

Education on Pollution in Salisbury Pond

Isabela Chachapoyas Ortiz, Adam Desveaux, Matthew Gulbin Advisors: Marja Bakermans, David Spanagel PLA: Kristen Chan

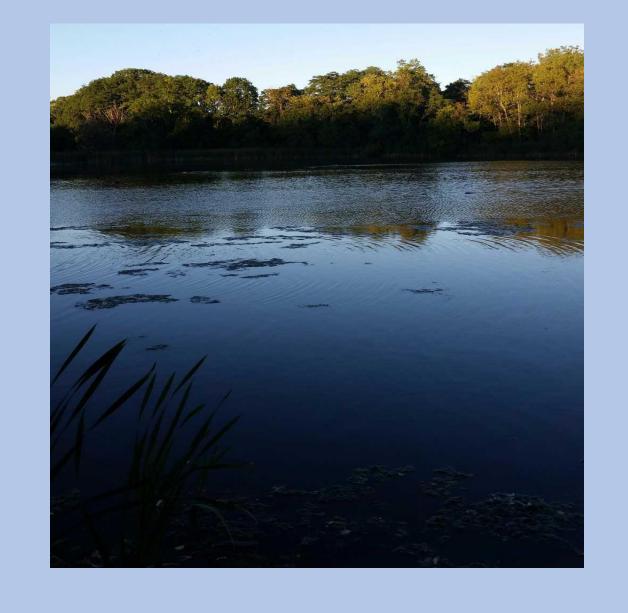


The Problem

Ecosystems in bodies of water such as Salisbury Pond are being damaged by pollutants and sediment buildup, causing extirpation of species in certain regions.

Background

Salisbury Pond in Institute Park, adjacent to the WPI campus, is an important contribution to the wildlife presence and the aesthetic of this part of the city. Sediment has built up at the bottom of the pond over past years, leading to an average depth of just 3 feet.



Salisbury Pond in Institute Park-Worcester, MA

Project Goals

- Educating WPI students on the condition of the pond and how it affects species
- Determining the best solution to remove contaminated sediment from the pond

Dredging Steps to Success:

Set up dredging equipment



Remove the

polluted

sediment



Dispose of contaminated sediment safely

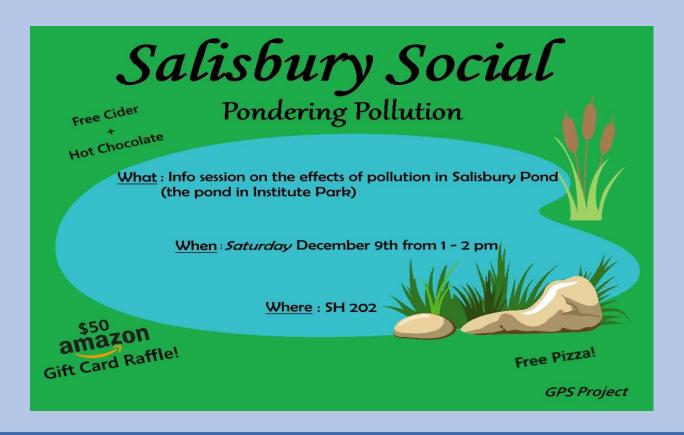


Monitor the effects on the pond afterwards



Salisbury Social

- Event hosted at WPI to educate the community
- Presentation about the sediment buildup and its effects on the environment
- Refreshments and raffle for attendees
- ❖ December 9, 2017



Pollution Consequences

- Sediment build-up and pesticides affect the biodiversity and health of the pond
 - > Sediment in pond is filled with contaminants that can be released in water
- Effects of pesticides
 - Over-growth of plants decreases oxygen levels which affects fish
 - > Healthy plants can be affected by other invasive species that are flourishing from proteins

Acknowledgements

We would like to thank Professors Marja Bakermans and David Spanagel for helping us throughout the project, and Kristen Chan, our PLA. Additionally, we would like to thank Paul Levenson, Executive Director of the Friends of Institute Park, and Professors Joseph Cullon, Leonard D. Albano, and Paul P. Mathisen for their valuable contributions of research and

References