

WATER BOARD MEETING AGENDA

Wednesday, September 10, 2014

5:00 – 6:30 pm

A. MINUTES OF JUNE 18, 2014 MEETING

B. MANAGING DIRECTORS REPORT

- Kingsley Park Project Update/Tour
- Discussion of Board Dates and Topics
- Review of Rules of the Reservation
 - More Restrictions (i.e. drone)

C. OPERATIONS

- Transmission and Distribution
- Winter Street Dam Spillway Repairs; Kingsley Park Restoration Project; ~75% completed. Route 2 Bridge Replacement/128 Lexington Resurfacing and Drainage Improvements; Upper Hobbs Brook Reservoir Water Quality Improvements Project; Municipal Stormwater Assessment; Bacon Street Redevelopment, Watertown; Sibley Road, Weston; Former Polaroid Facility, 1265 Main Street-Waltham; 275 Wyman Street; New Construction Projects; Site Plan Review
- Water Operations
 - WTP Operational Status
 - Water Quality
- Engineering & Program Development
 - GIS
- Business
 - June through August 2014 Cross Connection Program Results
 - Billed Water Consumption FY14. FY15 consumption through August
 - Water Fund Balance as of 6-30-2013
- Water Conservation/Water use
 - Drought Management

D. ACTION ITEMS

- Bike path, Watertown
- Sibley Road, Weston

E. MISCELLANEOUS CORRESPONDENCE and ITEMS OF INTEREST

- None

F. NEW BUSINESS

- None

G. NEXT MEETING DATES/AGENDA

- October 15, 2014 – TBA/Watershed Tour
- November 12, 2014 – TBA/Distribution System Update/Lab Tour
- December 10, 2014 – TBA/Energy Update/Election of the President

CAMBRIDGE WATER BOARD

MEETING MINUTES

June 18, 2014

This meeting was called to order at 5:00 p.m. at 250 Fresh Pond Parkway, in Cambridge, Massachusetts. Those in attendance were:

Cambridge Water Board (CWB): James Tanner, Richard Johnson and Ann Roosevelt

Cambridge Water Department (CWD): Sam Corda, Tim MacDonald and Linda Vierboom

A. MINUTES OF MAY 14, 2014 MEETING

Mr. Tanner moved and Ms. Roosevelt seconded the motion to approve the May 14, 2014 minutes as written. The vote was unanimous in favor of the motion.

B. MANAGING DIRECTOR'S REPORT

Before the director's report, the following items were discussed:

Water Board Meeting Day: There was a brief discussion as to whether the board would like to continue to hold to the Wednesday meeting dates. The board would like to discuss this topic at the September meeting.

Consumer Confidence Report: The Annual Drinking Water Reports were sent to all Cambridge residents on June 1st. A PDF is available online. Ms. Roosevelt would prefer a different, more readable font.

Solar Plans: At this time, plans and specs are being worked on. Structural analysis showed that one side of the building (over the process area) and the vehicle storage area will support solar panels. An "Energy Dashboard" for monitoring all of the PV Solar within the City is being investigated. An energy use ordinance disclosure is being worked on by the City council. Ms. Roosevelt inquired as to whether the solar panels would feed back into the grid. Mr. MacDonald responded that it would feed back into the plant unless the plant was off line.

Water Demand Downward Trend: Ms Roosevelt referenced the drop in water demand over the last 10 years. Mr. Corda said the trend, although there are annual variations, is down and does not just apply to Cambridge.

Watershed Manager Hiring Status: The job posting will end on July 2nd. Resumes have already started to arrive.

Grant Award from DEP: CWD applied for an energy grant for both the solar and variable frequency drive (VFD) projects and received an award of \$200,000. Additionally, we put together an application for energy rebates from NSTAR which could be up to an additional \$75,000.

Hazardous Materials/Chemical Storage in the Watershed Presentation: Mr. Kaplan's presentation from the previous month's board meeting will be emailed to the Board Members.

Overview of the FY15 Water Department Budget: The FY15 budget has been presented to the City Manager and approved by the City Council. For the fourth year in a row and 5 out of the last 6 years there will be a 0% increase in the water rate. The water department summary and City Managers budget presentation were handed out. In summary, debt service and energy have been budgeted for less; salaries and wages are up as a result of increases in COLAs and fringe benefits for employees and in total the FY15 budget represents a 2.2% decrease from the previous year.

Training: Mr. Johnson indicated he thought the training hours were low. Mr. Corda commented that training hour requirements vary based on the type and level of each license. We pay for the training and if the license is not required in their job description we pay the employee a stipend.

Staffing: In addition to the 55 department positions, there are 4 co-ops students with two each in the engineering and laboratory divisions, and 2 interns in the watershed division. Co-ops are not full time employees and do not receive benefits. The engineering and lab co-ops work 6 month stints and the watershed division hires interns that work for one year terms. Often, interns and co-ops go on to further their education after their term ends by pursuing a masters or PHD degree. Approximately 100 co-ops have gone through the lab. Lab interns do microbiological work, calibrate instruments, etc. Ms. Roosevelt suggested the board tour the lab at a future meeting. Ms. Roosevelt feels it is also "good public relations" to conduct tours to the public. Mr. MacDonald said the department is contacted regularly for tours and conducts them often.

Capitol budget: Operating and Capital budgets are approved separately by the City Council. A City Council round table meeting was held this year. Round table meetings are open to the public but there is no public discussion. No decisions or votes are taken.

Enterprise Fund: The water department has an enterprise fund which requires that the revenue generated from the water rates pays for the entire operation of the Water Department including capital expenditures and debt.

The American Water Works Association (AWWA) Tour: A tour was conducted of the Cambridge water department in June for attendees of the AWWA Conference which was held in Boston this year (2104).

The Sustainable Water Management Initiative (SWMI): Mr. MacDonald will be attending a SWMI meeting next week.

National Federation for the Blind Vote: After the vote in the affirmative, the board wished for it to be notated for the record that this is a longstanding event that has been grandfathered in. (See Action Items)

C. OPERATIONS

Transmission and Distribution: No Comments

Water Operations: No Comments

Watershed: We are planning to test the soil in the railroad right of way between the Sozio rotary and the plant driveway. Ms. Roosevelt inquired as to who would pay for any mitigation, if needed. Mr. MacDonald said there is the thought to move the permanent Fresh Pond path directly over the railroad right of way to effectively cap it, to avoid mitigation. Moving the path could, according to Mr. MacDonald, potentially provide drainage improvements in this area which is currently being studied. The area would be planted heavily. Ms. Roosevelt expressed concern that this would upset residents. The idea will be discussed further with the City Manager's Office, other City Departments and consultants. The water board would like to discuss the railroad right of way, surveying and the results of municipal stormwater assessment (MSA) at future Board Meetings. Mr. MacDonald said that when the MSA is at a presentable state, it will get on the list of topics.

We are off MWRA water with the potential to be back on in September because the sewer work hasn't been completed. The transition back to 100% Cambridge water was posted on Twitter, Facebook and our webpage.

Business: No Comments

Engineering Division: No Comments

D. ACTION ITEMS

Mr. Tanner moved and Mr. Johnson seconded the motion to approve the permit from the National Federation for the Blind for their annual walk. The vote was unanimous in favor of the motion.

E. MISCELLANEOUS CORRESPONDENCE AND ITEMS OF INTEREST

None

F. NEW BUSINESS

Mr. Johnson moved and Ms. Roosevelt seconded the motion to adjourn the meeting at 6:22 pm. The vote was unanimous in favor of the motion.

G. NEXT MEETING DATES /TOPICS

- September 10, 2014 – TBA/Kingsley Park Project Update
- October 15, 2014 – TBA/Watershed Tour
- November 12, 2014 – TBA/Distribution System Update
- December 10, 2014 – TBA/Energy Update/Election of the President

Minutes approved by vote of the Board.

Signed: _____
Ann C. Roosevelt, President

Date: _____

B. MANAGING DIRECTORS REPORT

- Kingsley Park Project Update/Tour
- Review of Rules of the Reservation
 - More Restrictions (i.e. drone)

C. OPERATIONS - Transmission and Distribution – June, July and August 2014

- Continue working with and supporting DPW regarding sewer separation, Chapter 90 and Common Manhole Removal Contracts.
- Scheduling lead water service replacements within DPW Contracts 12, 13, 14, 15 and 17.
- Working with DPW and contractors on several water main projects that include:
Huron A: Working with DPW contractor coordinating the installation and inspection of water main that is replacing old main on multiple streets off Huron from Fresh Pond Parkway to Gurney Street including work on the 40 and 30 inch transmission mains. Renewing water services; replacing hydrants and associated valves.
Huron B: Working with DPW contractor coordinating the installation and inspection of water main that is replacing old main on multiple streets off Huron from Gurney to Sparks Street including work on the 40" Transmission Main. Renewing all water services, hydrants and associated valves.
- **Concord Ave:** Working with DPW contractor coordinating the installation and inspection of water main that is replacing old main on multiple streets off Concord between Fresh Pond Parkway and Huron Avenue. Renewing all water services, hydrants and associated valves.
- **40" Transmission Main Reactivation and Switch Back to Cambridge Water Supply:** The 40" Transmission Main is back in service
- **Amory Street:** Continued installation of approximately 1300' of new CL52 8" Ductile iron pipe replacing the existing 6" Cast iron pipe to include all services, valves and hydrants.
- **Trowbridge Street:** Began swapping all services and hydrants on the old 6" water main onto the parallel 24" main to improve domestic and fire protection flows, from Broadway to Mass Avenue.

June – August 2014

5 Leaks were repaired	310 Utility mark outs
7 Water services renewed	291 Inspections performed
10 Services installed or reconnected	204 Valves exercised
8 Valves replaced/repared	32 Work orders completed
6 Hydrants repaired/replaced	5 Miscellaneous Jobs

C. OPERATIONS – Watershed – June, July and August 2014

- *Winter Street Dam Spillway Repairs*: Project completed. Engineers currently conducting Phase 1 inspection and permitting close-out.
- *Kingsley Park Restoration Project*: ~75% completed. Last plant deliveries, plantings imminent. Upper loop flexible porous material paving 85% completed, porous asphalt scheduled for week of 9/15, plant protection fencing installation ongoing.
- *Route 2 Bridge Replacement/128 Lexington Resurfacing and Drainage Improvements*: Initial highway mill and repave work has begun. MassDOT proposing to tackle invasive species along edge corridors and interchanges with pesticide treatments. Watershed Division and Lexington ConCom will review and conditionally allow where appropriate.
- *Upper Hobbs Brook Reservoir Water Quality Improvements Project*: Draft report is due in September for review and comment.
- *Municipal Stormwater Assessment*: Completed project will be presented at Northeast Arc Users Group (NEARC) conference 10/6 in Mystic, CT.
- *Bacon Street Redevelopment, Watertown*: Licensing agreement being drafted between Cambridge and Watertown to allow bike path over Cambridge-owned conduit right of way between Howard and Main Streets, Watertown.
- *Sibley Road, Weston*: Licensing agreement being drafted between the Town of Weston and Cambridge to allow the Town to discharge treated, controlled runoff onto Cambridge property abutting the Stony Brook Reservoir. This repaving project will be a significant improvement over existing conditions.
- *Former Polaroid Facility, 1265 Main Street-Waltham*: Site work nearly completed. Majority of site is paved; stabilized with online stormwater management systems.
- *275 Wyman Street*: Site work continues. CWD to meet proponents to discuss proposed offsite mitigation plan for wetland restoration at the 404 Wyman Street wetland, intermittent stream.
- *New Construction Projects*:
 1. *99 Third Avenue, Waltham* – Demolition phase. Site will meet State Stormwater Standards in a stormwater-impacted sub-watershed
 2. *256 Second Avenue, Waltham* – Demolition phase. Site will treat and recharge nearly all stormwater in a stormwater-impacted sub-watershed
- *Site Plan Review*: Major future watershed redevelopment projects currently in design/permitting phases include
 1. Hospice, Winter Street, Lincoln;
 2. 130/180 Third Avenue, Waltham;
 3. Reservoir Woods West, 830-850 Winter Street, Waltham;
 4. 180 Boston Post Road, Weston;
 5. 44 School Street, WestonCWD is working with design engineers to improve stormwater runoff quality and protect water supply security.



CITY OF CAMBRIDGE
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July 2, 2014

JUNE, 2014 WATER SUPPLY SUMMARY REPORT

Highlights

- 85% capacity (based on 3.2BG usable capacity)
- As of 6/11, no longer on MWRA supplemental drinking water. Cambridge watershed is sole source.
- Measured June precipitation (2.49") is ~1" less than MA northeast regional normals (3.51")

Storage

Figure 1: Hobbs Brook Reservoir Storage, June 2014

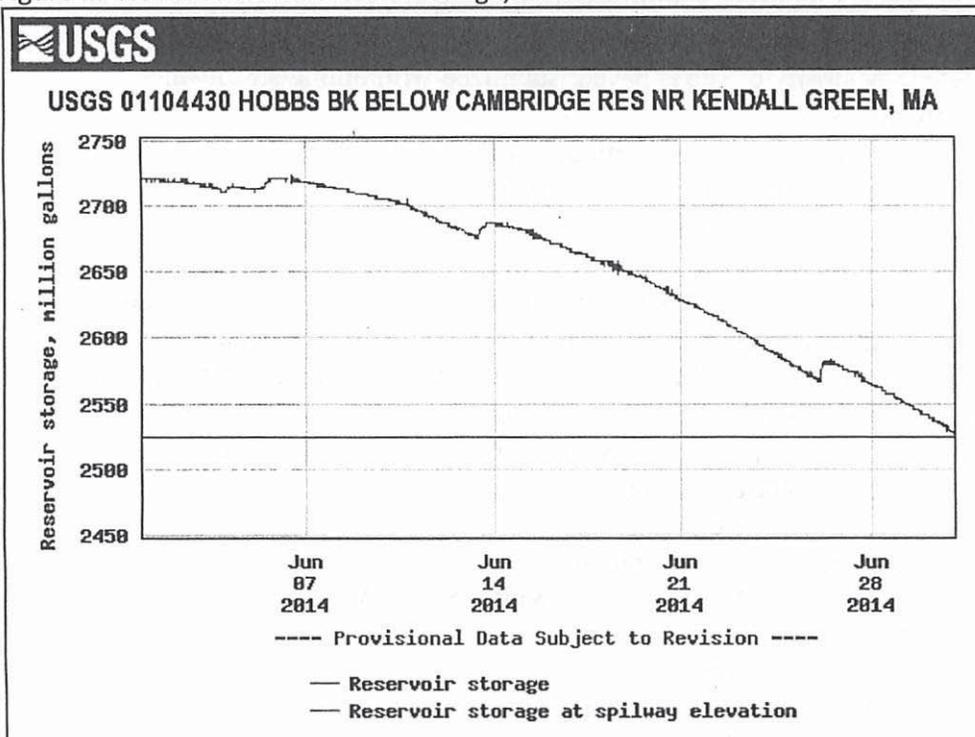


Figure 2: Stony Brook Reservoir Storage, June 2014

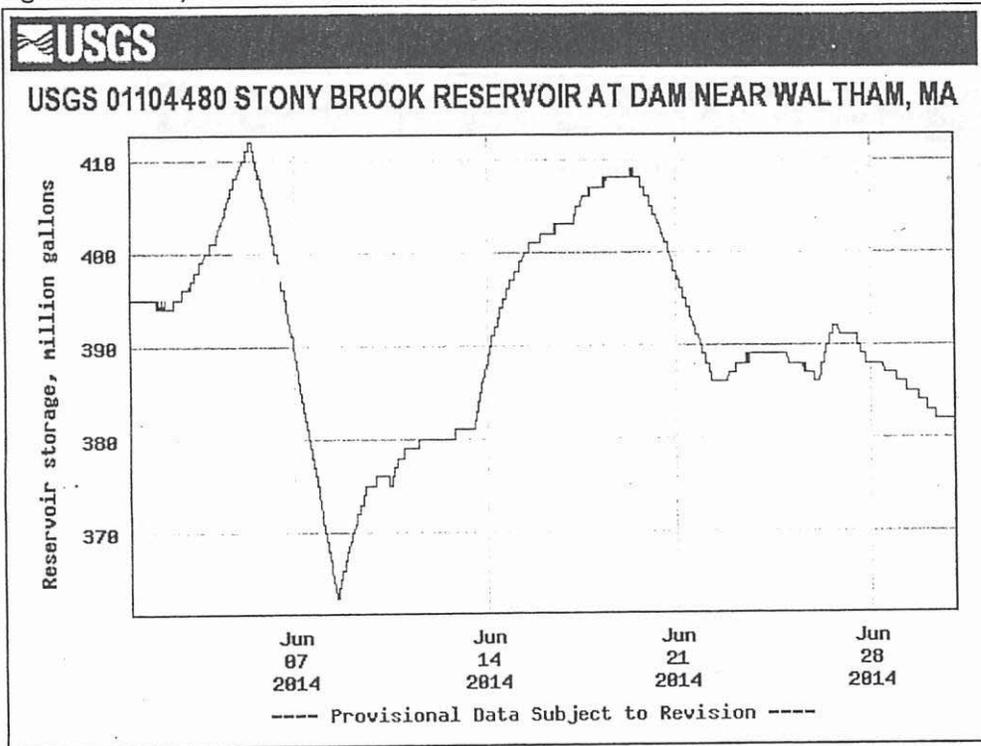
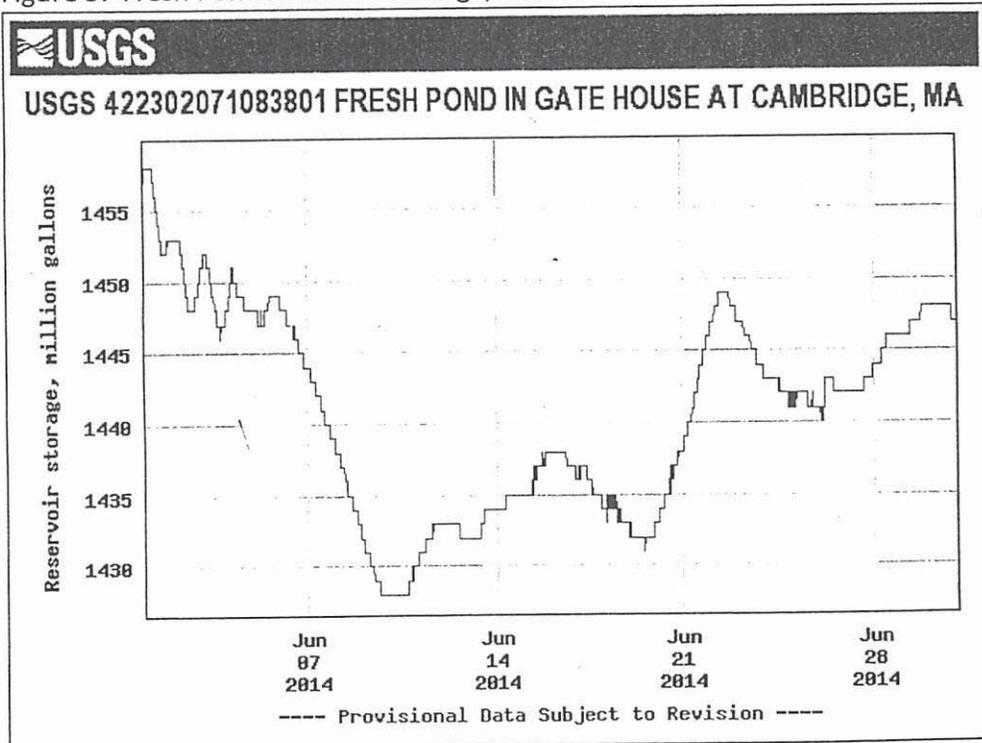
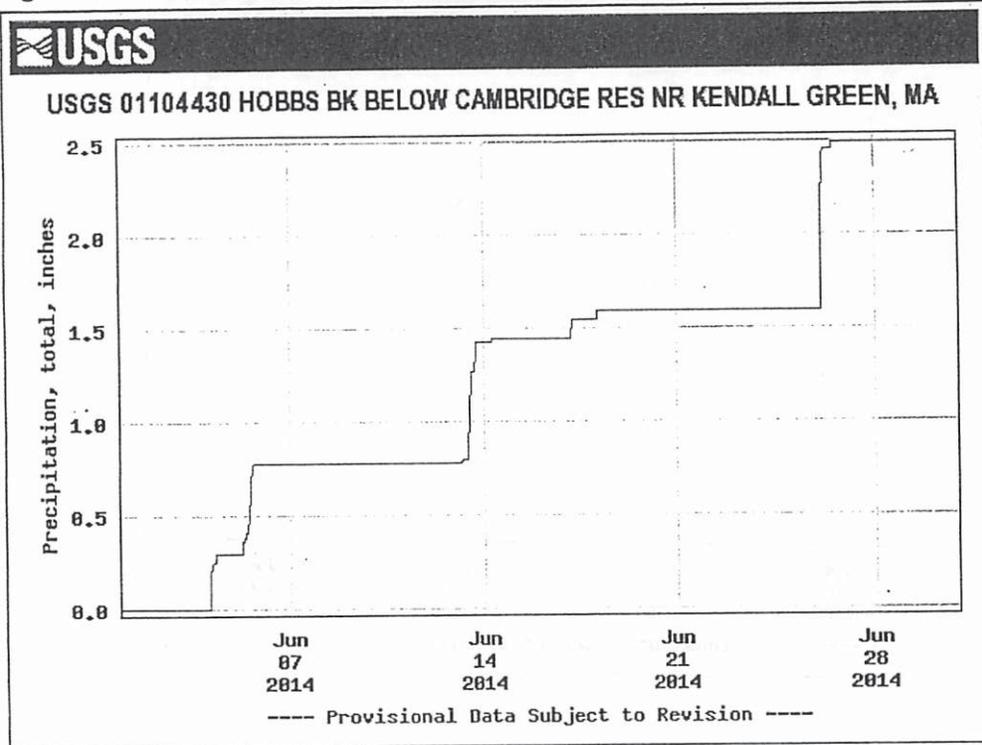


Figure 3: Fresh Pond Reservoir Storage, June 2014



Precipitation

Figure 4: Precipitation measured at Hobbs Brook Reservoir, June 2014



David Kaplan, Watershed Protection Supervisor
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Real-time data available on the web at
<http://waterdata.usgs.gov/ma/nwis/current?type=cambrid&group key=NONE&search site no station nm=&format=html table>



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August 4, 2014

JULY, 2014 WATER SUPPLY SUMMARY REPORT

Highlights

- Water supply currently 78% system capacity (based on 3.2BG usable capacity)
- Measured July precipitation (6.2") is higher than MA northeast regional normals (3.47")

Storage

Figure 1: Hobbs Brook Reservoir Storage, July 2014

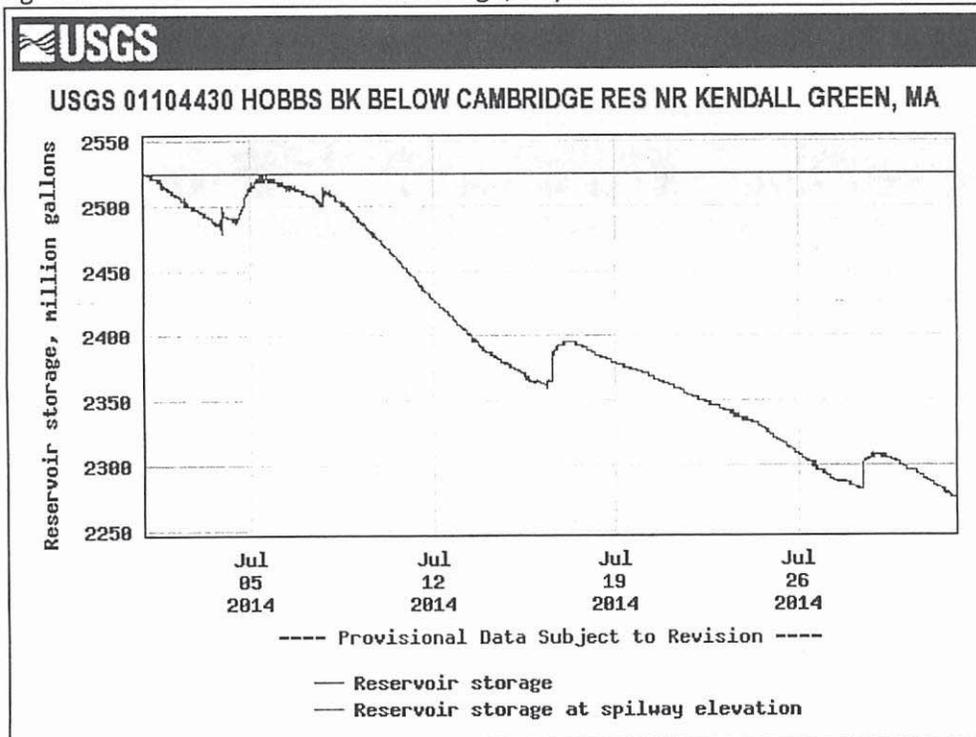


Figure 2: Stony Brook Reservoir Storage, July 2014

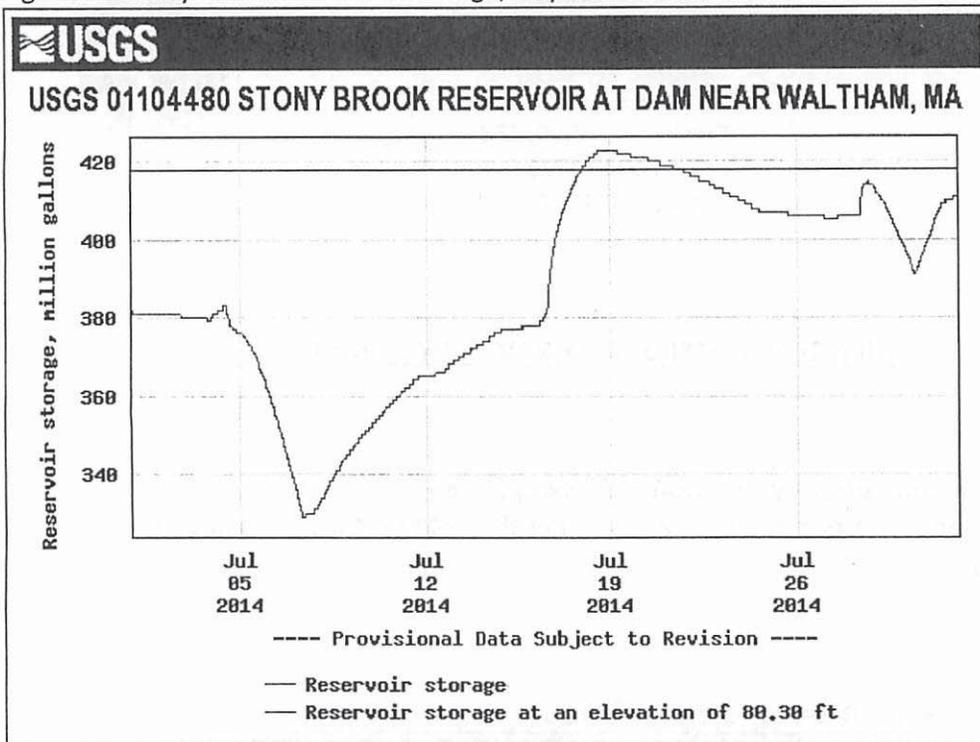
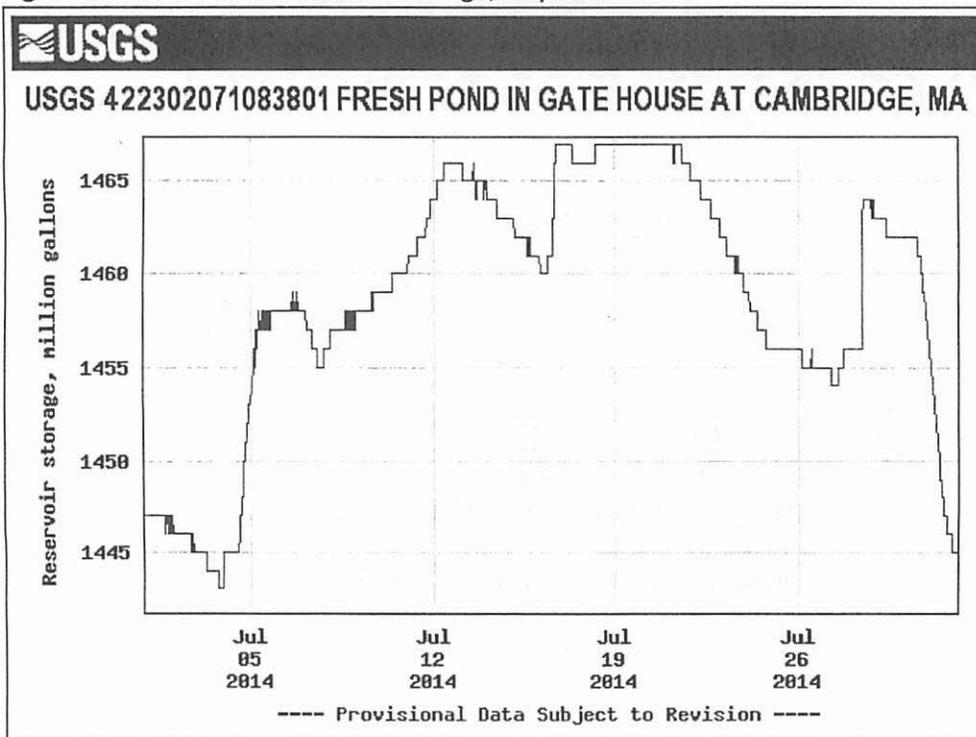
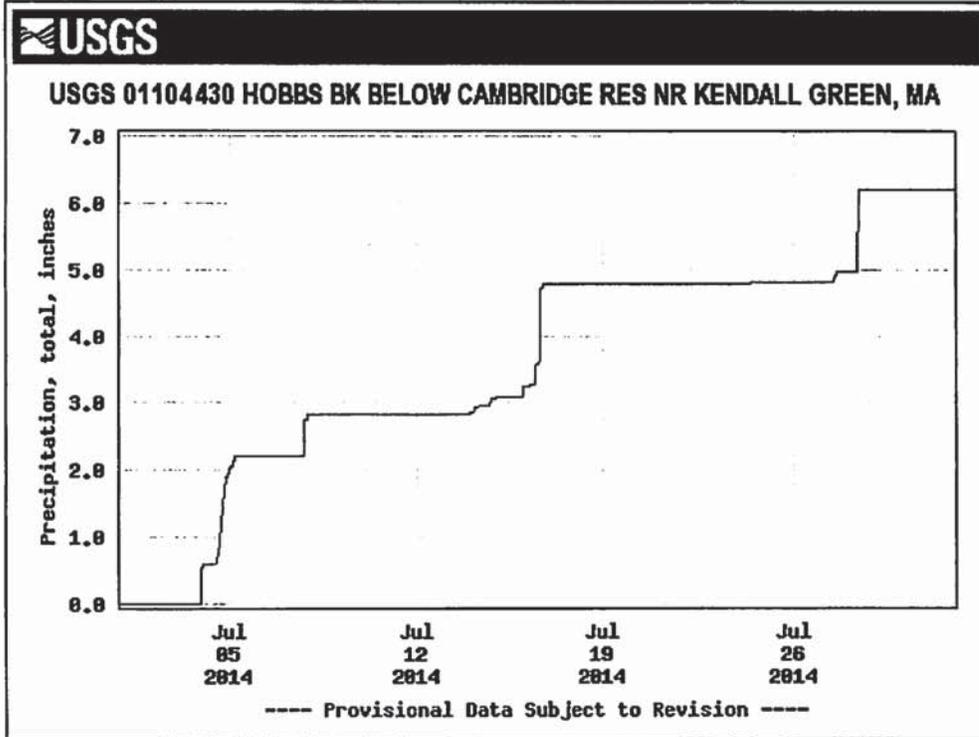


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September 4, 2014

AUGUST, 2014 WATER SUPPLY SUMMARY REPORT

Highlights

- Water supply currently 68% system capacity (based on 3.2BG usable capacity)
- Measured August precipitation (3.13") is lower than MA northeast regional normals (3.6")

Storage

Figure 1: Hobbs Brook Reservoir Storage, August 2014

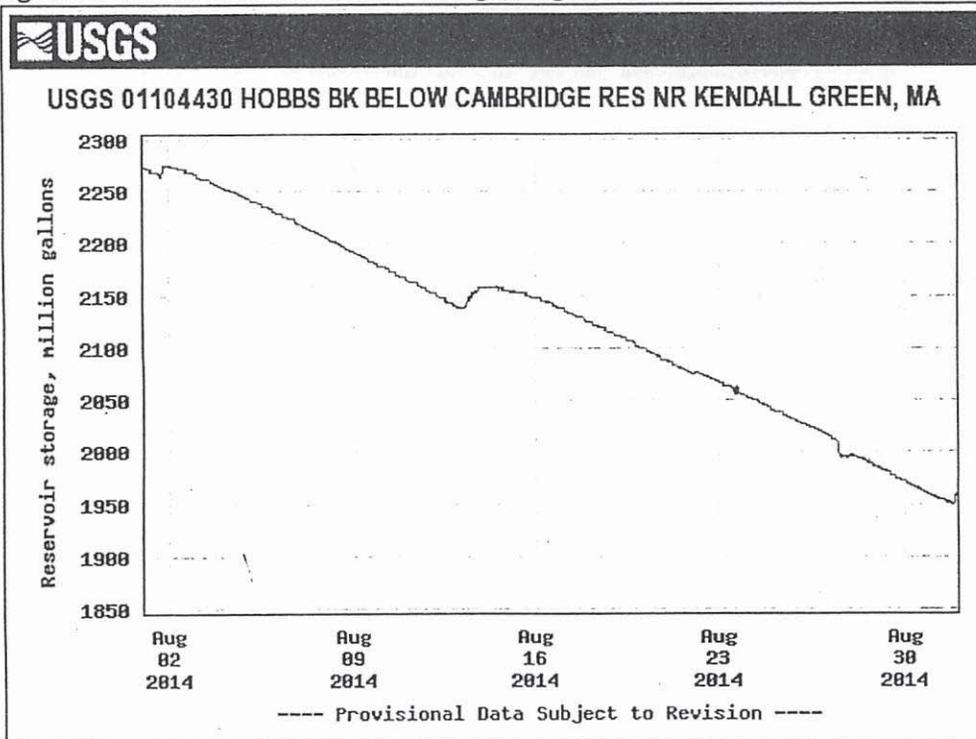


Figure 2: Stony Brook Reservoir Storage, August 2014

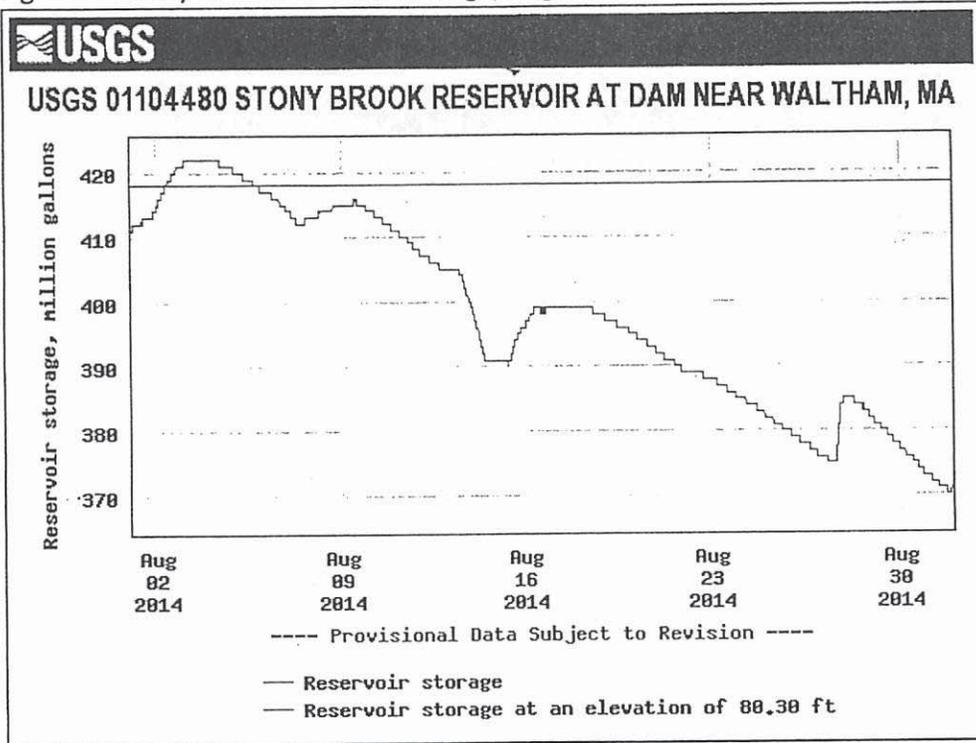
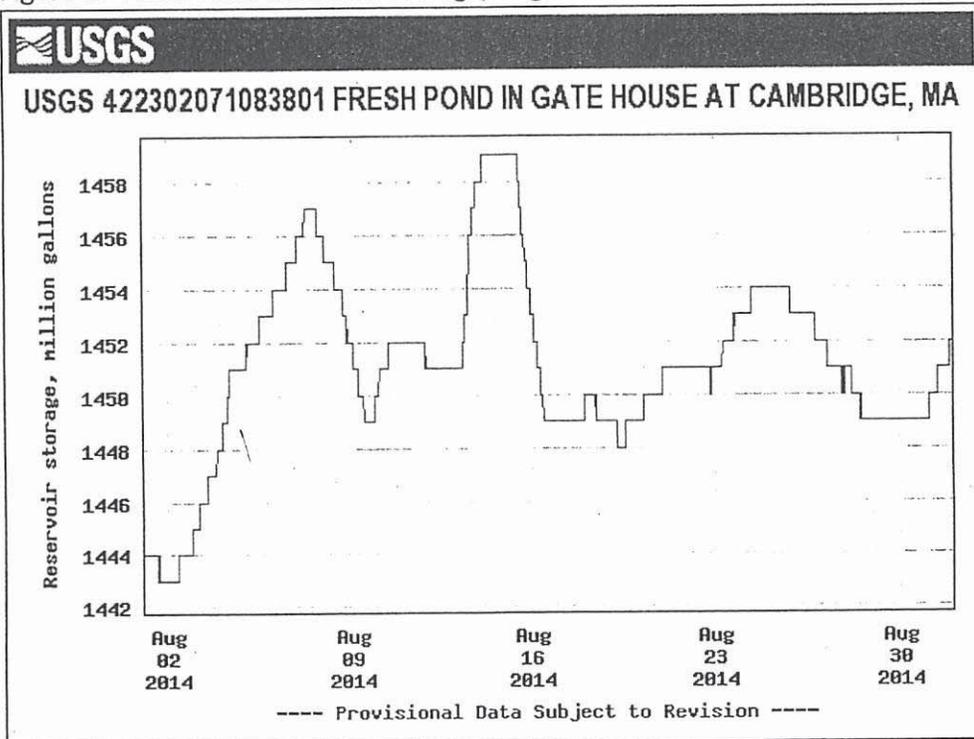
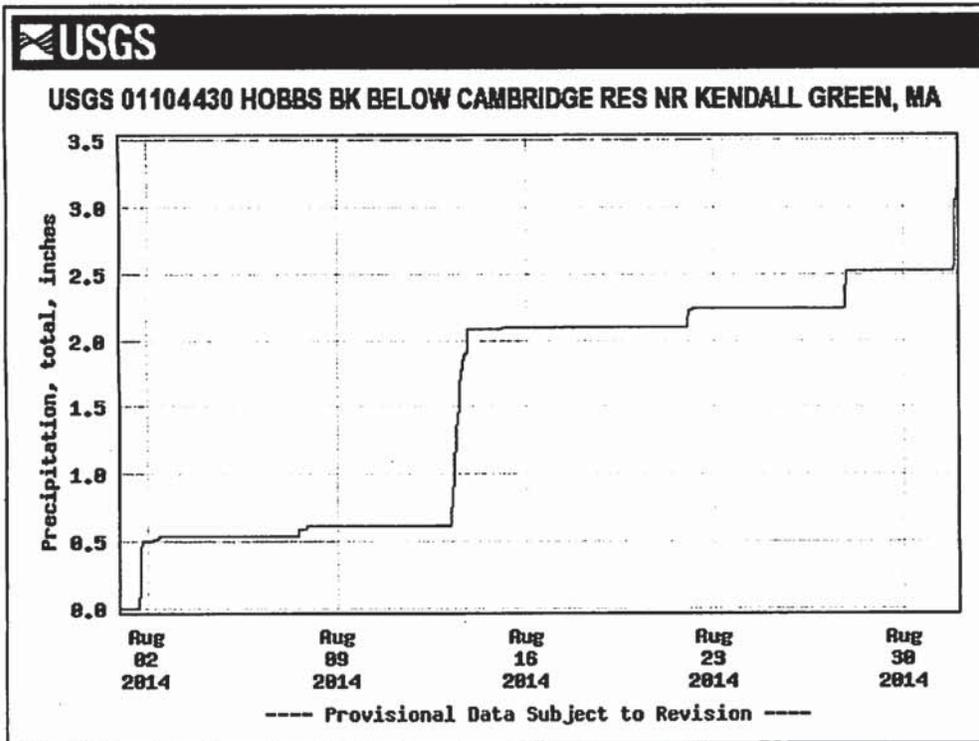


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Precipitation

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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® 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® 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.

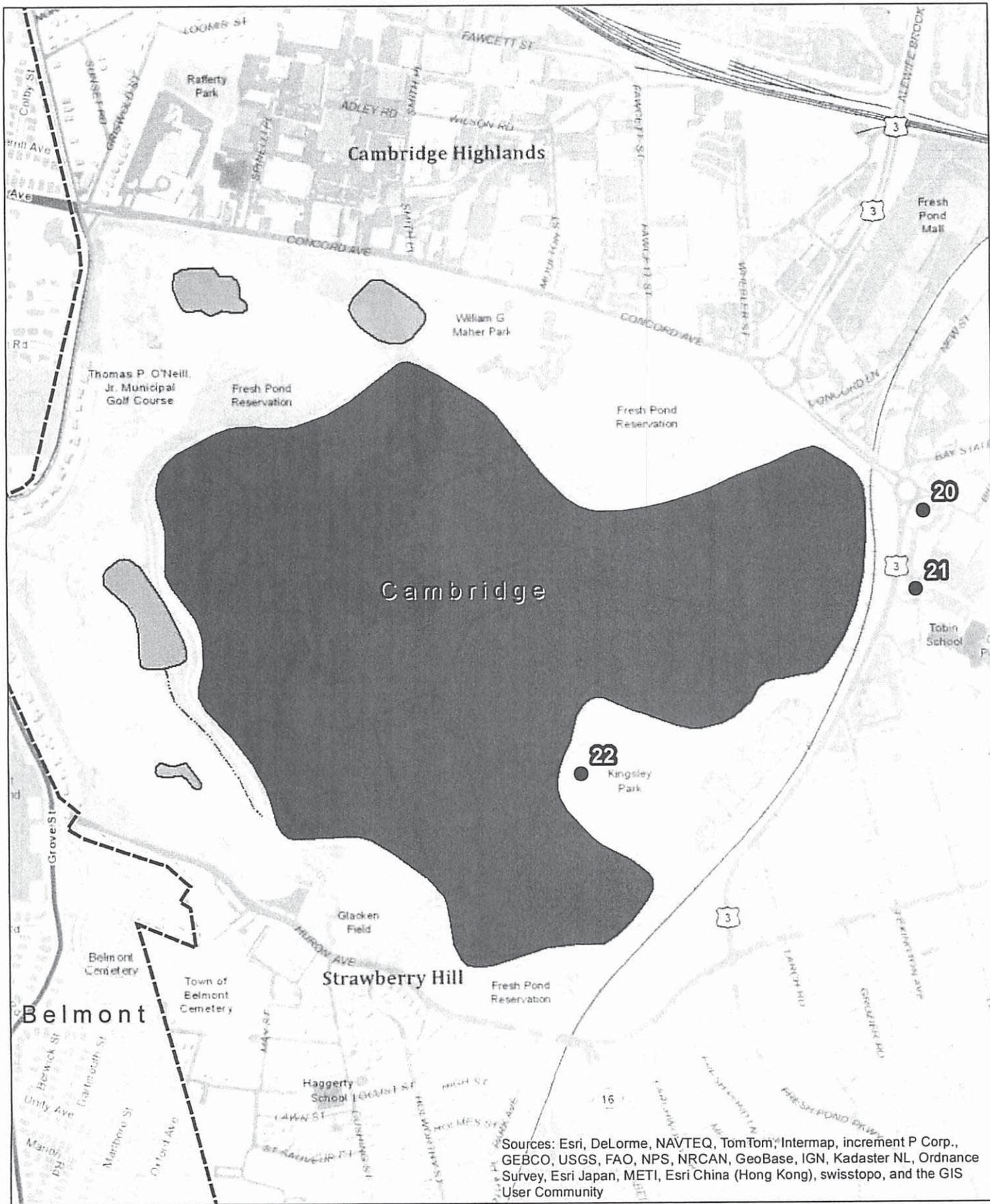
17. **Sibley Road Reconstruction** – The Town of Weston is planning to reconstruct Sibley road summer, 2014. The Town will include a new catch basin, a proprietary water quality unit and a level spreader to improve drainage while protecting the abutting Cambridge property from erosion and the Stony Brook 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.



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community



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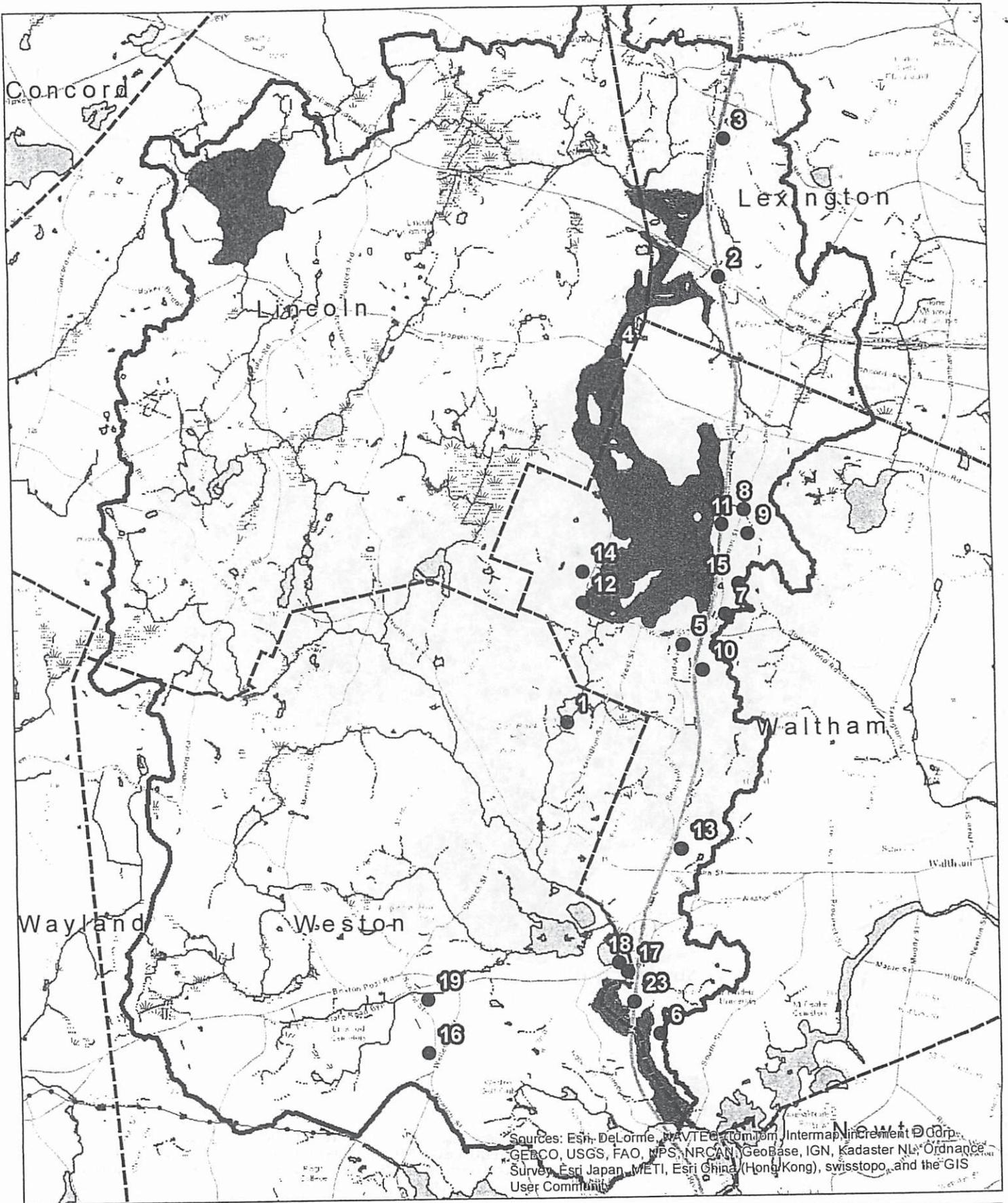
Legend

- Reported Sites, June 2014
- Reservoirs

Cambridge Water Department
Site Monitoring Report
June, 2014



C-110



Legend

- Reported Sites, June 2014
- Reservoirs
- ▭ Watershed Divide

Cambridge Water Department
Site Monitoring Report
June, 2014

C-17

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

David Kaplan, Watershed Protection Supervisor
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C. OPERATIONS – Business

F14 Billings				FY15 Billings					
Month	Billed Water Consumption	Month	Billed Water Consumption	Month	Billed Water Consumption	Month	Billed Water Consumption		
July	571,144	January	606,714	July	547,558	January			
August	433,180	February	471,448	August	457,652	February			
September	230,660	March	232,241	September		March			
October	848,832	April	486,815	October		April			
November	280,555	May	440,355	November		May			
December	528,790	June	318,201	December		June			
GRAND TOTALS FY14			5,448,935	GRAND TOTALS FY15			1,005,210		
GRAND TOTALS FY13			5,269,767	3.40%	GRAND TOTALS FY14			1,004,324	0.09%

•June 2014 Cross Connection Program Results

passed tests	failed tests	surveys
255	22	14

•July 2014 Cross Connection Program Results

passed tests	failed tests	surveys
387	26	11

•August 2014 Cross Connection Program Results

passed tests	failed tests	surveys
456	37	18

Water Fund Balance: \$9.1M (6-30-2013)

C. OPERATIONS - Water Operations – June, July and August, 2014

Plant Operations:

- Plant continues to operate 24/7. The city solely supplied by CWD.
- June water production: 395.72 million gallons or 14.58 million gallons per day (MGD).
- July water production: 516.42 million gallons or 16.6 MGD
- August water production: 485.83 million gallons or 15.7 MGD.
- The DEP approved our plan to switch to Ammonium Sulfate for the chloramination process. CWD staff worked to complete the refit of the chemical feed system. Plans to switch over will be tentatively in October.
- Hosted the wake of Walter J. Sullivan.

Water Quality/Laboratory:

- The drinking water was in full compliance with all regulations.
- During June, July and August 2014 there were no distribution system Coliform positives.
- The triennial Safe Drinking Water Act – Lead and Copper Rule (LCR) sampling took place. 60 residences were identified on a DEP approved sample plan. The residents were responsible to follow sampling instructions and collect the sample. Sampling was completed by 7/23/14. The analysis was complete in-house by 8/15/14. Drinking water compliance with the rule states the lead concentration to be less than 0.015 milligrams per Liter (mg/L) for Lead and 1.3 mg/L for Copper at the 90th percentile of samples. The 60 results for each metal were ranked lowest to highest concentration. The compliance value therefore is the 54th concentration, our 90th percentile result. CWD 90% percentile for lead is 0.005 mg/L Lead and 0.041 mg/L Copper in compliance with the LCR. No samples exceeded the action level for either metal.
- Samples were sent out for the semi-annual analysis of 86 Pharmaceuticals and Personal Care Products (P/PCP). The drinking water results revealed only 0.001 Continue (a metabolite of nicotine) at the detection limit. Currently there are no regulated P/PCP chemicals. This sampling is voluntary.
- A drinking water sample was sent out to test for Perchlorate in the water. No Perchlorate was detected.
- Two new co-ops were hired for the next 6 month work term from Northeastern University.

General:

- DEP NON – On-going reporting continuing.
- The Department of Environmental Protection Sanitary Survey response is complete.
- CWD hosted the monthly Monday Open House and Tour for June, July and August several private tours happened as well.
- MWRA Advisory Board meeting attendance continues.
- Hosted AWWA ACE14 Tour

C. OPERATIONS – Engineering and Program Development – June, July and August 2014

MEETINGS ATTENDED:

Huron “B” and Concord Avenue Sewer Separation Projects, Main Street/Kendall Square Ch. 90 Contract 17 Project, Binney Street Project (Alexandria), MIT “Nano” Project, Novartis Project, Richdale Avenue Project, On-site with N-Star Electric to advise of routing new North Point duct bank from Msg. O’Brien to the Broad Canal, Payson Park Storage Tank Mixing Equipment Procurement, Bi-weekly CWD/DPW and weekly DPW Contractor Coordination meetings.

CONSTRUCTION/WATER USE PERMITS ISSUED:

- Issued 72 construction permits June thru August 2014

PROJECTS/OTHER ACTIVITIES INCLUDE:

- Continue to receive from various contractors’ water main as-built information for ongoing water main work being performed e.g. Concord Sewer Separation (SS) Project, Binney Project, 22 Water Street project and 20 Child Street (North Point) Project.
- Assisted with the transition back to CWD Water relating to the 42” and 30” transmission mains.
- Continue to monitor and advise on the new WM installation on Third Street - Binney to 100’ beyond Rogers and on Rogers St, 3rd to 1st.
- Completed monitoring new service lateral work for 10 Glassworks (Archstone), new service laterals and minor WM work for 20 Childs project (North Point), continue to monitor and advise on new WM installation work at various locations for the Concord Avenue SS Project.
- Completed WM design/layout drawings for Thorndike (Fulkerson to Sciarappa), Kinnaird (Putnam to Jay), Hayes (end to end) and continued working on WM design/layout drawings for Sherman (Garden to Walden) (all as addendum to upcoming DPW CH. 90 projects).

UPDATING DISTRIBUTION MAPS USING GIS TOOLS – STATUS:

- Continue upgrading of the Fire Hydrant database and system valve ID’s as part of valve exercising program and GIS edits from the GIS Map log book.
- Continue updating the spreadsheet for tracking the remaining lead services in the system/Master service card spreadsheet.
- Continue to update “Service Cards” spreadsheet which compiles and links service card locations with sketches that show the proximity of all the tie-ins required to locate water service boxes and pipes going into each dwelling
- Continue working on city wide edits for maps; adding water service information; quality control; printing new GIS maps; gathering information for new WMs and other water infrastructure related upgrades and creation of WM Log spreadsheet.
- Continue updating water main/service leak layer based on the information gathered from 2013 and 2014 Distribution Division work order list.
- Created Hybrid maps for the following streets
 - Trowbridge between Broadway & Harvard Streets
 - Thorndike from Sciarappa to the dead end after Fulkerson
 - Kinnaird from Putnam Avenue to Jay
 - Sherman from Garden to Walden
 - Hayes from Howard to the dead end
- Began design development drawings for 8” new water main on Kinnaird Street from Putnam Avenue to Jay Street, 8” new water main on Hayes from Howard to the Dead end & 12” new water main on Sherman Street from Garden to Walden
- Continue to conduct GIS training for new Coops student workers.

D. ACTION ITEMS

- Bike path, Watertown
- Sibley Road, Weston

E. MISCELLANEOUS CORRESPONDENCE and ITEMS OF INTERST

- **None**