

Lower Muskegon River Habitat Restoration Project: Pre-Restoration Monitoring

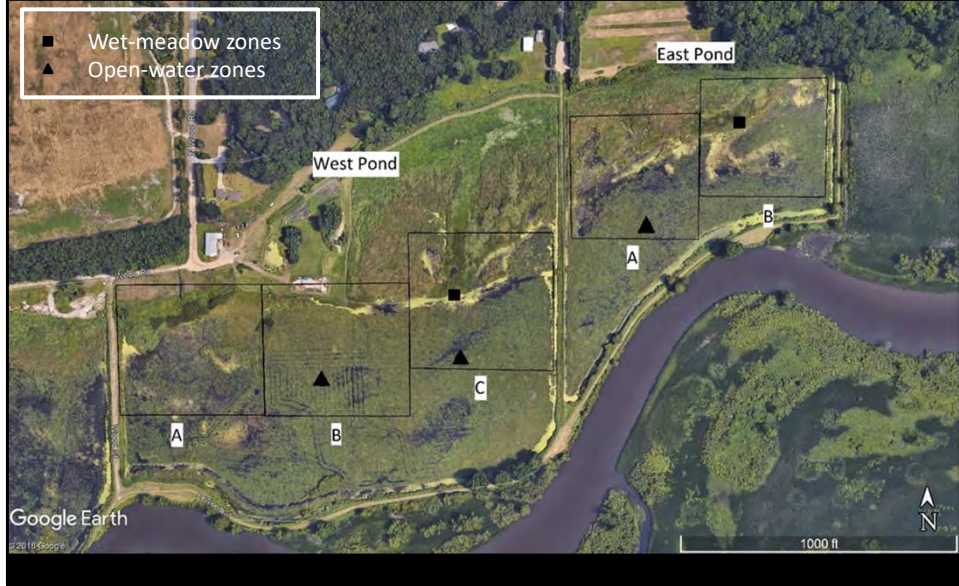
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Overall Project Goal

- Assess effects of habitat restoration on fish, invertebrates, and water quality

Study Design





Fish Sampling



- 3 fyke nets/zone
- Only open-water zone

Invertebrate Sampling

- D-frame nets (semi-quantitative)
- 3 replicates/zone
- Sampled both zones

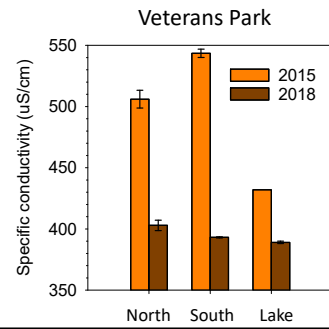


Water Quality Sampling



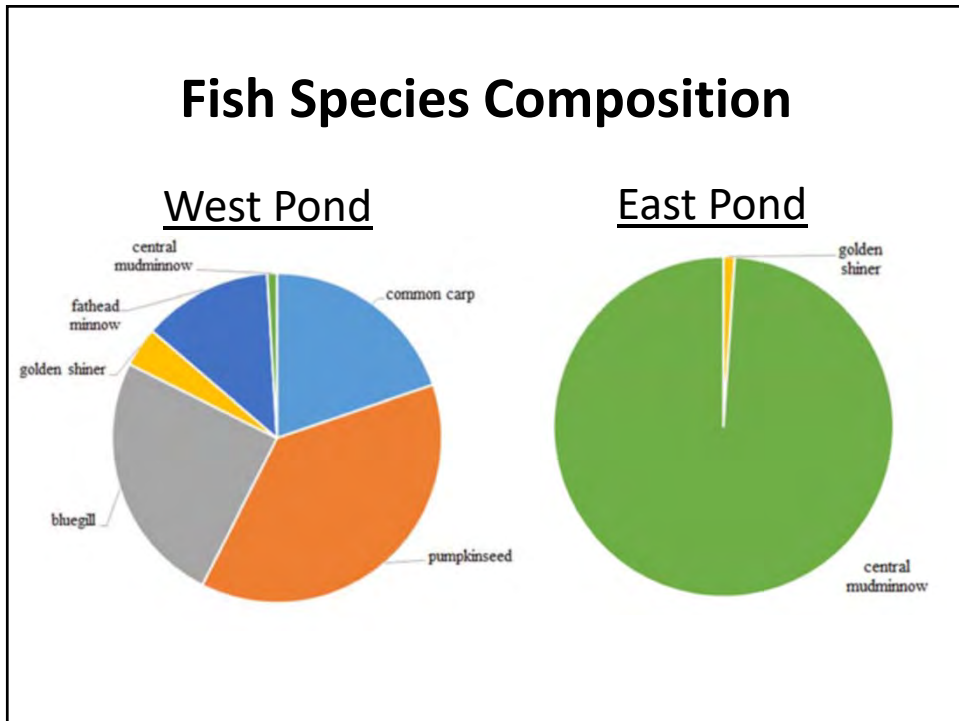
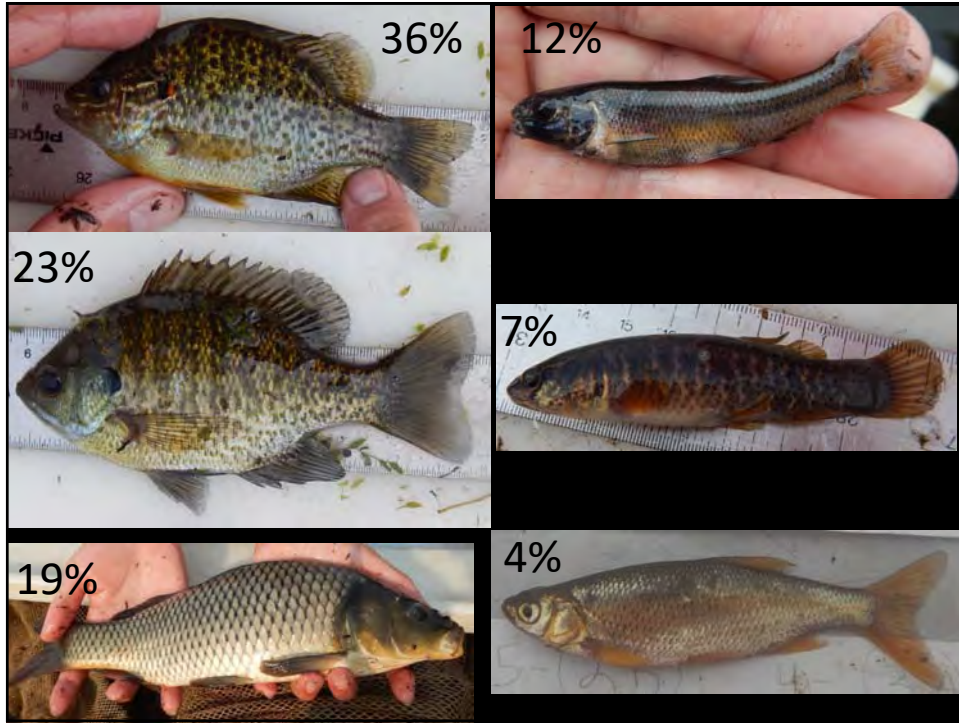
Water Quality

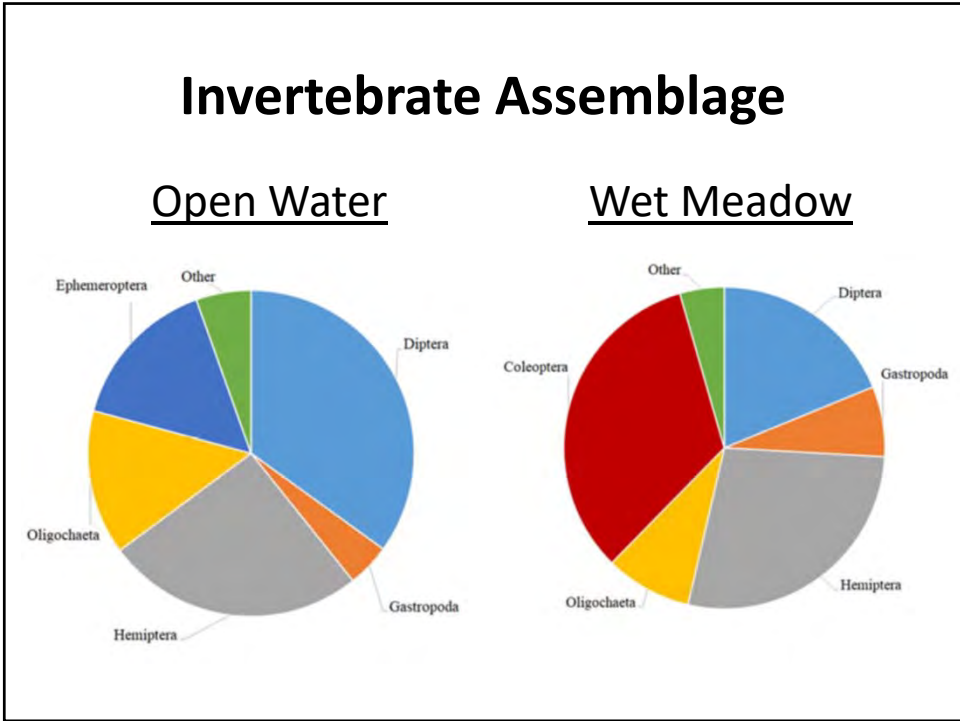
Site	Zone	Spec. Cond. (uS/cm)	DO (mg/L)
West-B	Open Water	802	3.84
West-C	Open Water	818	4.42
East-A	Open Water	753	0.45
East-B	Wet Meadow	699	0.64
West-C	Wet Meadow	806	0.60



Total Catch: Fish

- 1577 fish captured in 9 fyke nets
- 6 fish species
- Most fish < 10 cm TL





Summary & Future Directions

- Poor water quality
- Pre-restoration baseline conditions
- Conduct future post-restoration monitoring