



## **Cambridge Watershed Site Monitoring Program Semiannual Report June, 2014**

### **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 **23** sites of interest monitored during the summer/fall period: a list of the sites, their status to date, and a map showing watershed location.

### **Highlights of this Period**

1. The Town of Weston is finished with major reconstruction of the ***Hobbs Pond Dam***, failed in the Spring, 2010 flood event. CWD was able to coordinate upstream Cambridge Reservoir dam releases with site contractors to support their work and minimize downstream sediment transport.
2. Preliminary environmental investigation has begun for the ***Route 2 Bridge Reconstruction and Route 128 Resurfacing Projects***. Final design/build plans will be sent to CWD for review and comments before the project breaks ground. This project will construct **5** new stormwater treatment and spill containment basins along Route 2, improve **8** existing basins along Route 128, and create vegetated water quality swales in the Route 2 median.

### **Lexington:**

3. ***Lexington Rest Stop*** – URS continues monthly site inspections to identify potential water quality risks, assign required actions, and document compliance. URS is investigating opportunities to update the Stormwater Pollution Prevention plan, improve staff training, and retrofit the southern detention basin to better manage runoff.

## **Lincoln:**

4. ***Trapelo Road Gatehouse*** – RH White contractors have finished repairs to the interior and exterior of the gatehouse. Stop logs will be installed in the fall, or when reservoir levels have significantly dropped, thus restoring gatehouse functionality.

## **Waltham:**

5. ***10 - 52 Second Avenue*** – CWD met with project proponents and consultants in May to discuss a new parking deck construction project. Surface runoff will be treated by a Stormceptor<sup>®</sup> proprietary water quality unit. CWD stressed the importance of retaining and treating as much stormwater from the site before release during construction.
6. ***Stony Brook Office Park*** – Stony Brook Office Park maintains a parking lot abutting a steep slope of the Stony Brook Reservoir. Work will begin this summer to install Contech<sup>®</sup> water quality units and level spreaders to better protect the reservoir and steep slopes from stormwater runoff.
7. ***385 Winter Street*** – Site redevelopment, construction is ongoing. No erosion issues have been observed. Runoff from this site ultimately discharges to the MassDOT Wyman Street basin before entering the water supply. Once completed, stormwater from this site will be improved by the installation of a subsurface detention system, and two proprietary tree-box filters.
8. ***Wyman Street Resurfacing*** – In partnership with Hobbs Brook Management, The City of Waltham is conducting a road-resurfacing, sidewalk constructing, stormwater improvement project. The road has been repaved, and curb installation is ongoing. Underground water quality units have been installed to treat stormwater discharges to a major wetland, and intermittent stream system feeding the Hobbs Brook Reservoir. Sediment forebays have been constructed at other, upland roadway outfalls. Hobbs Brook Management has agreed to assume right-of-way stormwater infrastructure maintenance responsibilities from Waltham.
9. ***275 Wyman Street Redevelopment*** – Construction of this Hobbs Brook Management property is ongoing, primarily foundation and utility work, and some steel framing. CWD conducted an inspection 6/12/14 and erosion controls were in place and functioning. Once completed, parking lot runoff will be routed to proprietary water quality units, and a retention pond. A portion of clean rooftop runoff will be recharged in underground chambers. From a previous agreement between proponents, CWD, and the Waltham Conservation Commission, this project triggers the assessment of, and restoration plan development for the downstream 404 Wyman Street wetland complex.

10. **99 Third Avenue** – With the understanding that the property falls within a water supply watershed, VHB consultants proposed a project that meets Massachusetts Stormwater Standards. This to be constructed mixed-use retail site will recharge rooftop runoff and treat parking lot stormwater through proprietary separators. Proponents agreed to file associated O&M documents with the deed to ensure proper long term maintenance of the new stormwater management system.
11. **MassDOT** is 99% complete with their Waltham **Route 128 Resurfacing Project**. CWD was recently informed that “as-built” plans were not included in the final contract. MassDOT will shoot elevations of the rotary basin and start increasing the primary diversion manhole weir elevation to encourage more stormwater into the treatment basin.
12. **Winter Street Resurfacing** – As of June 9, 2014 road resurfacing is completed. Striping, some curbing and other finishing work is ongoing. CWD met with Waltham DPW who will address minor erosion issues on the downstream dam slope from roadway runoff.
13. **1265 Main Street (Former Polaroid Site)** – Construction continues at full speed with weekly SWPPP inspections conducted by RJO’Connell & Associates. CWD last inspected the site on April 22, 2014 and no major issues were observed. Progress can be followed here <http://1265main.wordpress.com/>.
14. **Reservoir Woods Redevelopment** – Davis Marcus Partners is in the permitting phases to redevelop a portion of the Reservoir Woods Campus at 830 Winter Street. Initial phases include the replacement of a culvert connecting the site to the Hobbs Brook Reservoir, which was completed December, 2013. The redevelopment project will meet State stormwater standards by including a suite of proprietary separators, a wet pond, and underground recharge chambers.
15. **175 Wyman Street** – Hewlett Packard/GZA remediation of TCE/PCE groundwater plume is ongoing. Latest surface water sampling results in the Hobbs Brook Reservoir indicate no, if any migration of major, known contaminants.

## **Weston:**

16. **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. Recent amendments to the project include the minor reshaping, expansion of feeder roads to improve traffic.

17. ***Sibley Road Reconstruction*** – The Town of Weston is planning to reconstruct Sibley road summer, 2014. The Town will include a new catch basin, a proprietary water quality unit and a level spreader to improve drainage while protecting the abutting Cambridge property from erosion and the Stony Brook from sedimentation.
18. ***Sibley Road Mobil Station***, 84 Boston Post Road – Groundwater & Environmental Services (GES), Inc. is monitoring levels of MTBE and other petroleum-associated 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. Latest groundwater results show no evidence of increasing concentrations, so the treatment system remains off. Surface water sampling in the abutting Stony Brook shows trace, if any measurable concentrations of known site contaminants.
19. ***44 School Street*** –The Weston Conservation Commission issued a permit for a proposed parking lot expansion at the Brooks School Apartments. Additional impervious surface will be mitigated by pre-treating and recharging the majority of runoff, and directing existing runoff to a vegetated swale before discharging into a wetland, water supply tributary.

#### **Cambridge:**

20. ***480 Concord Ave*** – Fresh Pond Gas continues exploratory groundwater and soil sampling for site characterization under MCP. Groundwater sampling indicates that gasoline contaminants are known, in relatively low concentrations and not migrating.
21. ***343 Fresh Pond Parkway*** – Mobile Station #1405 continues to monitor groundwater and soil contamination. No active treatment, only monitored natural attenuation (MNA).
22. ***Kingsley Park Improvements Project*** – Construction is ongoing. No erosion or sedimentation issues have been observed by either CWD, or the Cambridge Conservation Commission.

#### **Regional:**

23. ***Wellesley to Lexington Traffic Sign Replacement Project*** – MassDOT continues implementing signage updates in the 1-95 corridor. DOT has shared sign location plans with CWD for their incorporation into future versions of the Hazmat Emergency Response Atlas.

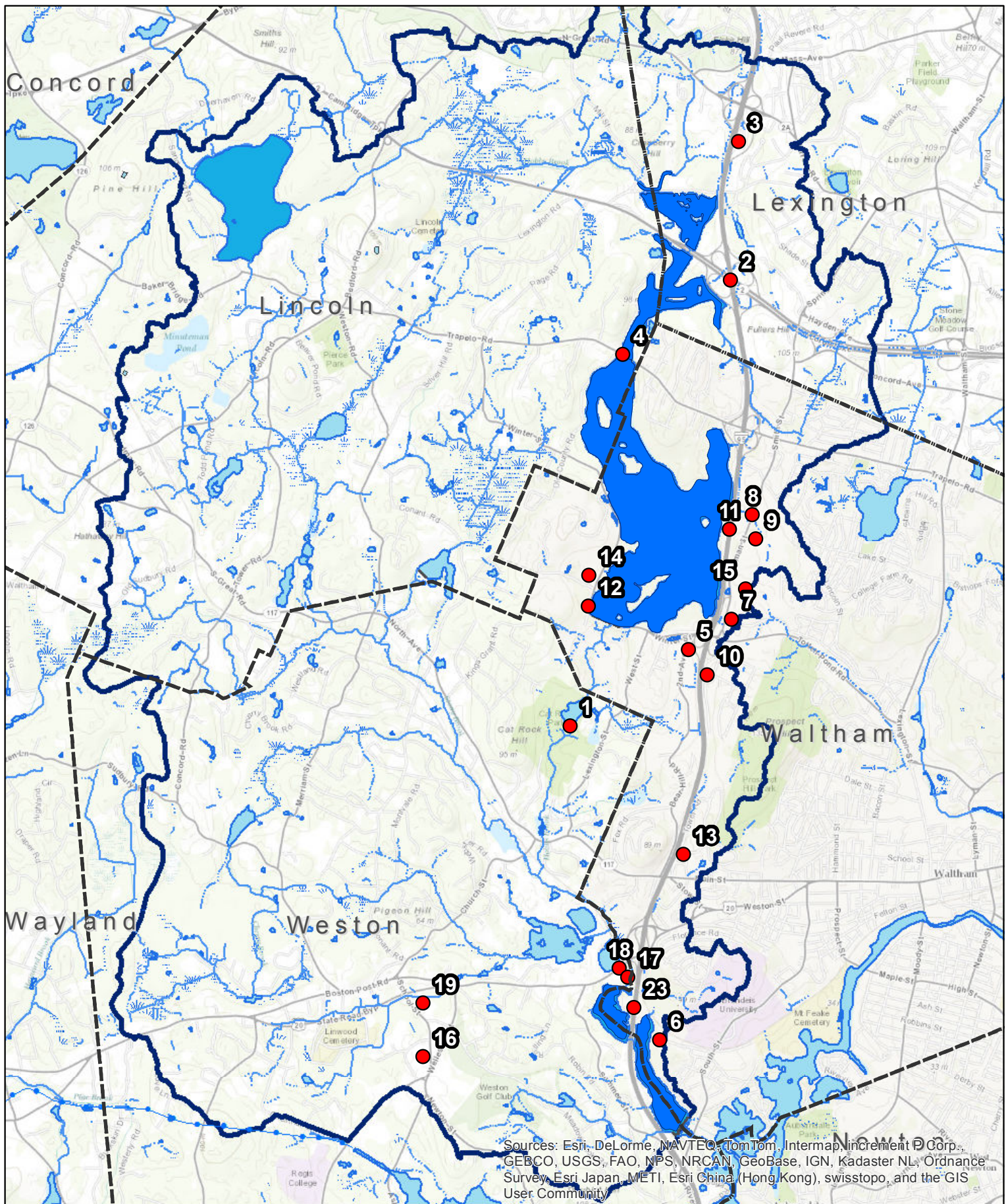
## **Completed Projects from Last Reporting Period:**

- Winter Street Dam Spillway Reconstruction
- Hobbs Pond Dam
- Water Treatment Facility water main replacement

Please direct any questions or comments about this report to

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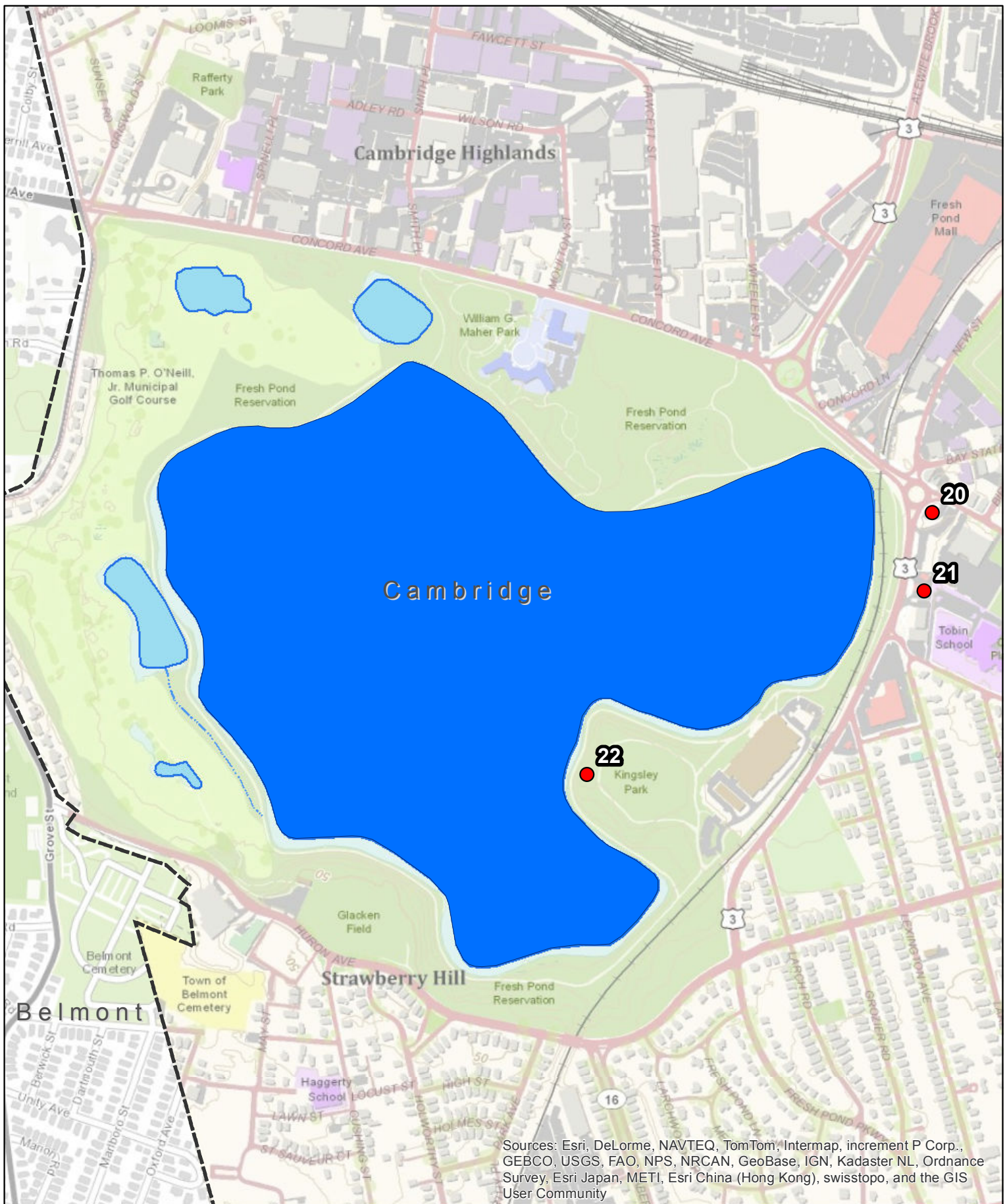
#### Legend

- Reported Sites, June 2014
- Reservoirs
- Watershed Divide

Cambridge Water Department  
Site Monitoring Report  
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0 250 500 750 1,000 Feet

#### Legend

- Reported Sites, June 2014
- Reservoirs

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