. is monitoring levels of MtBE and other groundwater contamination near the Stony Brook. Active, on-site groundwater treatment has ceased, but contaminants are being regularly monitored for rebound and future determinations on continuing or discontinuing active remediation.
- 21. 8 Sibley Road The property owner is repurposing an existing warehouse into a private gun club, shooting range. Based on the site's proximity to the Stony Brook, Reservoir, CWD is requesting that this change of use trigger the owner's development and implementation of a yearly operation and maintenance plan designed to reduce stormwater impacts.

Cambridge:

- 22. *Glacken Slope Stabilization* Phase IV, the continued slope stabilization moving southeast along the slope face is complete. Phase V, the installation of 1,600 feet of pervious asphalt on a pilot section of perimeter road is in the planning process.
- 23. **480 Concord Ave** Fresh Pond Gas continues exploratory groundwater and soil sampling for site characterization under MCP.

- 24. 343 Fresh Pond Parkway Mobile Station #1405 continues to monitor groundwater and soil contamination. No active treatment, only monitored natural attenuation (MNA).
- 25. *Kingsley Park Improvements Project* Implementing this portion of the Fresh Pond Master Plan continues through the design and development stages. CWD has held four meetings to gather public input on the various project aspects. The work will soon enter the permitting phase.
- 26. Water Treatment Facility Construction is expected to begin in August, 2013 to reinforce the weir structure and stabilize the soils over the WTP intake pumps for future fire truck pump tests. Two large trees have already been relocated to Lusitania Meadow in anticipation.

Regional:

- 27. *Hanscom Air Force Base Fiber Optic Network Expansion* will realize minor potential erosion impacts from trenching as new fiber optic routes in Lexington and Lincoln are developed. Erosion controls will be installed around sensitive water resource areas and trench back-filling will occur on a daily basis.
- 28. Wellesley to Lexington Traffic Sign Replacement Project MassDOT has begun implementing signage updates in the 1-95 watershed corridor. DOT has shared sign location plans with CWD for their incorporation into future versions of the Hazmat Emergency Response Atlas.

Completed Projects from Last Reporting Period:

- Trapelo Road and Winter Street Gatehouse Improvements Project
- MassDOT Emergency Culvert Repair, Tracer Lane Waltham
- DeNormandie Land Acquisition
- Winter Street Dam Upstream Slope Repairs
- Northeast Sector Pathway Improvements

Please direct any questions or comments about this report to

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