

TLA 2017 Report

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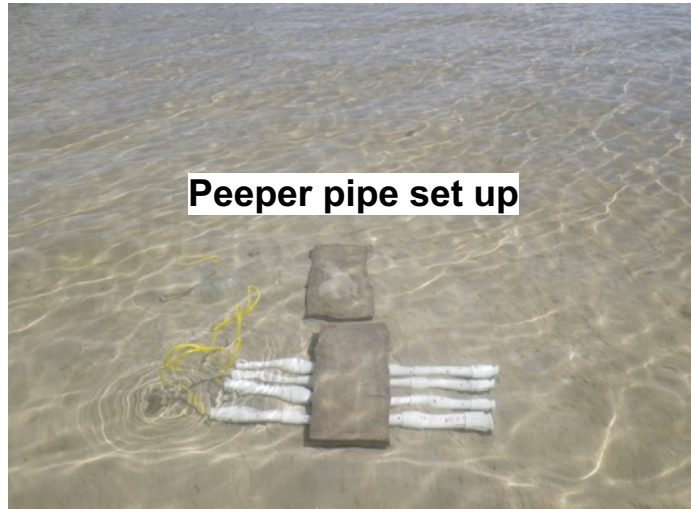


Peeper Pilot Study

- Phosphorus Testing
- Levels seemed to continue to increase by the end of study
- May correlate to amount of brown algae



**Baggie with
deionized
water**



Peeper pipe set up



**Snail eggs
found on lake
floor**

Sandbar Study

- 3 Sites
- 3 Samples per site
- Questionable data on July 10
- High Values at Division St. and Lake St.



Collection Materials

	<u>Sample Type</u>	6/26/2017	7/03/2017	7/10/2017
Torch River	Nitrogen	0.21 mg/L	0.21 mg/L	0.31 mg/L
	E-Coli Average	1 Colonies/100 mL	1.3 Colonies/100 mL	1.3 Colonies/100 mL
Lake St. P.A.	Nitrogen	0.20 mg/L	0.21 mg/L	0.30 mg/L
	E-Coli Average	19 Colonies/100 mL	5 Colonies/100 mL	38 Colonies/100 mL
Division St. P.A.	Nitrogen	0.19 mg/L	0.18 mg/L	0.30 mg/L
	E-Coli Average	15 Colonies/100 mL	24 Colonies/100 mL	166 Colonies/100 mL

Dog Sniffing

Date	Location	Sewage Presence (Y/N)
June, 26 2017	Torch River	1 Yes/ 1 No
	Lake St. P.A.	2 Yes
	Division St. P.A.	1 Yes/ 1 No
July, 3 2017	Torch River	2 Yes
	Lake St. P.A.	2 Yes
	Division St. P.A.	2 Yes
July, 10 2017	Torch River	2 No
	Lake St. P.A.	2 No
	Division St. P.A.	2 No

Cladophora Shoreline Survey

- Drone Flight
- No confirmed significant patches found
- 20 sites in 2010
- Blocks sunlight
- Causes Eutrophication



Floating in lake



On shoreline



On lake floor

Drone Flight



Areas Surveyed



Stream Monitoring for E-Coli

- Monitored 26 sites
- Tested for e-coli
- Large range of concentrations (1-816 Colonies/100 mL)
- Concentration of 300 = closed beach

Resa

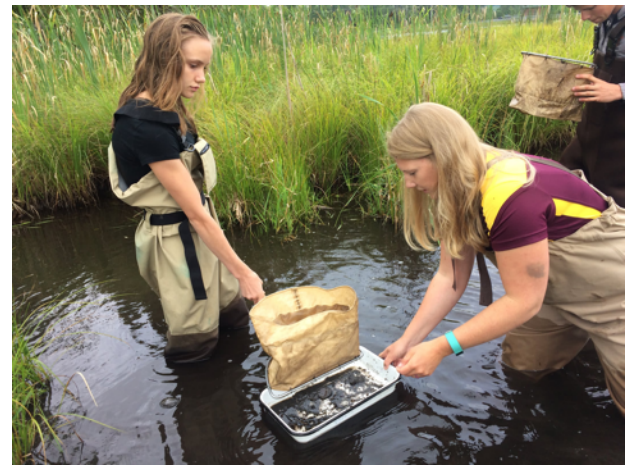
Date Sampled	6187 NWTLD	6049 NWTLD
7/17/17	548 Colonies/100 mL	816 Colonies/100 mL
8/25/17	285 Colonies/100 mL	56 Colonies/100 mL

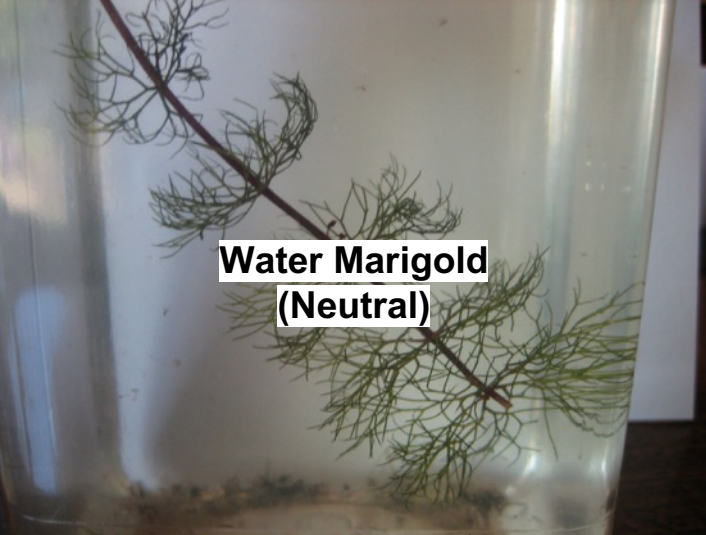
Macroinvertebrates Training Session

- Learned to identify macroinvertebrates
- Water Sampling Instrument

Dissolved Oxygen, pH, Turbidity, Conductivity

Depth, and temperature





Water Marigold
(Neutral)



Wild Celery
(Beneficial)



**Native
Milfoil**
(Neutral)



**Bushy
Pondweed**
(Beneficial)



Eurasian Milfoil
(Nuisance)



Waterweed
(Beneficial)

Thanks for Watching!