Friday, April 12th, 2019 MA Congress of Lakes and Ponds



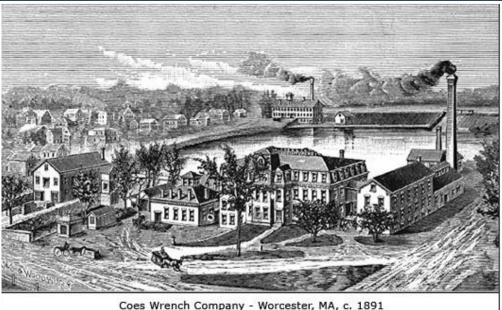
City of Worcester Department of Public Works & Parks presents

Worcester's Blue Spaces Initiative: The Case for a Municipal Lakes and Ponds Management Program



History of the City of Worcester







- Headwaters of the Blackstone River
- Incorporated as a city in 1848
- Over 20 lakes with 30+ miles of frontage
- Rich industrial history

Worcester Today



Opportunities

- **2017 Population: 185,677**
- **▶** 38,000 college students
- Diverse population
- Highly accessible

EcoDev Projects

- Redevelopment projects for parking, hotels, apartments, office space and a baseball stadium!
- Goals: 18 hr day, diversity, live, learn, work, visit, and play

Worcester's Green Spaces

Apricot Street Playground

Ball Property

Banis Street Playlot

Beaver Brook Park

Bell Hill (Chandler) Park

Bennett Field

Betty Price Playground

Blithewood Park **Boynton Park**

Burncoat (North) Park

Burncoat Street Playground

Cascades Park

City Hall Common

Coes Pond Parks Cookson Field

Cristoforo Colombo (East) Park Salisbury Park

Crompton Park

Dodge Park

Elm Park

Fairmont Park

Farber Field

Grant Square

Great Brook Valley Playground Field)

Green Hill Park

Greenwood Park

Hadwen Park

Harry Sherry Field (S.

Worcester Playground)

Holland Rink Playground

Holmes Field

Indian Hill Park Indian Lake Beach

Institute Park

Kendrick Field

Korean War Memorial

Lake Park

Lake View Playground

Morgan Landing

Oakland Heights Playground

Oread Castle Park

Providence Street Playground

Rockwood Field Shore Park

Tacoma Street Playground

Ty Cobb Park

University (Crystal) Park

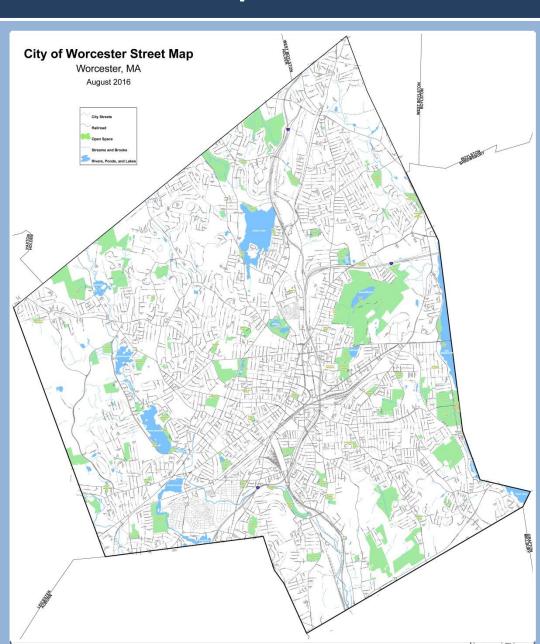
Vernon Hill Park

Winslow & Pleasant (Peace)

Park

55+

Parks!

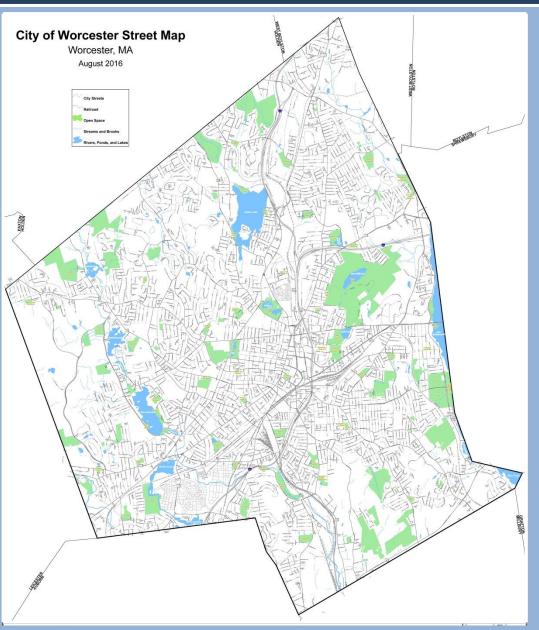


Worcester's Blue Spaces

20+ lakes and ponds!

Burncoat Pond Cider Mill Pond City Farm Pond Coes Pond Coes Reservoir **Cook Pond Curtis Pond** Elm Park Pond Flint Pond Green Hill Pond Indian Lake Little Indian Lake Lake Quinsigamond Leesville Pond Patch Pond Patch Reservoir **Smith Pond** Salisbury Pond Williams Mill Pond

Bell Pond

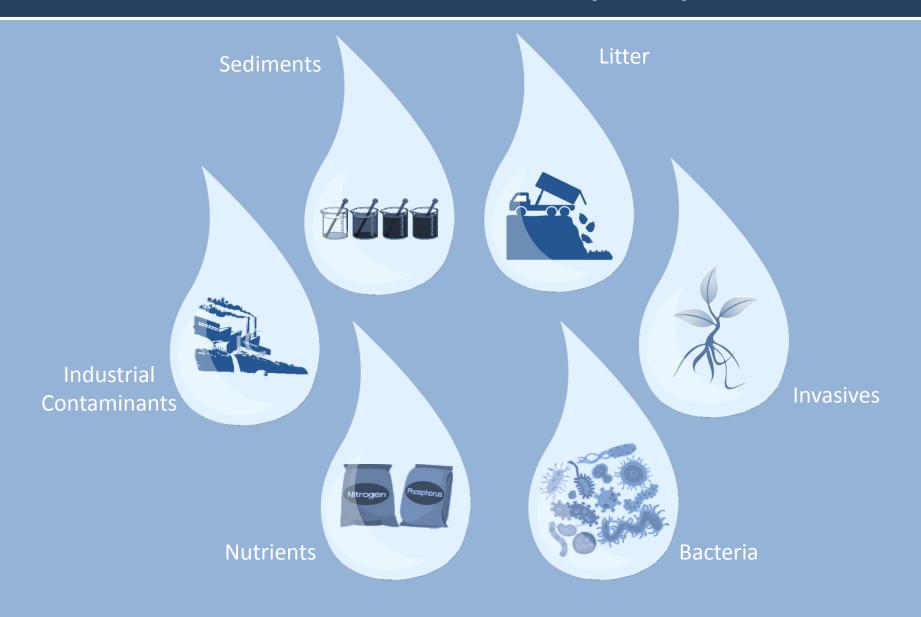


Blue Space = Recreational Space



- 6 public beaches, 1 public boat ramp
- Easy access from major roads
- ½ within walking distance from neighborhoods
- Waters support: fishing, boating, rowing, ice hockey, jet skiing, dragon boat racing
- Perimeters support: trails, beaches, parks, fishing piers, restaurants

Our Urban Water Quality Impairments



Existing Watershed Associations

Indian Lake Watershed Association

Friends of Institute Park

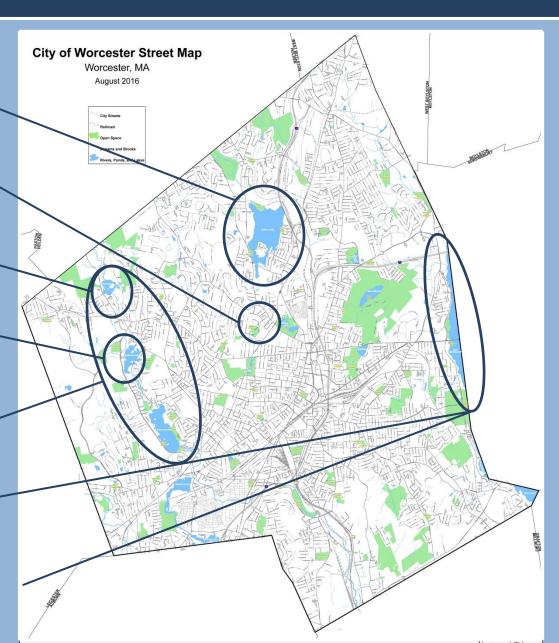
Smith's Pond Corporation

Friends of Patch Reservoir

Tatnuck Brook Watershed
Association

Lake Quinsigamond Commission

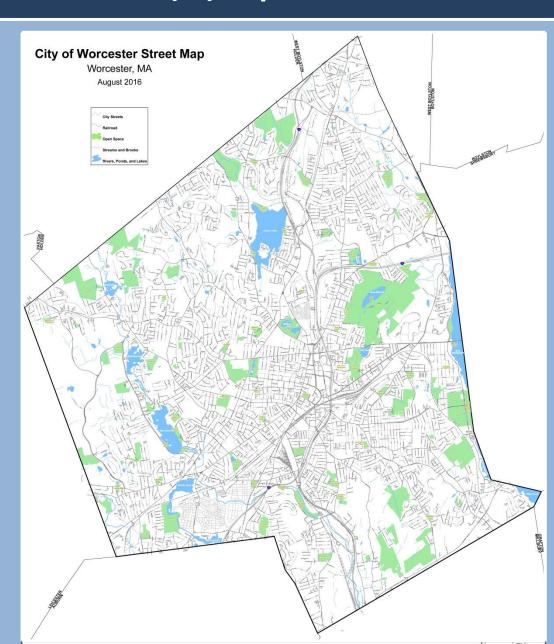
Lake Quinsigamond Watershed Association



Worcester's Blue(?) Spaces

"It is time we treat our blue space as we treat our green space...The city of Worcester is blessed with a lot of waterways, and I think this adds to the quality of life for residents, it brings people to the city through tourism and adds other economic benefits."

- Mayor Joseph M. Petty (Jan 2016)



City of Worcester Lakes and Ponds Program



Position: Senior Environmental Analyst

Location: Department of Public Works Water Operations Division

Reports to: Environmental Systems Manager

1st **Years Budget:** \$150,000

2nd **Years Budget:** \$220,000

3rd Years Budget: ???

Program Tasks



Goal: Efficiently maintain and improve water quality for recreational and economic development purposes

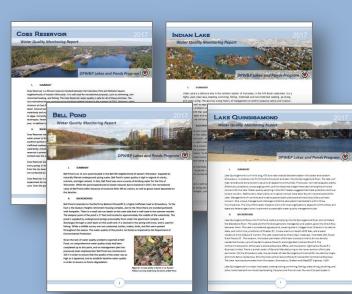
- Work alongside stakeholders to respond to ongoing and up-andcoming water quality issues
- Provide educational opportunities to the public to increase the awareness of how to care for these resources
- Create and implement sustainable, long-term management plans



- Attend watershed meetings to learn of ongoing issues
- Wrote and approved a program QAPP
- Collect water quality samples and evaluate lake and tributary water quality
- Implement and run a volunteer citizen science program
- Assist in the identification of water quality monitoring priorities at other lakes and ponds



- Identify and prioritize water quality threats across lakes
- Write water quality reports and management plans
- Obtain and manage local permits
- Contract and coordinate water quality improvement projects





- Develop educational materials (pamphlets, kiosks, posters, etc)
- Collaborate with local universities
- Hold educational workshops on relevant water quality issues
- Create and manage a citizen science program



- Hold public presentations on water quality and its implication for recreation
- Work with citizen groups to develop and promote new waterbased recreational activities for the public

Program Successes



- ▶ MA DEP approved QAPP, entering 3rd year of in-house sampling
- City-sponsored management plans for 4 waterbodies
- Greater communication between watershed groups and city
- A volunteer cyanobacteria monitoring program
- More public education on water quality issues
- Elevation of water quality improvement projects
 - Support of novel water quality improvement projects

Enabling Factors



Enabling Factors for Program Creation

- Engaged watershed associations
- Political champion
- Public access
- Framing as an economic development issue

Enabling Factors



Enabling Factors for *Program Success/Program Strengths*

- Working closely with watershed associations
- Holistic approach
- Outreach and engagement activities
- Working closely with other municipal departments
- A full time position commitment
- Supportive management
- Going beyond water quality

Advantages of a Municipal Program



Why a municipal level works for Worcester

- Reduced cost for permitting and monitoring
- Ability to manage on a watershed level
- Increased coordination of efforts
- Collaboration between municipal programs
- Ability to access more funding
- Increased awareness of city assets
- Good public relations for the city

Challenges



Ongoing Challenges

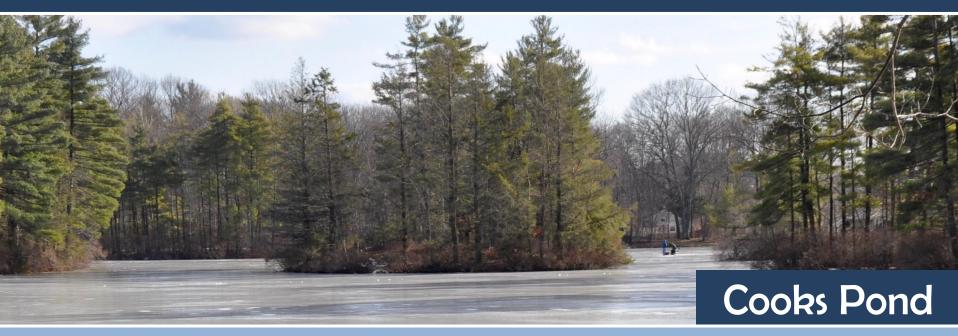
- Community engagement
- Funding
- Communication
- Perception/media and public education
- Political dynamics

Going Forward



- Increase outreach to new stakeholder groups (restaurants, fishing community)
- Improve outreach to current groups (including students and homeowners)
- Increase communication
- Increase intern experiences

Collaborators



Collaborators

- Lake Quinsigamond Watershed Association
- Lake Quinsigamond Commission
- Tatnuck Brook Watershed Association
- Coes Zone Task Force
- Friends of Patch Reservoir
- Smith's Pond Corporation
- Indian Lake Watershed Association

- Bancroft School
- Blackstone River Coalition
 - Blackstone Headwaters
 Coalition
- Friends of Institute Park
- Mass Audubon
- Worcester Polytechnic Institute
- Clark University
- Worcester State University
- Assumption College
- University of North Carolina

- City of Worcester Department of Inspectional Services
- Worcester ConservationCommission
- Blackstone Heritage Corridor
- Mass Department of Conservation and Recreation
- Mass Department of Environmental Protection
- US Environmental Protection Agency

Questions?



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