

# Pier 5 Redevelopment

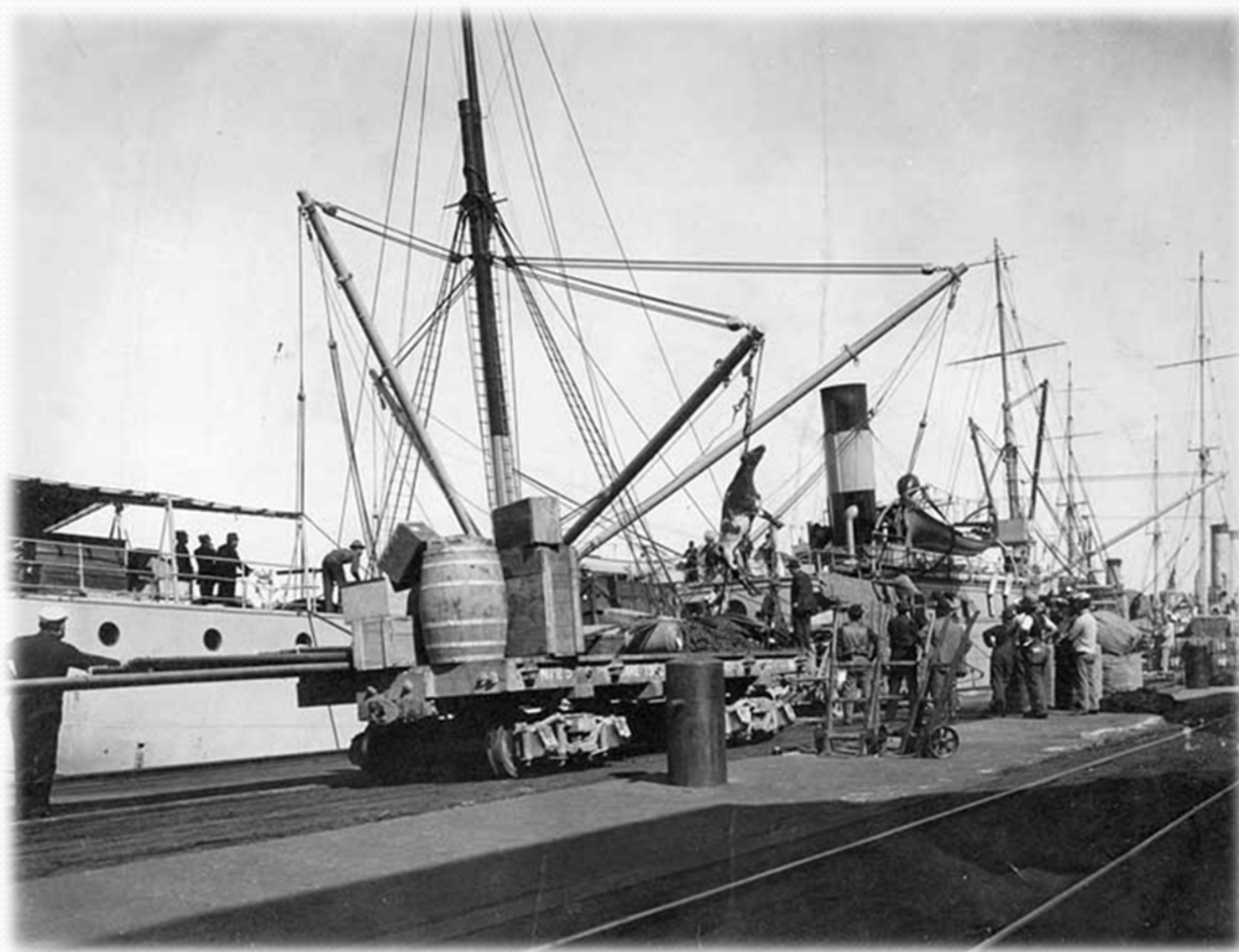
Charlestown Navy Yard



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Source: [www.dd793.org](http://www.dd793.org)



Source: [history.navy.mil](http://history.navy.mil)

# Current Conditions



# Redevelopment Problems

- Has not been touched since 1971
- Stringent zoning laws and other regulations make development difficult
- Very high cost for removal & rebuilding



Source: [wordpress.org](http://wordpress.org)



# Promoting Awareness

- From afar, Pier does not seem as bad as it is
- Organizing events to gain attention
- Public awareness = public funding

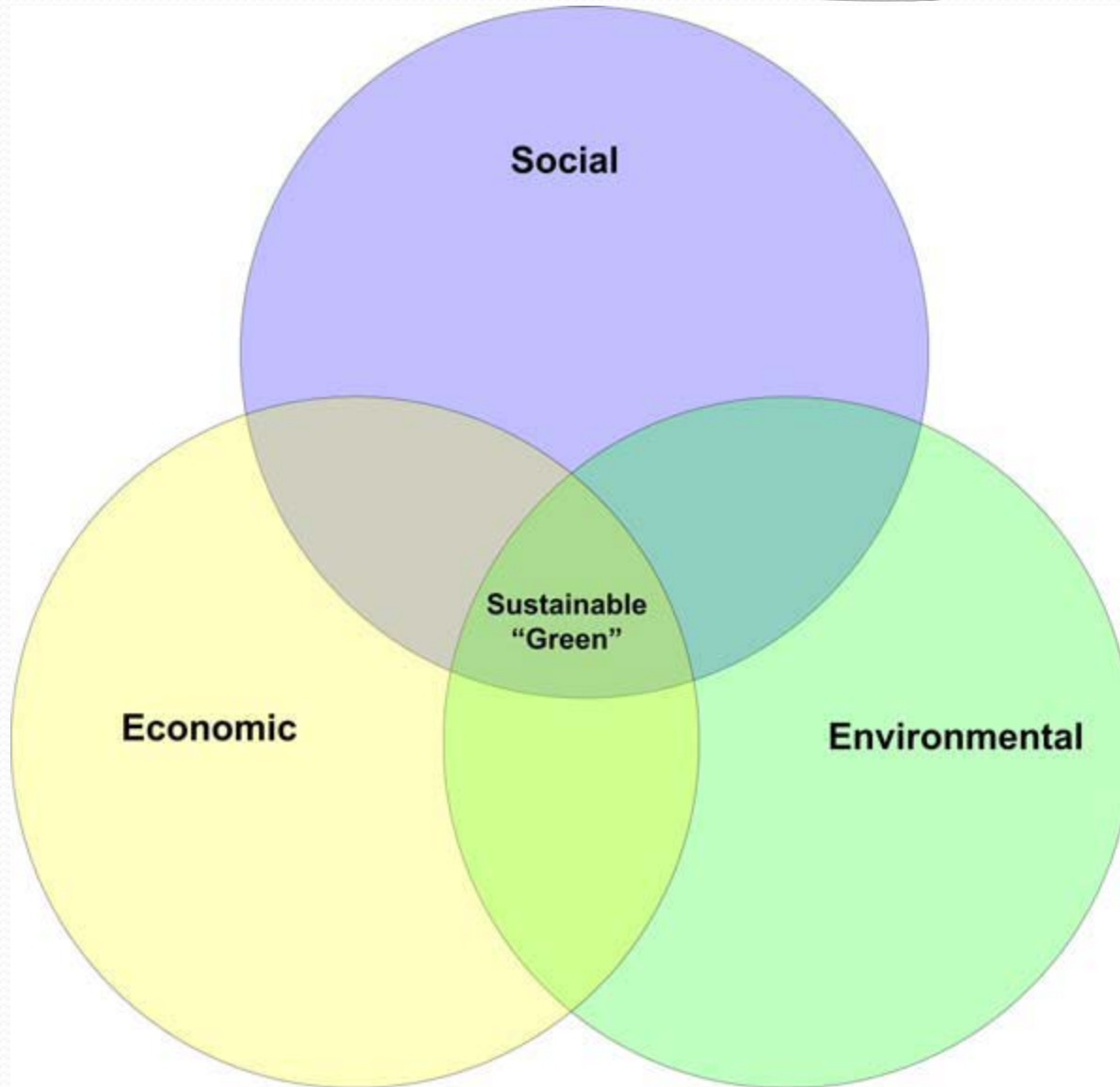








Source: [Westpier.co.uk](http://Westpier.co.uk)

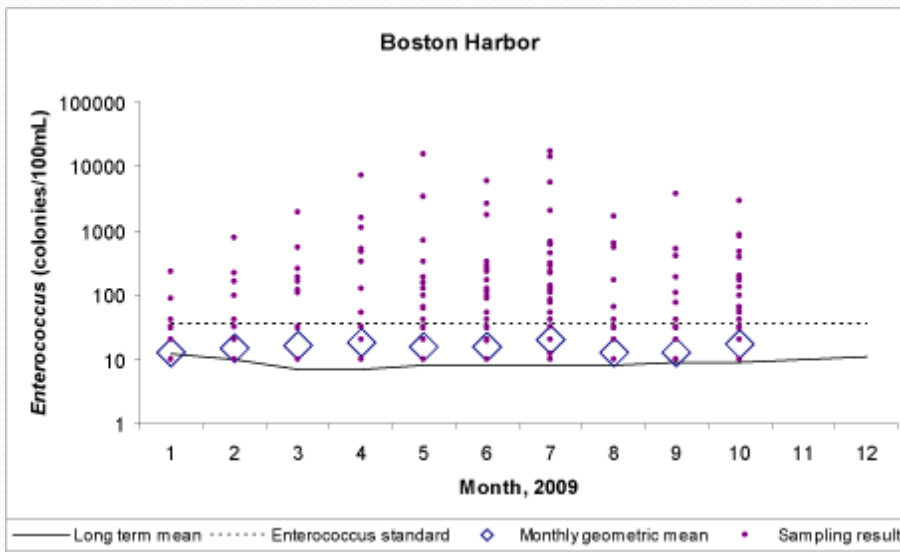


**Key Elements of Sustainability**

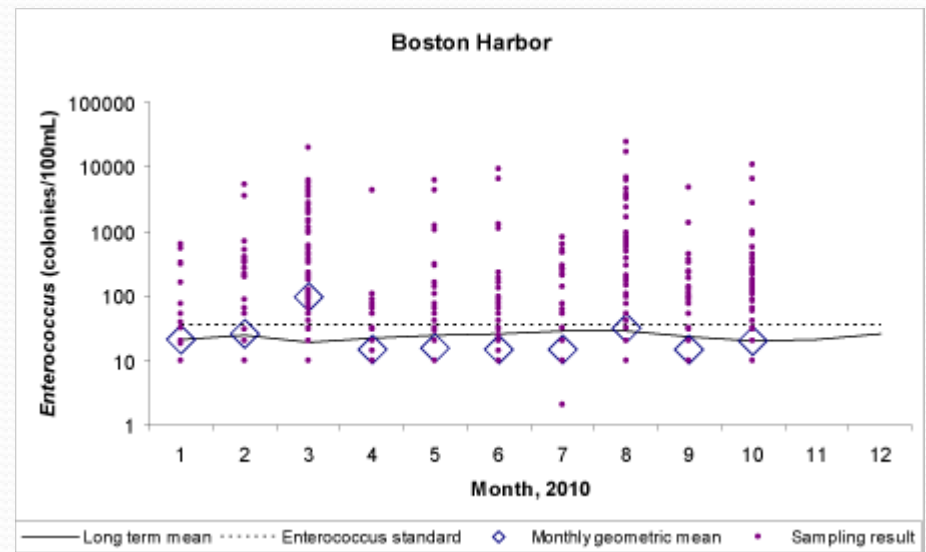
Source: burnsmcd.com

# Boston Harbor Contaminants

2009

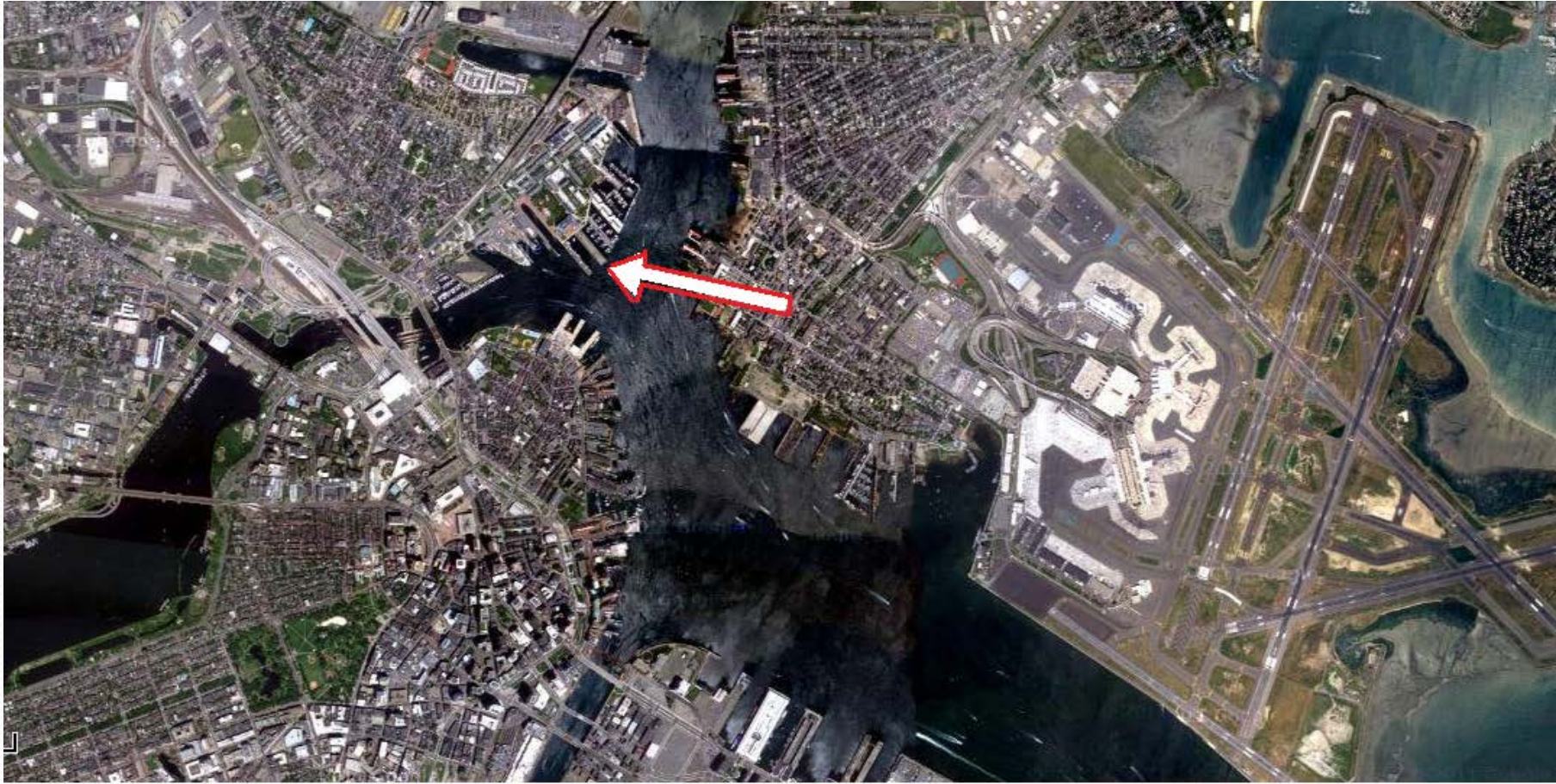


2010



• (Source: [mwra.state.ma.us](http://mwra.state.ma.us))

CSO drainage and runoff from Charles, Neponset & Mystic River flow directly into harbor



Source: Google Maps





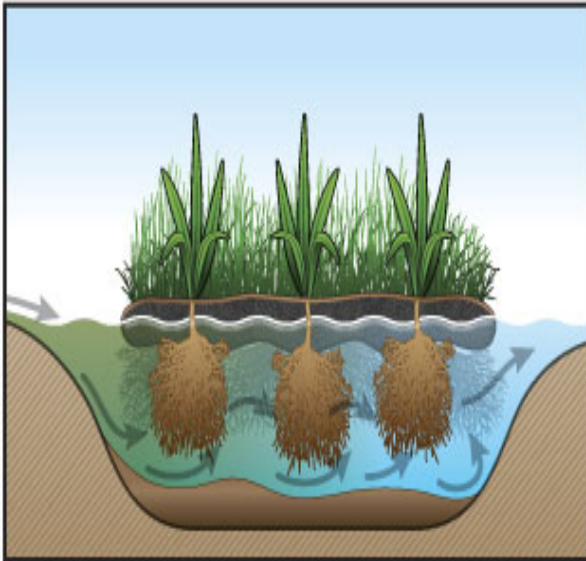
# Floating wetland in Communipaw Cove, New York Harbor

Source: Cooper.edu



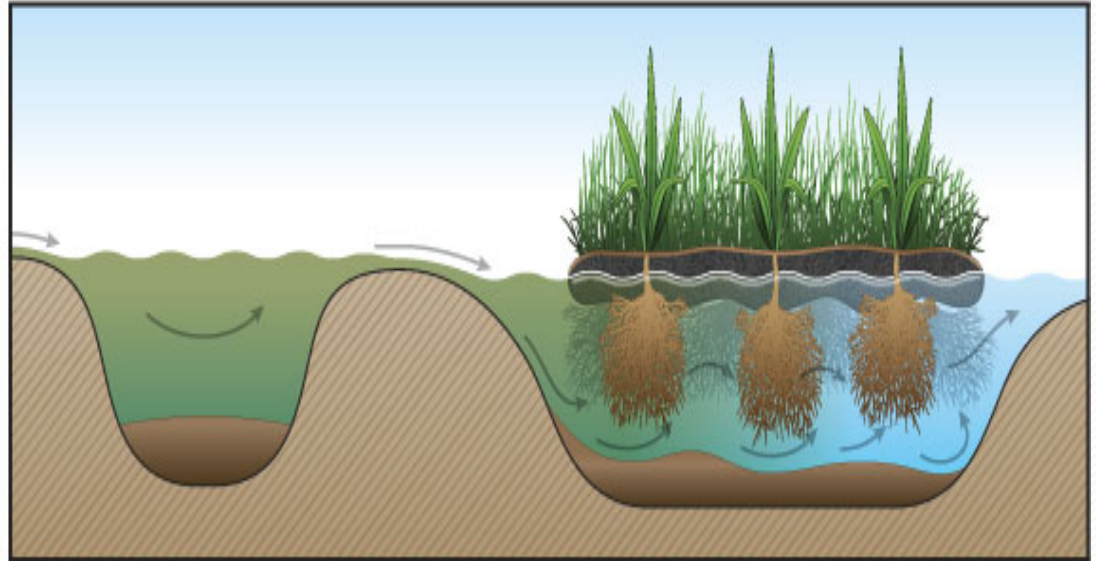
Wetlands and Salt Marshes will purify water by absorbing contamination through root systems

*Host pond with FTW Island*



*The two key factors to mimicking the Wetland Effect are circulation and surface area, both of which are eco-orchestrated with BioHaven FTWs.*

*Host pond with FTW Island connected to an optional Sedimentation Basin*



OPTIONAL SEDIMENTATION BASIN  
(coarse sediment removal)

FLOATING TREATMENT WETLAND  
(removal of fine particulates, metals, denitrification)

Source:([floatingislandinternational.com](http://floatingislandinternational.com))



# Wet-Lab Implementation

- Allows for consistent monitoring of contamination levels
- Promotes educational opportunity and community awareness
- “Green” Technology utilized for environment & to reduce costs



Source: [ecosalon.com](http://ecosalon.com)

# Clean Harbors!



Source: [wreporter.com](http://wreporter.com)

# Work Cited

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# Acknowledgments

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