



2025 Effectiveness Monitoring Results and Recommendations for Schaper Pond

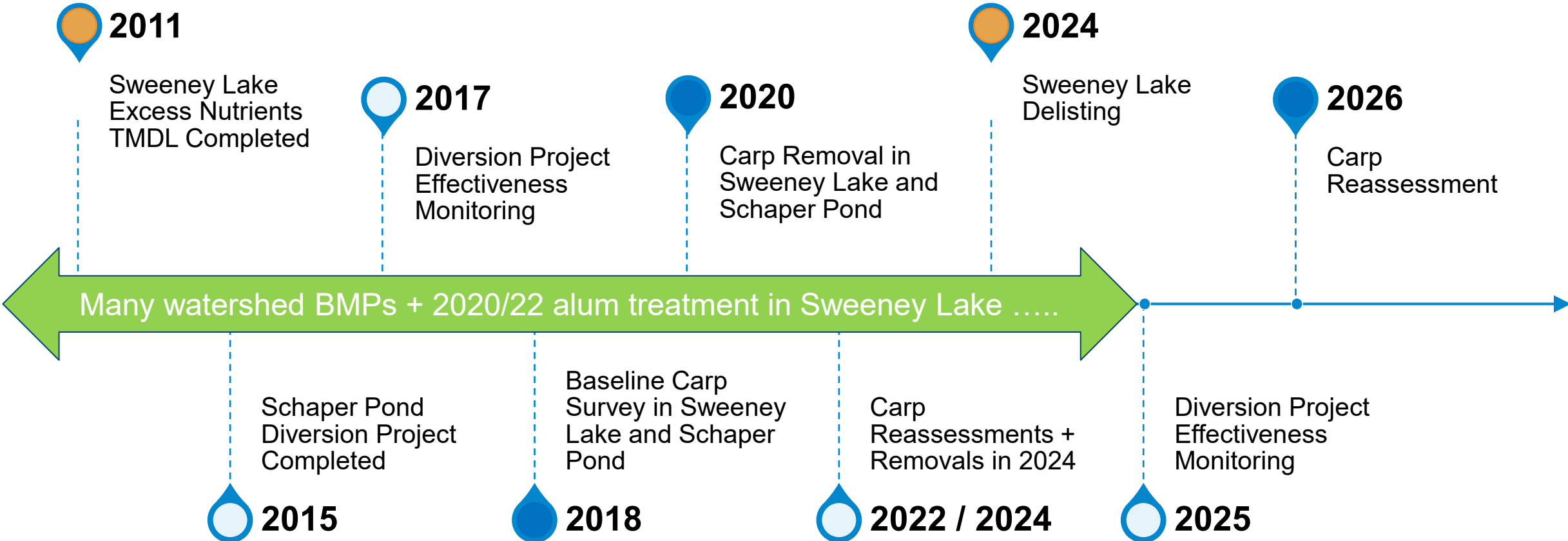


Prepared for Bassett Creek Watershed Management Commission

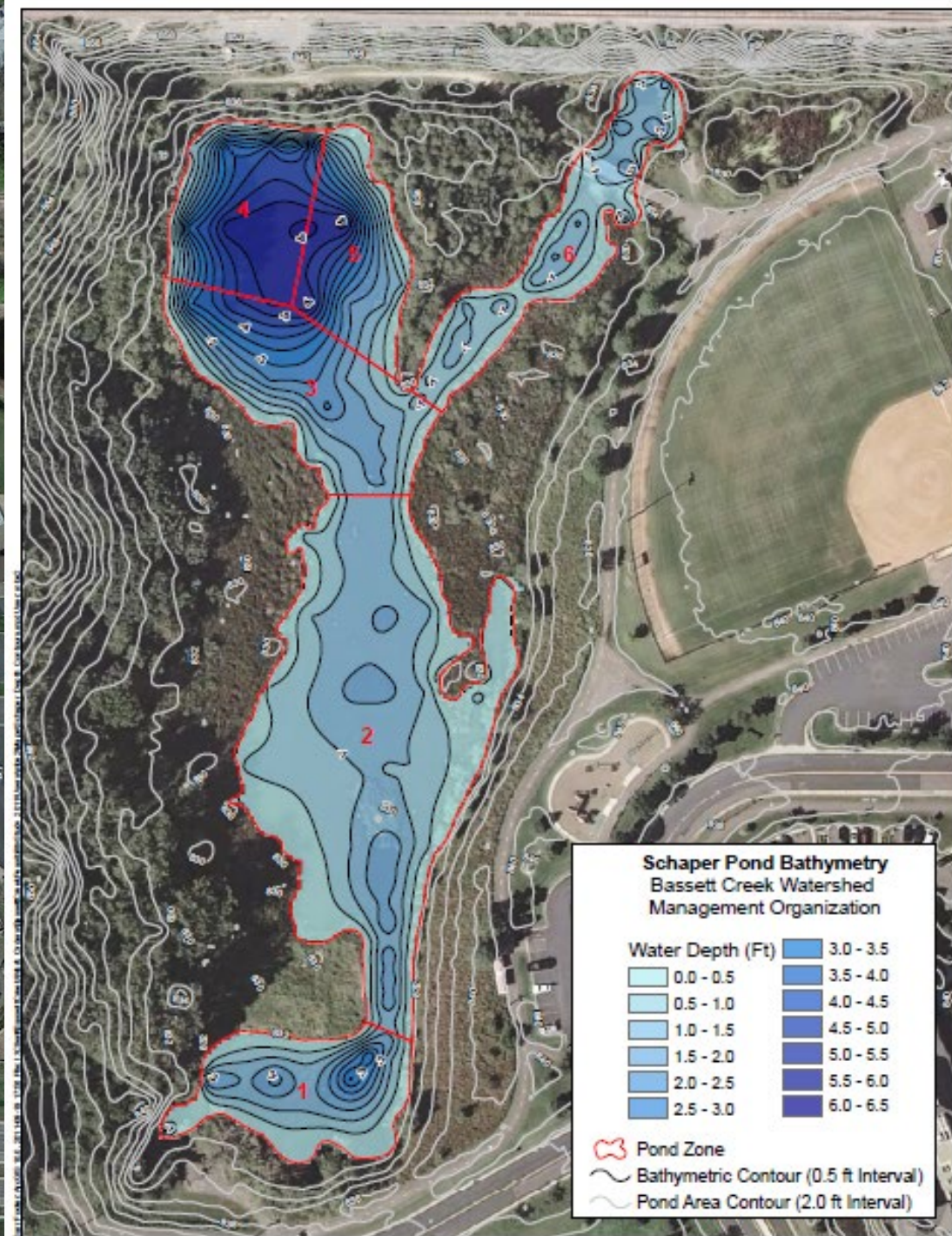
February 19, 2026



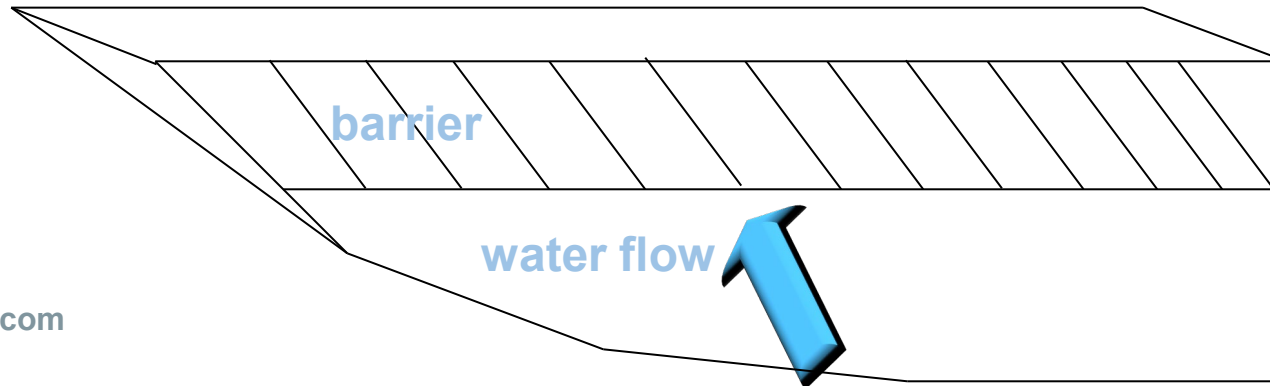
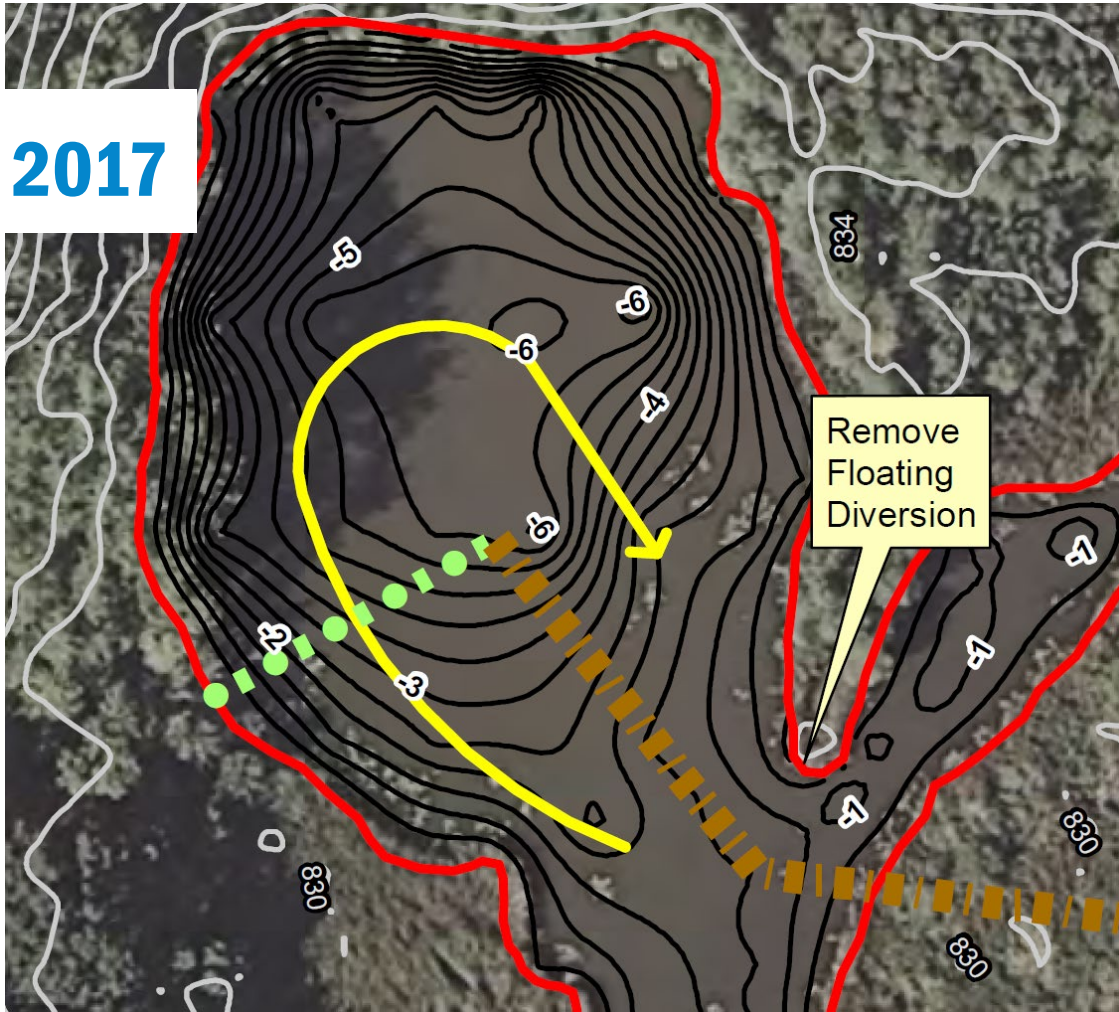
Background



2011



2015 / 2017



barr.com



● Grab Sample Locations

Feet
0 150

Figure 1
MONITORING & BAFFLE
LOCATIONS
Schaper Pond Effectiveness
Monitoring
Bassett Creek Watershed
Management Commission



Phosphorus ($\mu\text{g/L}$)



	2011	2017	2025
Railroad inlet	118	125	126
Hwy 55 inlet	142	90	138
Outlet	98	105	81



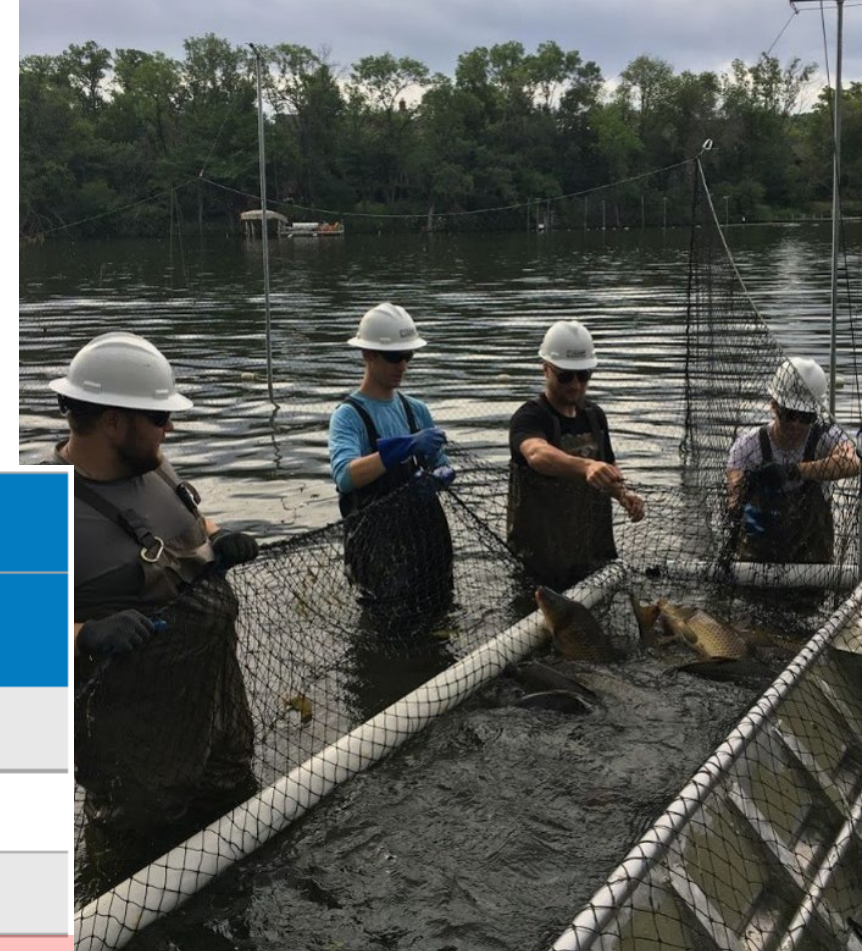
Total suspended solids (mg/L)



	2011	2017	2025
Railroad inlet	14	26	7
Hwy 55 inlet	52	22	45
Outlet	26	36	7



Carp Management Timeline



Carp Population Survey	Date	Estimated Carp Biomass (kg/ha) ¹	
		Schaper Pond	Sweeney Lake
Baseline Assessment	October 2018	420	1,030
Following Box Net Removal	Summer 2020	75	68
Re-assessment	Summer 2022	44	83
Re-assessment	Summer 2024	57	178
Following Box Net Removal	Fall 2024	57	31

¹ The water quality management threshold for carp biomass is 100 kg/ha.

Summary



Conclusions:

- Schaper Pond is removing TP and TSS significantly better and the floating water baffle is functioning as designed.
- 40% TP removal corresponds to a 109-pound load reduction, which is greater than TMDL (and project) goal of 99 pounds.

Recommendations:

- Work with Carp Solutions to complete carp biomass surveys on Schaper Pond in 2026 to confirm carp density remains below management threshold—approved January 2025.
- Work with Carp Solutions to develop cost-benefit analyses for future carp management options—add results to carp biomass survey memo.

