

# Lake Hayward Lake & Watershed Management Plan

Stakeholders Meeting

January 31, 2015



# Today's Facilitators

## Randy Miller – Project Leader

- Lake Hayward Resident
- Lake Quality Improvement Committee member
- East Haddam Lakes Association



## Rick Canavan – Technical Advisor

- Environmental Scientist at CME Associates
- Vice-President, CT Federation of Lakes



# Agenda

Lake Hayward Info

Watershed Plan Overview

Project Goals

Lake Water Quality Monitoring & Restoration

Education

Threats

Stakeholder Introductions

*Stakeholders' Discussion*

Next Steps





Watershed Area  
1,500 acres

Lake Area  
174 acres

Northern boundary of  
Eightmile River  
Watershed

Most densely  
populated area in  
Eightmile River  
Watershed

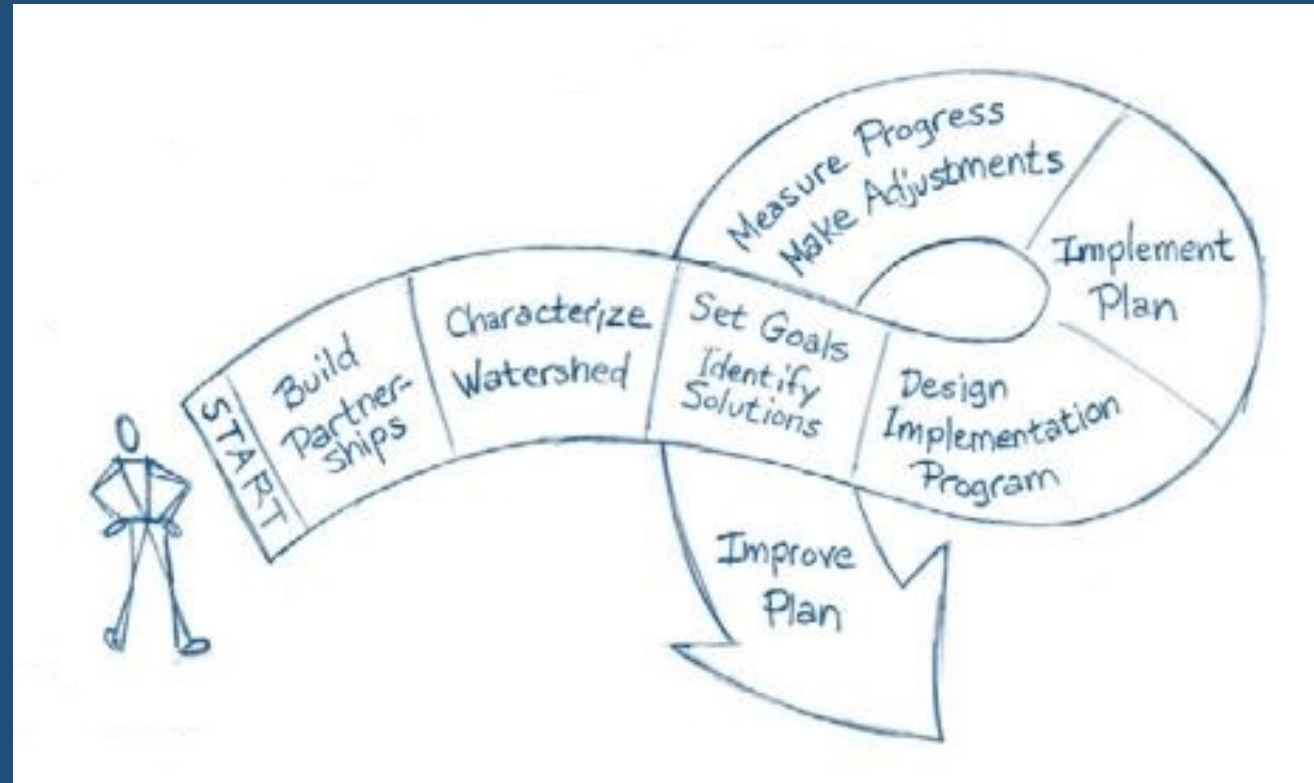
# Lake Hayward Info

- West Side - Property owners' association (POALH), 394 residences
- East Side – 80 unincorporated residences
- Lake Quality Improvement Committee (LQIC) east and west side residents
- Active recreational lake
- Public access at State boat launch
- No internal combustion motors permitted
- Mesotrophic (moderate biological productivity)



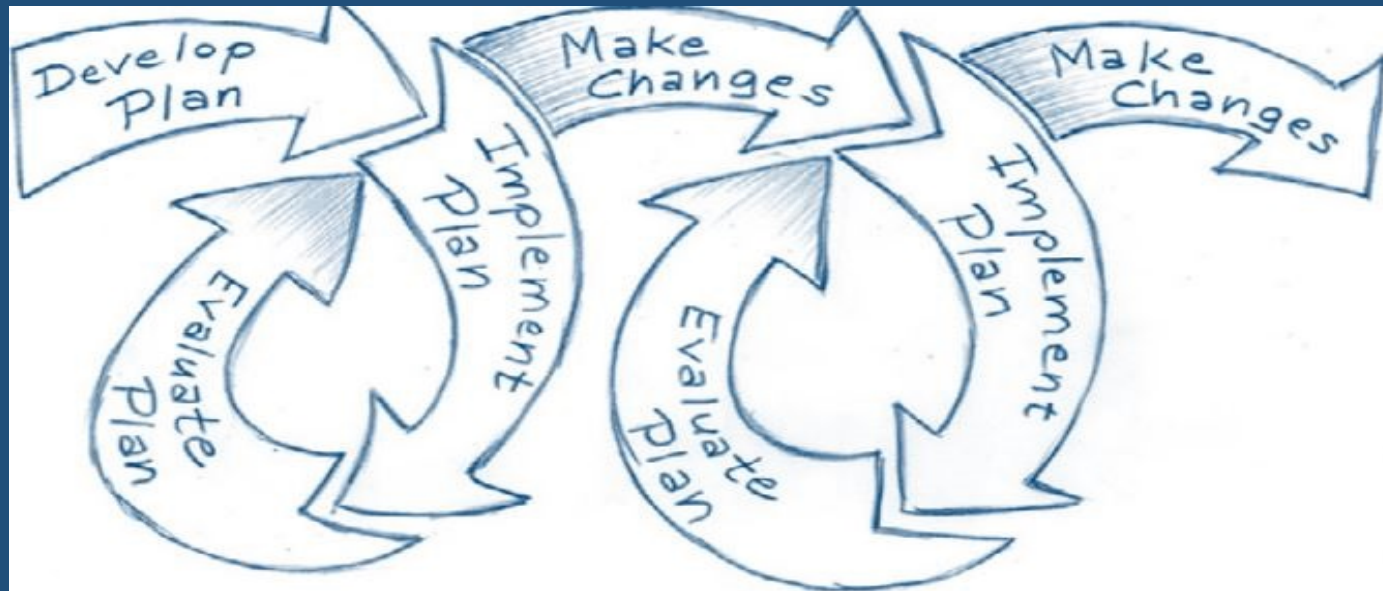
# Why does Lake Hayward need a LWMP?

- Protect and maintain water quality
- Prioritize resources
- Coordinate on-going efforts
- Document actions
- Support funding requests



# LWMP strengths and weaknesses

Successful Plans	Unsuccessful Plans
Bring stakeholders together	Technical analysis with little local involvement
Utilize existing information	Actions items that can not be completed based on available resources
Continued involvement through implementation	Lack of continued involvement from Plan Team
Iterative review and revision of goals	No review of success or Plan direction



# Project Goals

- Start the LWMP process
- Engage with non resident and resident stakeholders
- Identify areas to be included in the Plan
- Develop the next steps for Plan development





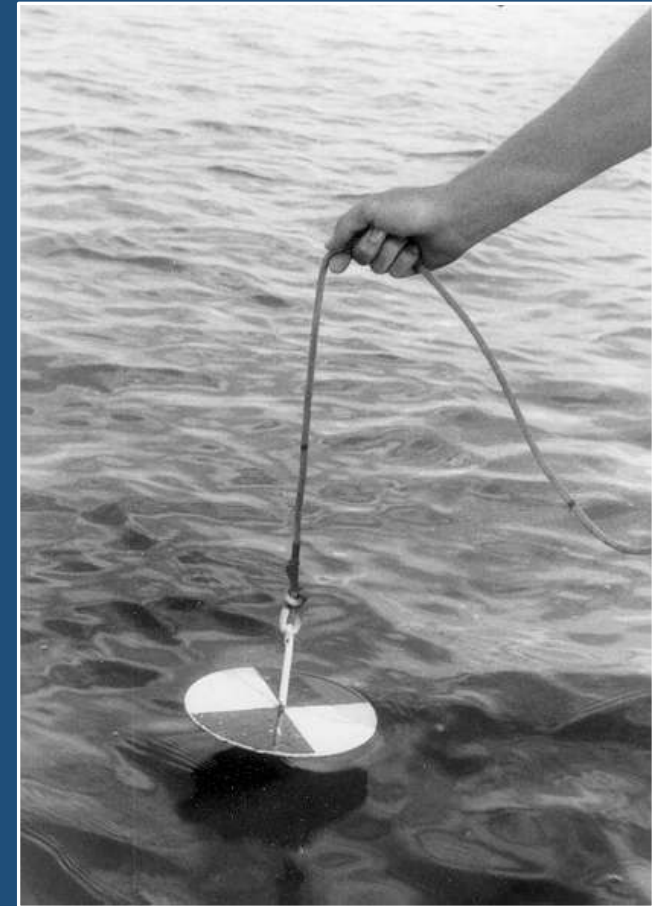
# Lake Water Quality Monitoring & Restoration

## Monitoring

- Native and invasive aquatic plants
- Water Clarity
- Cyanobacteria
- E.coli
- Phosphorus (eff. 2015)

## Restoration

- Herbicide treatment of invasives
- Suction dredge project (2014)



# Education

- Workshops
- Newsletters
- Award-winning demonstration riparian buffer
- Website
- Pamphlets



# THREATS



- Impervious surfaces
- Insufficient riparian buffers / Suburban lawns / Insufficient tree cover
- Lack of knowledge of property owners / Inadequate septic systems and maintenance
- Habitat fragmentation
- Insufficient boating regulation enforcement and State boat launch monitoring
- Invasive aquatic species
- Nonpoint source pollution
- Poor stormwater management / Catch basin failure

# Aquatic Invasive Plants

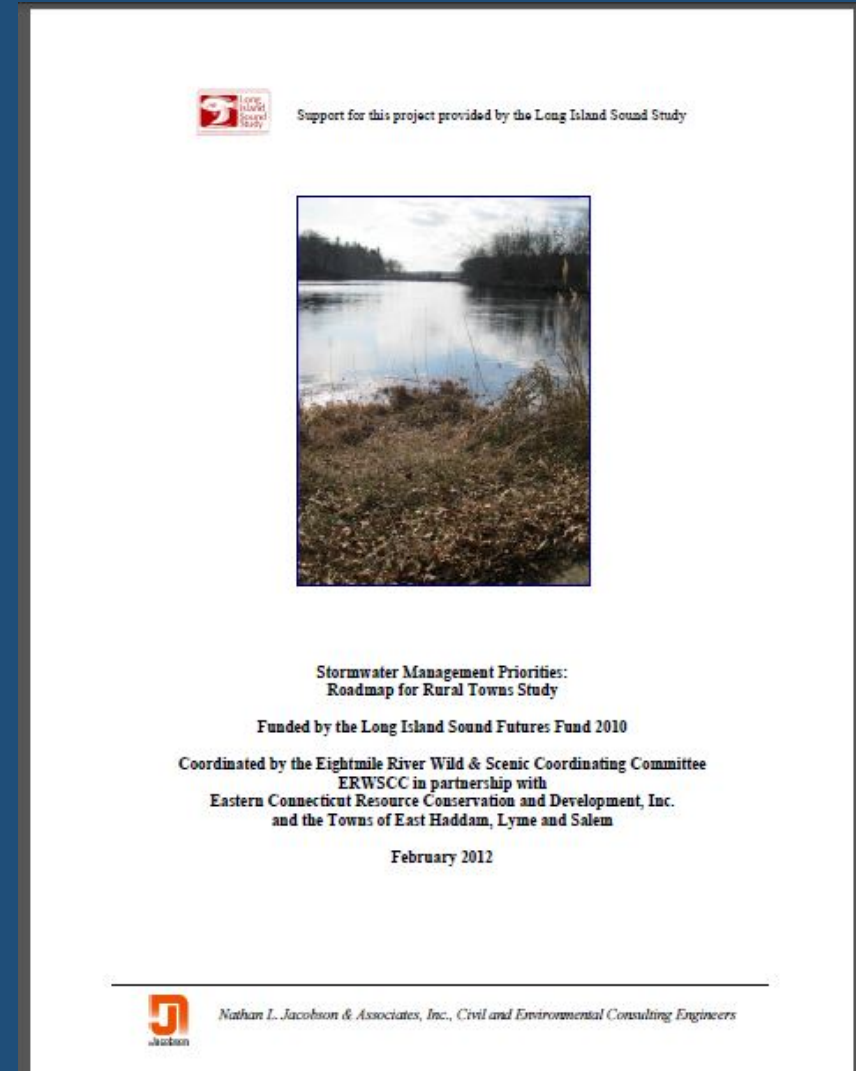
- POALH has worked with Aquatic Control Technology since 2003 for control of fanwort (*Cabomba caroliniana*) and variable leaf milfoil (*Myriophyllum heterophyllum*) through herbicide applications
- Entry point for invasives: unmonitored public boat launch



Fanwort

# Stormwater

- Three Lake Hayward stormwater outfalls are in the top 6 “really bad” list for East Haddam, per Regional study (LISS)
- More detailed assessment of these sites
- Colchester not included in LISS
- Street sweeping/Catch basin cleanout
- Road salt



# Stormwater



Outfall Priority No. 2 - Outfall No. 60

Southerly Outfall Proximal to Lake Hayward Pavilion - Pipe, Severe Sedimentation

Recommendations: Provide Upgradient Hydrodynamic Separators and Pipe to Allow for Free Discharge Conditions

Pre-Schematic Order of Magnitude Construction Cost Range: \$50,000 to \$75,000

# Stormwater



Outfall Priority No. 5 - Outfall No. 59

Northerly Outfall Proximal to Lake Hayward Pavilion - Pipe, Severe Sedimentation

Recommendations: Provide Upgradient Hydrodynamic Separators and Pipe to Allow for Free Discharge Conditions

Pre-Schematic Order of Magnitude Construction Cost Range: \$25,000 to \$50,000

# Stormwater



Outfall Priority No. 6 - Outfall No. 77

Outfall on Southwesterly Shore of Lake Hayward - Large Impervious Area, Sedimentation

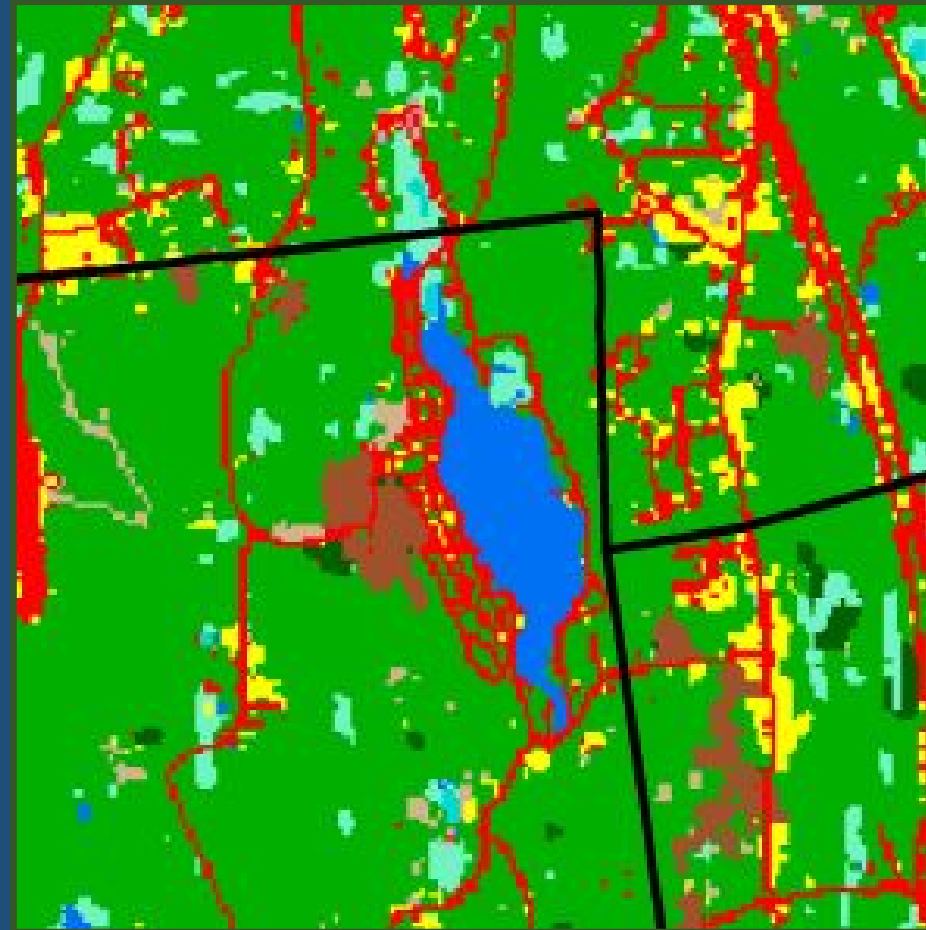
Recommendations: Provide Hydrodynamic Separator

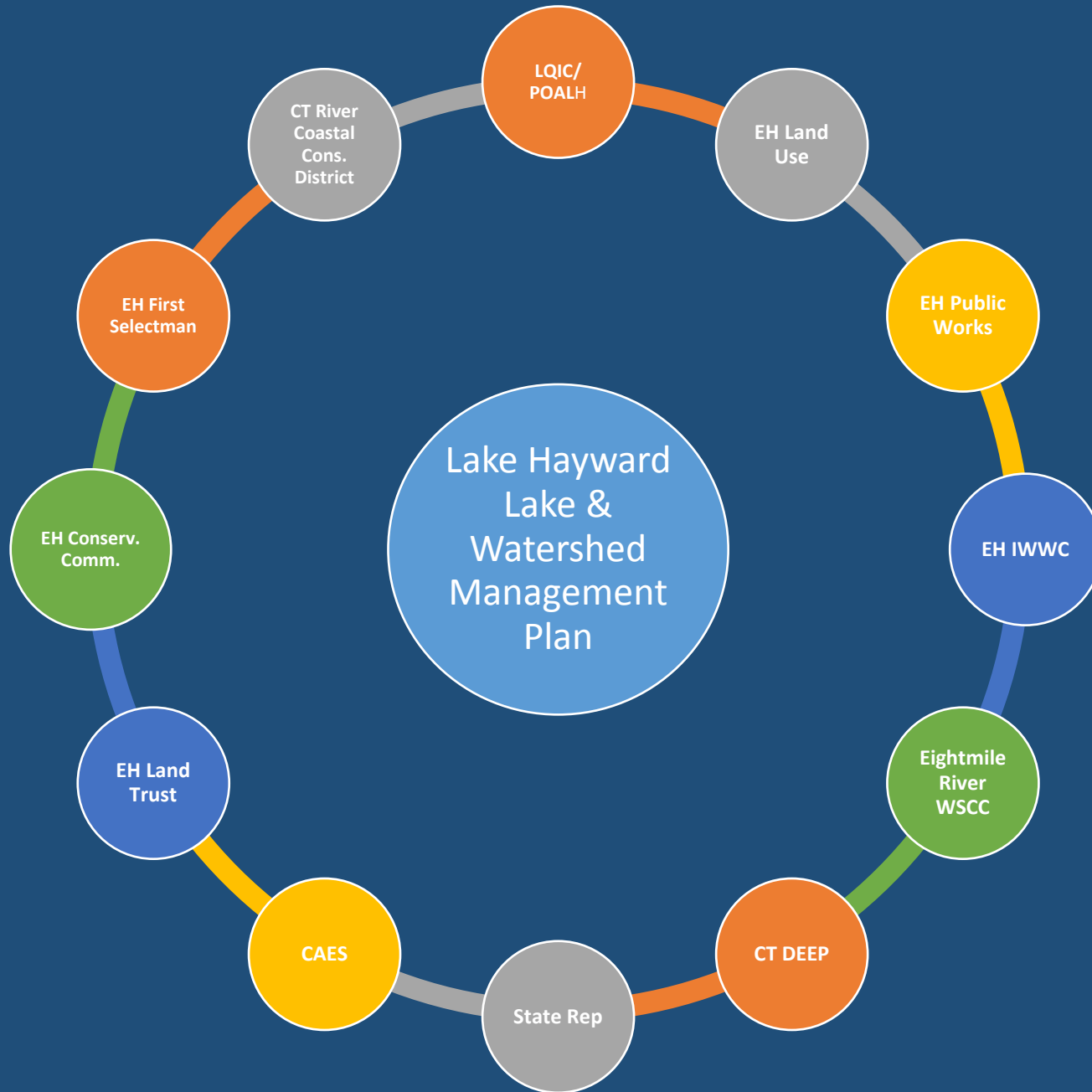
Pre-Schematic Order of Magnitude Construction Cost Range: \$10,000 to \$20,000



# Watershed Land Use

- Forest cover
- Conservation
- Agriculture





# Stakeholders' Discussion

- Threats overlooked?
- Suggested watershed plan goals
- How can we work together?

*If you had a blank check,  
what would you do?*

# Next Steps

- CME will continue to work with LQIC to develop a Plan outline
- LQIC will seek additional assessment and improvements to priority drainage outfalls (coordination with East Haddam)
- LQIC will expand Plan elements with stakeholders and possibly hire additional technical assistance
- Please contact LQIC with additional ideas and information:  
Randy Miller at [rm.ehla@yahoo.com](mailto:rm.ehla@yahoo.com)

# Thank You!

UNLESS someone like you  
cares a whole awful lot,  
nothing is going to get better.  
It's not. —*The Lorax*





