

The Riley Purgatory Bluff Creek Watershed District in 2013

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**Riley
Purgatory
Bluff Creek
Watershed District**

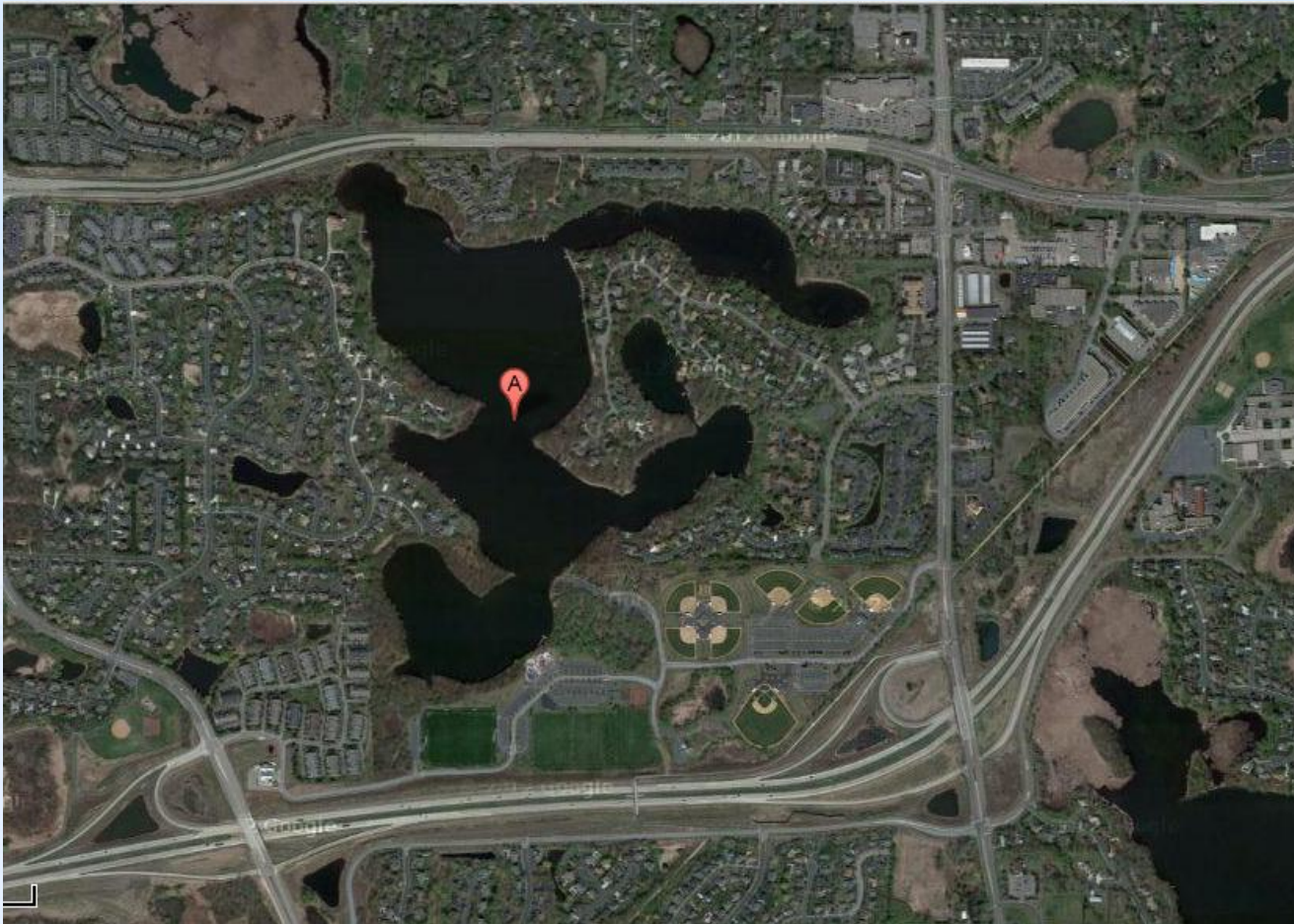
Mitchell Lake - 1967



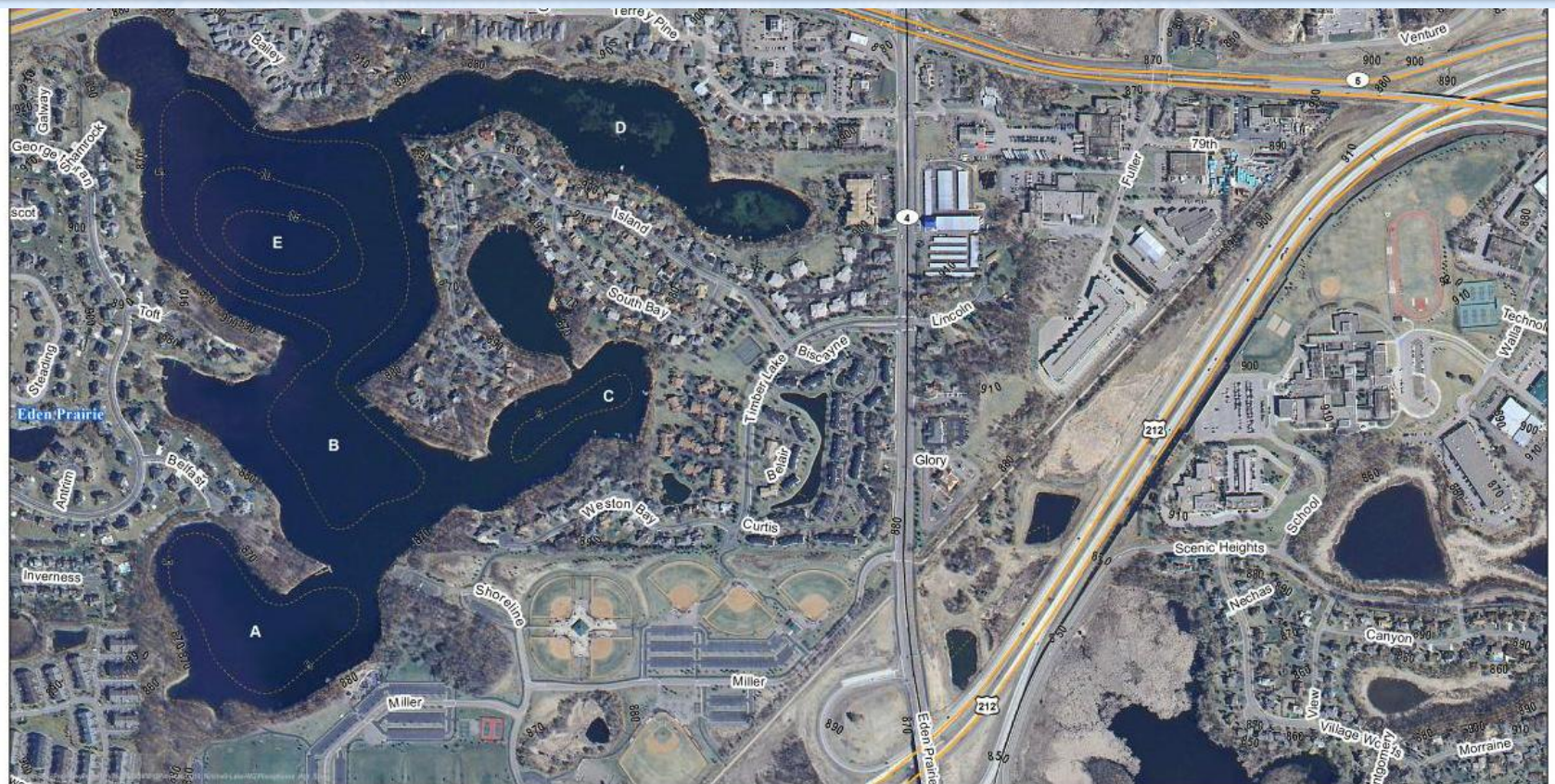
Mitchel Lake 1971



Mitchell Lake - Present



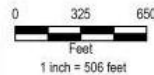
Mitchell Lake



Mitchell Lake
P-Mgmt Pilot Study

Legend

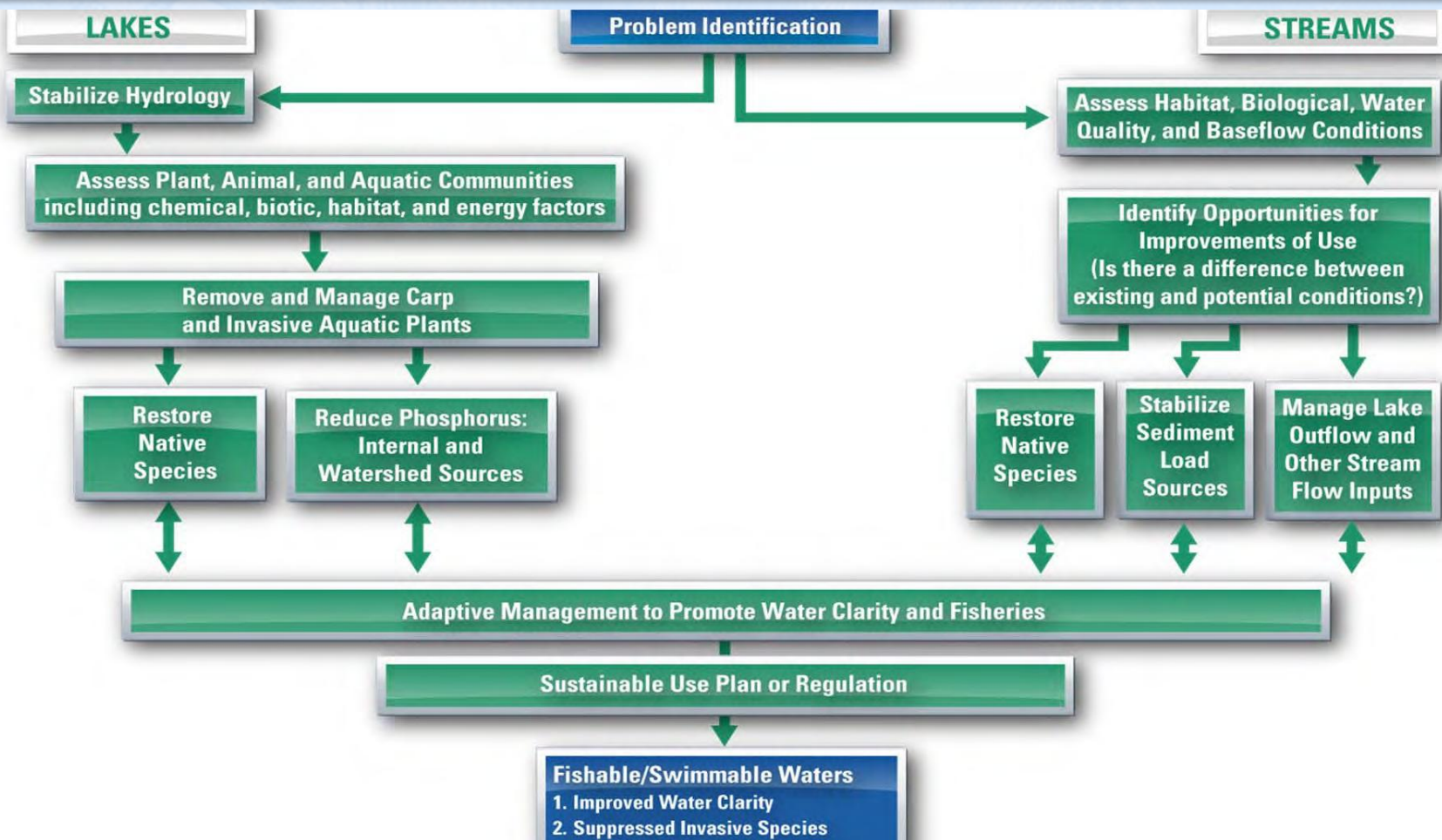
Riley Purgatory Bluff Creek
Watershed District



Snow Shading – Plant Management

- Objective:
 - Reduce phosphorus levels in the lake by minimizing the growth of curlyleaf pondweed by on-ice snow shading.
 - Help achieve a balanced native plant population
- Short-Term Goal 5
 - work to reduce phosphorus loading in the lakes
- Long-Term Goal 3
 - Preserve vegetation and habitat important to fish, waterfowl, and other wildlife

Lake and Stream Management Process



Implementation Plan Summary 2012 -2013

	2012	2013
Riley Creek One Water		
Remove and manage Carp and Invasive Aquatic Plants	U of M	U of M
Restore Native Species	U of M	U of M
Reduce Phosphorus and Manage other inputs		
Adaptive Management		
Purgatory Creek and Hyland One Water		
Assess Lake and Stream Water Quality	U of M	U of M
Remove and manage Carp and Invasive Aquatic Plants	U of M	U of M
Restore Native Species		U of M
Reduce Phosphorus and Manage other inputs		

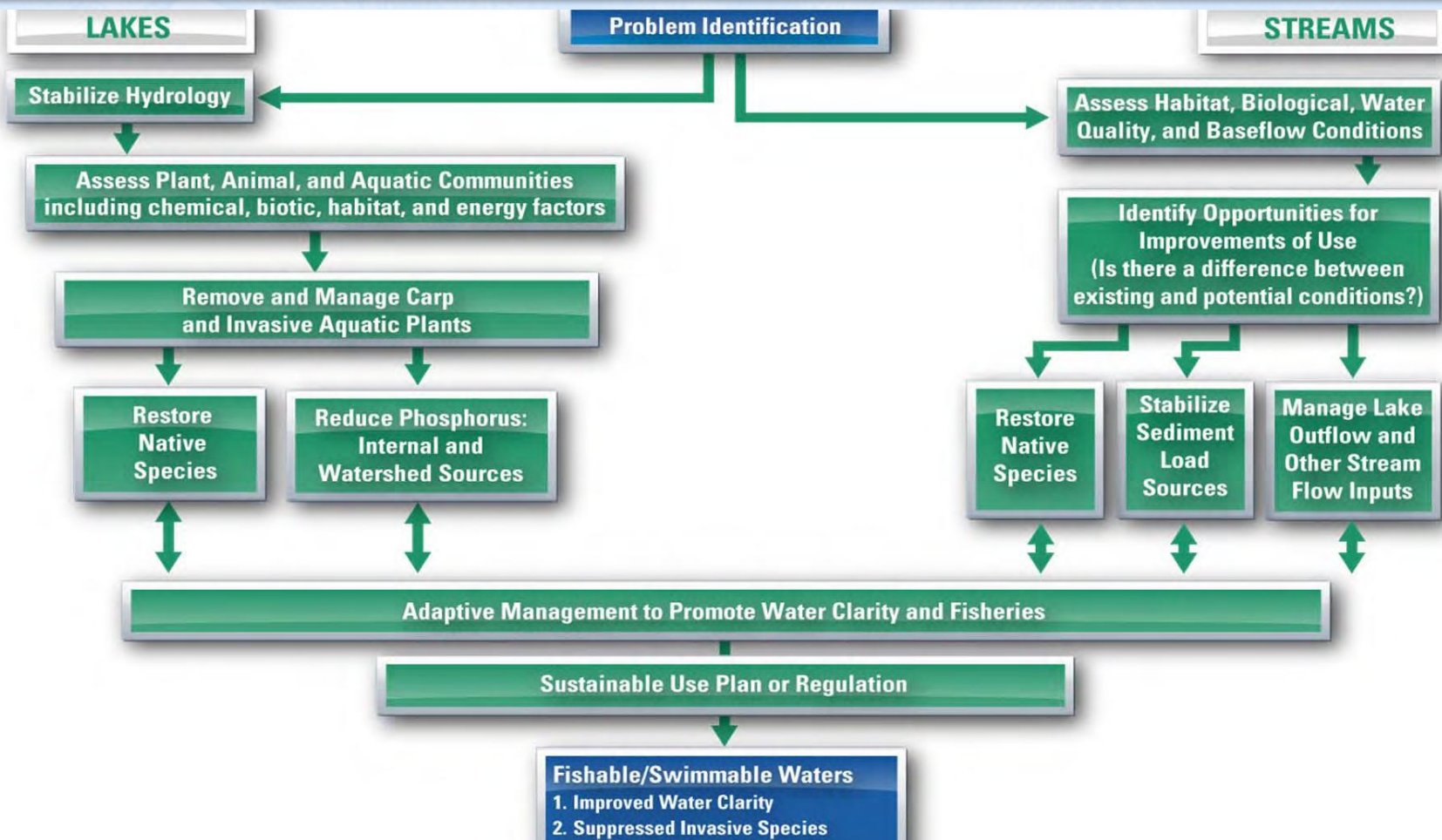
Engineering Projects

Engineering	Annual 2012 Budget	Annual 2013 Budget	General Fund Levy MNStat. Sec. 103D.905 Subd. 3	Plan & Project Levy MN Stat. Sec. 103B.241 Subd. 1
TO 16A - MDNR	\$75,000.00	\$10,000.00		
TO 34 - Lake Lucy Winter Fish Kill	\$52,730.00	\$26,000.00		\$26,000.00
TO 35 - Rice Marsh Lake Winter Fish Kill Prevention	\$22,100.00	\$22,000.00		\$22,000.00
TO 29 - Mitchell Lake Plant Management	\$25,000.00	\$22,000.00		\$22,000.00
TO - 30 Red Rock Lake Plant Management*	\$20,000.00	\$14,000.00		\$14,000.00
TO - 32 Purgatory Creek Modeling	\$75,000.00	\$75,000.00		\$75,000.00
TO 33 - Lake Susan Nutrient Reduction Project		\$28,000.00		\$20,000.00
TO 26 - Lake Susan Paleolimnological Study		\$28,000.00		\$22,500.00
TO 28 - Stormwater Basin Nutrient Reduction	\$40,000.00	\$79,000.00		\$79,000.00
TO 27 - Data Collection	\$205,995.00	\$177,000.00		\$177,000.00
TOTAL PROJECTS	\$632,132.00	\$467,500.00	\$-	\$457,500.00
TOTAL ENGINEERING	\$765,132.00	\$575,500.00	\$36,000.00	\$529,500.00

2012 Levy compared to 2013

	TOTAL 2012 BUDGET	TOTAL 2013 BUDGET
REVENUES		
General Fund Levy	\$250,000.00	\$250,000.00
Plan Implementation Levy	\$1,500,000.00	\$1,500,000.00
Basic Water Management Levy		
Repair & Maintenance Levy	\$15,000.00	\$15,000.00
Survey and Data Acquisition Levy		\$48,255.00
Insurance Levy	\$12,000.00	\$12,000.00
Interest		
Delinquent Property Tax	\$(5,000.00)	
Total Levy	\$1,772,000.00	\$1,825,255.00

Lake and Stream Management Process



Questions



Rice Marsh Lake



Exclosures on Lake Riley with clear water and coontail



Questions?

Sampling on Purgatory Creek

