

LAKE NAGAWICKA/ BARK RIVER PROTECTION PLAN OPEN HOUSE

GOALS, STRATEGIES AND COALITIONS



SEWRPC

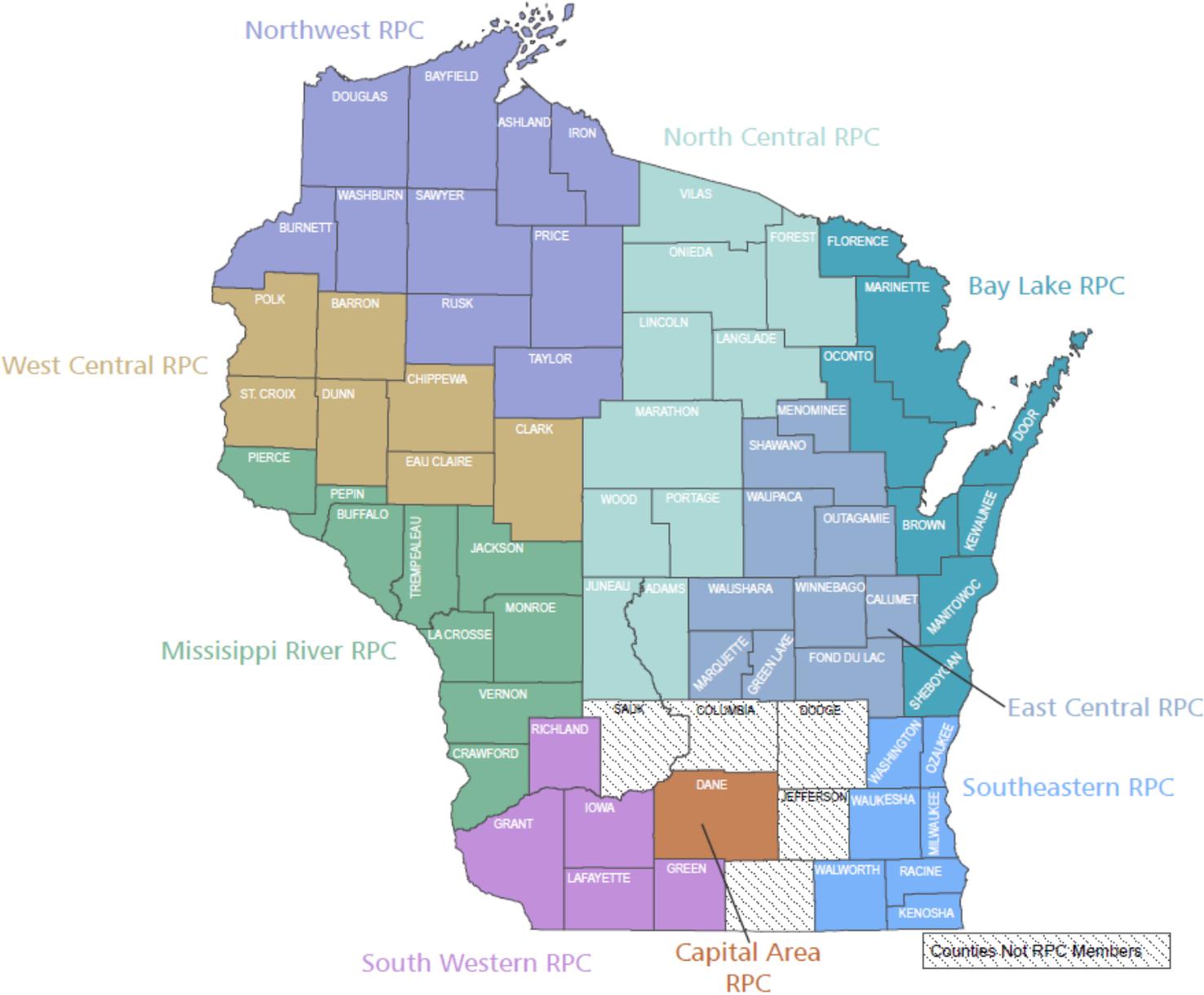
Serving the counties of
Kenosha, Milwaukee,
Ozaukee, Racine, Walworth,
Washington, and Waukesha

BASIC FUNCTIONS OF THE SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION (ESTABLISHED IN 1960)

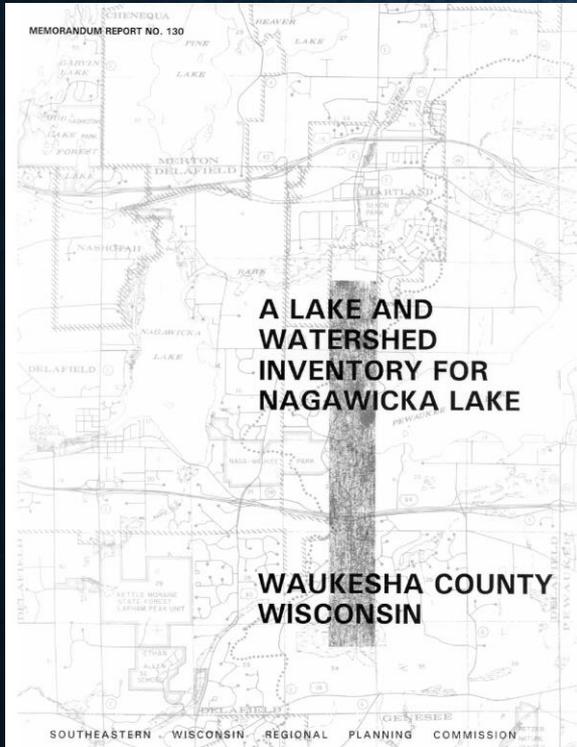
- Inventory
- Plan Preparation
- Intergovernmental Coordination



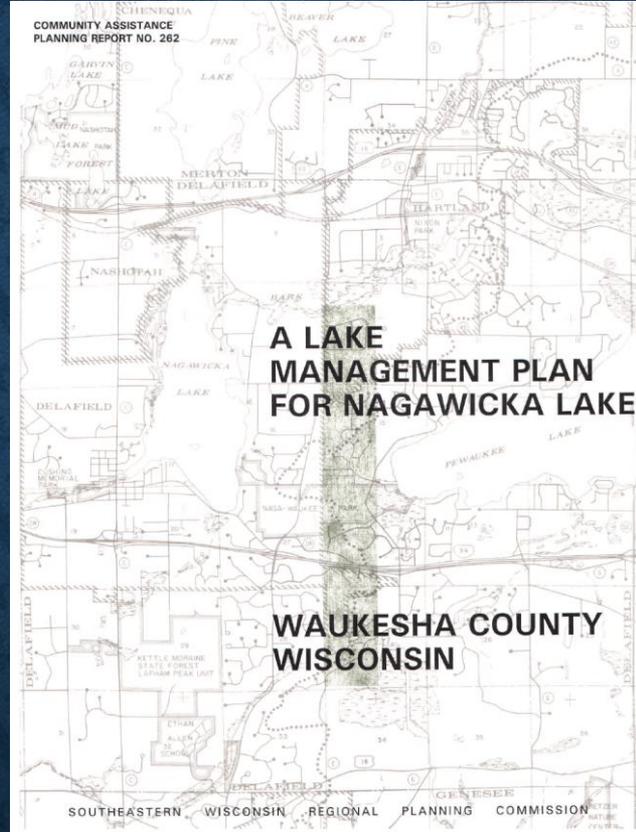
Wisconsin Regional Planning Commissions



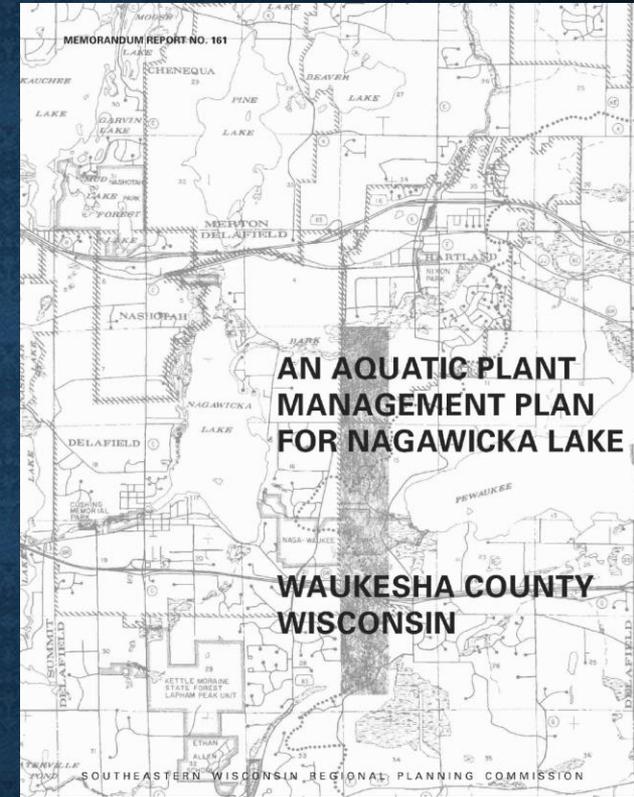
Previous Work on Nagawicka Lake



1999



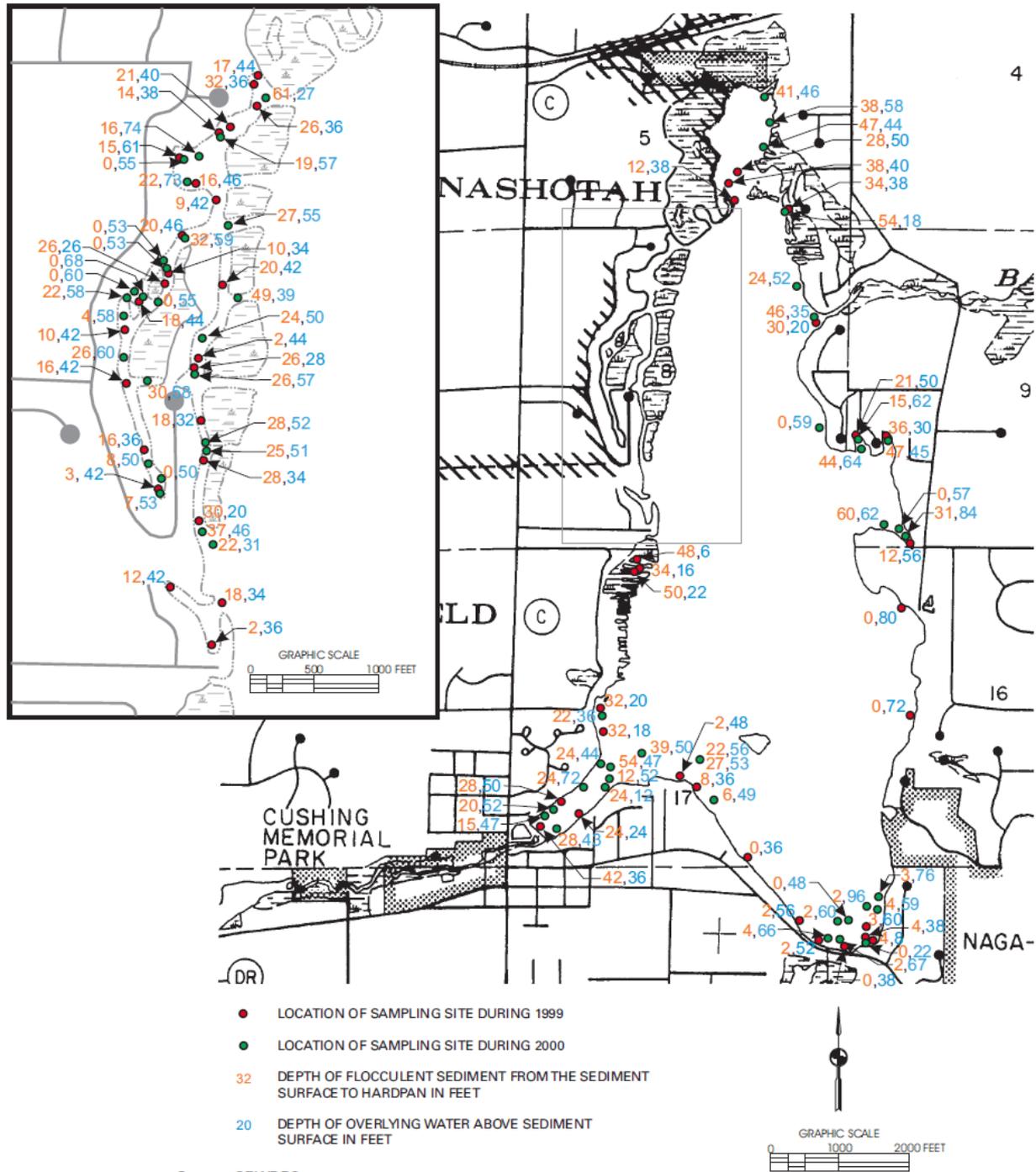
2001



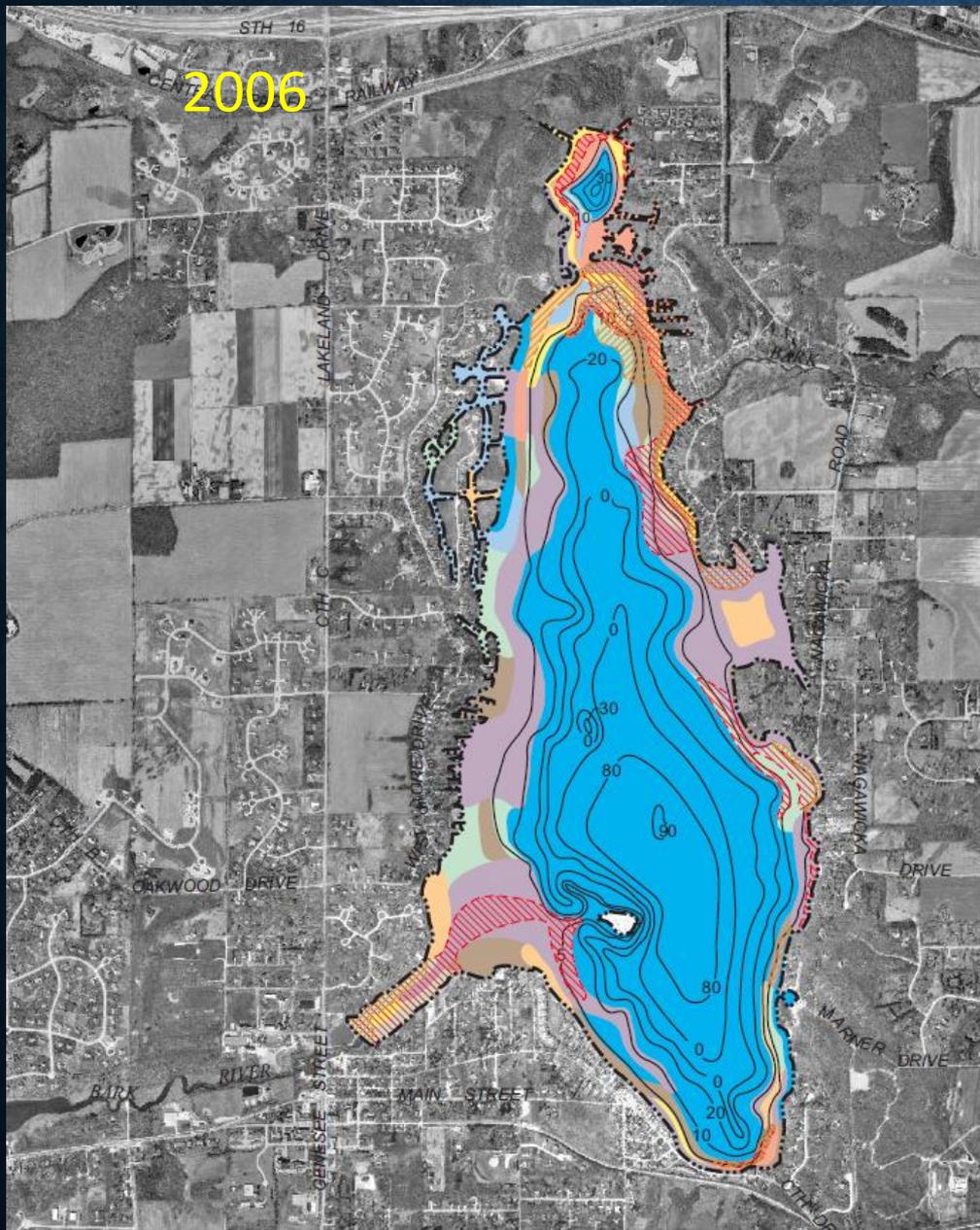
2006

Sediment Depth Distribution

2000



Aquatic Plant Distribution



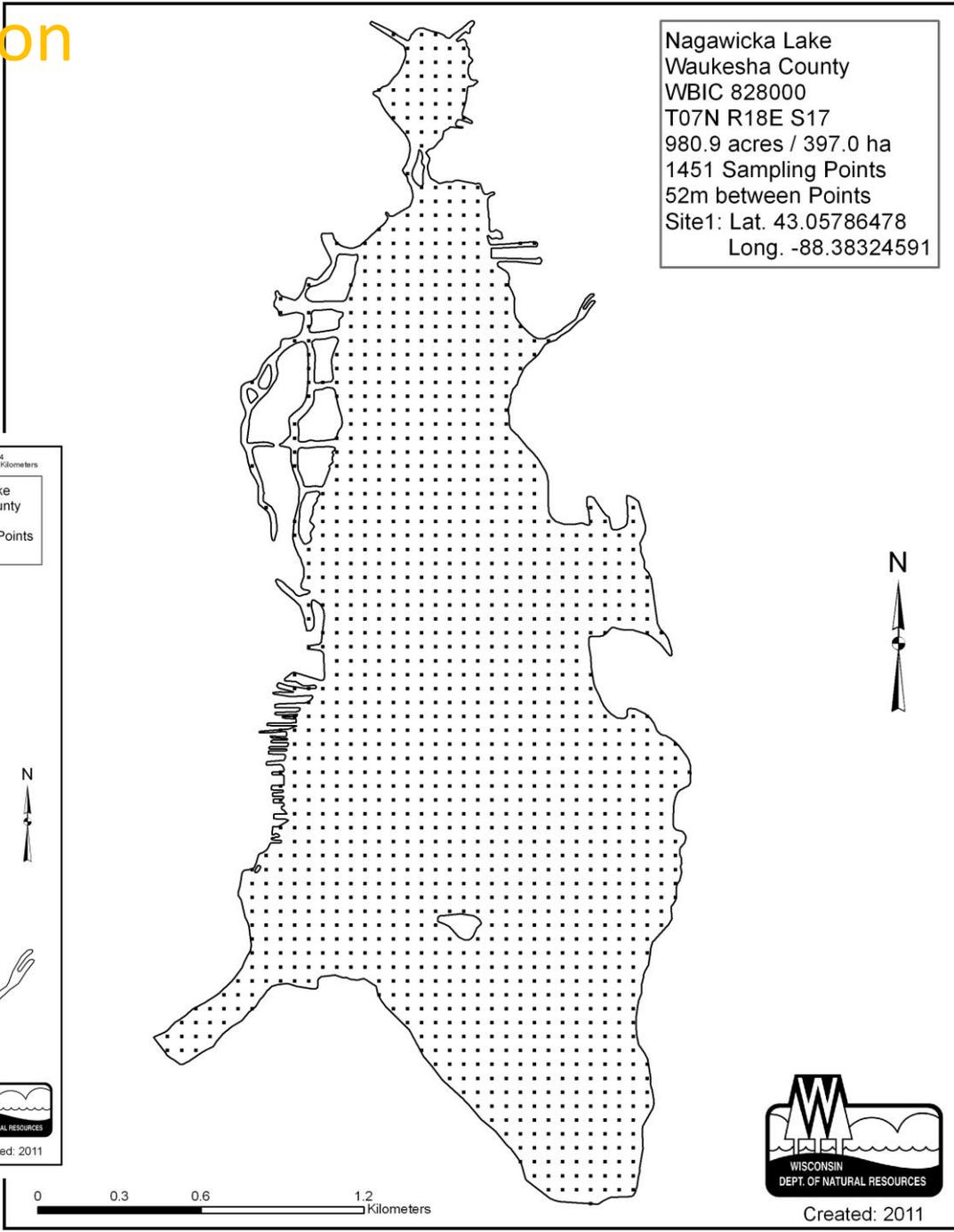
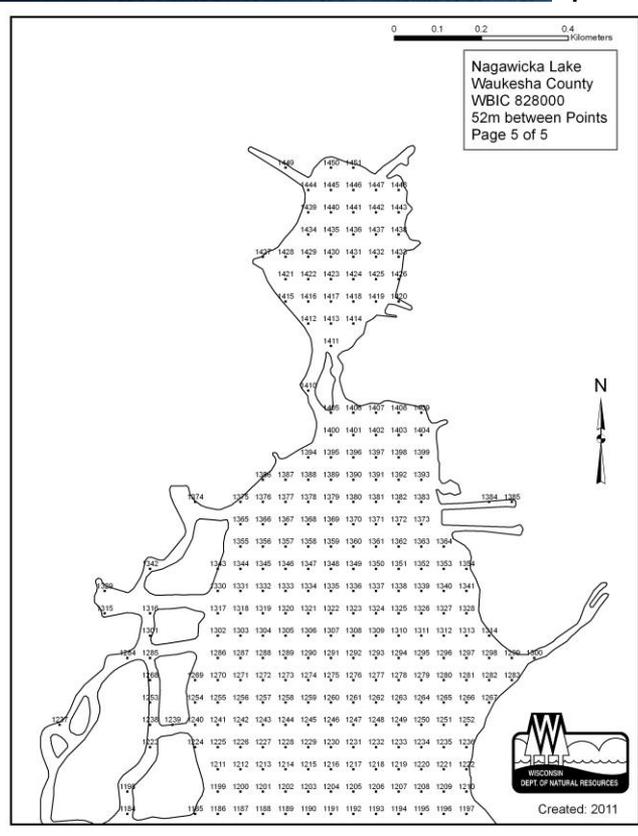
- 20 — WATER DEPTH CONTOUR IN FEET
- OPEN WATER
- CURLY LEAF PONDWEED
- EURASIAN WATER MILFOIL
- WILD CELERY FLAT STEM PONDWEED MUSKGRASS AND COONTAIL NATIVE WATER MILFOIL ILLINOIS PONDWEED CLASPING PONDWEED AND SAGO PONDWEED
- WILD CELERY MUSKGRASS NATIVE WATER MILFOIL FLAT STEM PONDWEED CLASPING LEAF PONDWEED COONTAIL ILLINOIS PONDWEED WATERWEED SAGO PONDWEED AND BUSHY PONDWEED
- MUSKGRASS WILD CELERY NATIVE WATER MILFOIL FLAT STEM PONDWEED COONTAIL ILLINOIS PONDWEED SAGO PONDWEED CLASPING LEAF PONDWEED LARGE LEAF PONDWEED WATER STAR GRASS AND BUSHY PONDWEED
- ILLINOIS PONDWEED MUSKGRASS AND NATIVE WATER MILFOIL FLAT STEM PONDWEED COONTAIL LARGE LEAF PONDWEED SAGO PONDWEED WATERWEED WILD CELERY AND BLADDERWORT
- WILD CELERY NATIVE WATER MILFOIL COONTAIL AND FLAT STEM PONDWEED MUSKGRASS WATERWEED AND ILLINOIS PONDWEED
- COONTAIL MUSKGRASS WILD CELERY NATIVE WATER MILFOIL FLAT STEM PONDWEED WATERWEED CLASPING LEAF PONDWEED BUSHY PONDWEED AND LARGE LEAF PONDWEED
- WILD CELERY NATIVE WATER MILFOIL MUSKGRASS FLAT STEM PONDWEED ILLINOIS PONDWEED CLASPING LEAF PONDWEED LARGE LEAF PONDWEED WATERWEED AND COONTAIL

NOTE: INDICATES SPECIES FOUND IN LESS THAN 50 PERCENT OF THE SITE

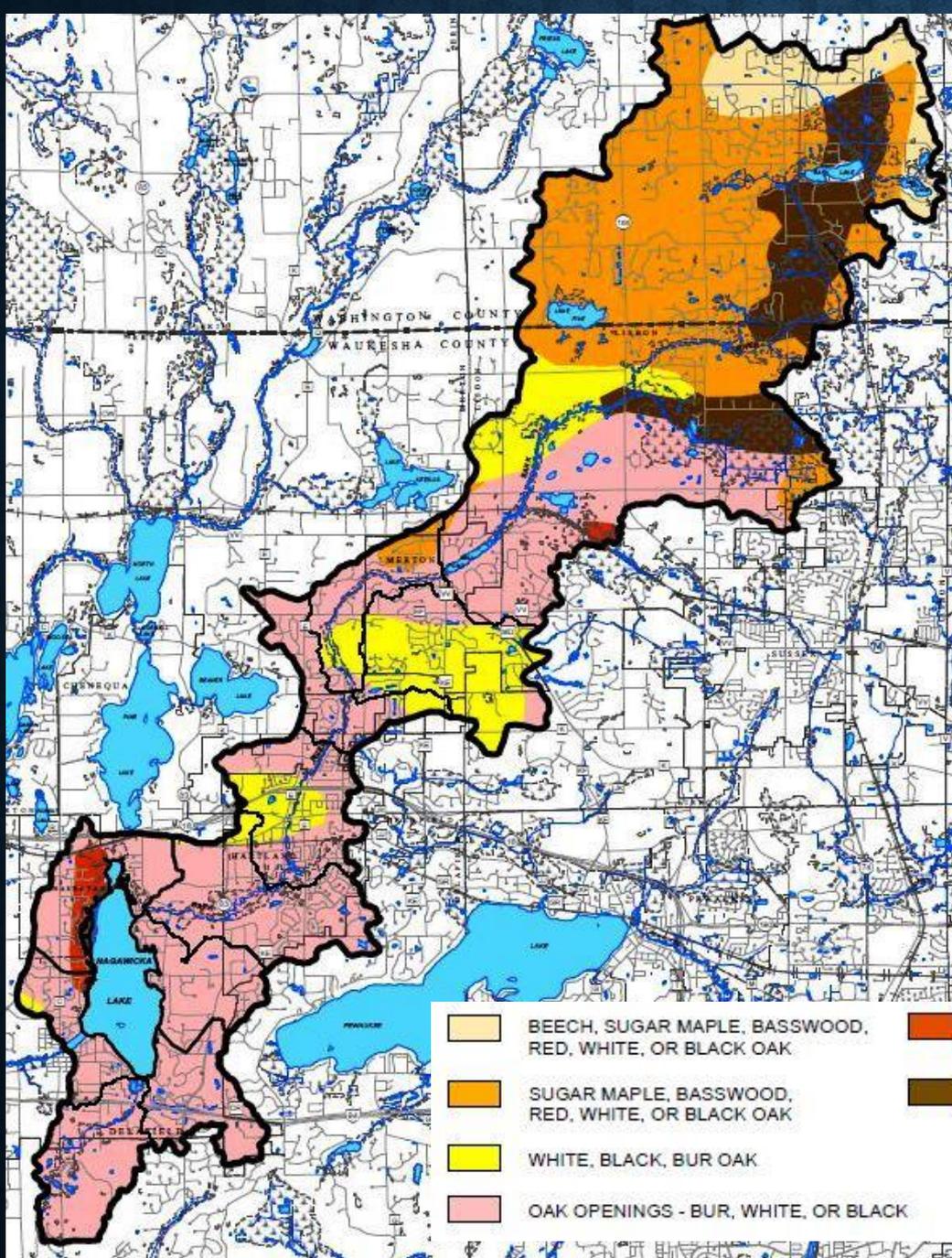
Aquatic Plant Distribution

2016?

Nagawicka Lake
Waukesha County
WBIC 828000
T07N R18E S17
980.9 acres / 397.0 ha
1451 Sampling Points
52m between Points
Site1: Lat. 43.05786478
Long. -88.38324591

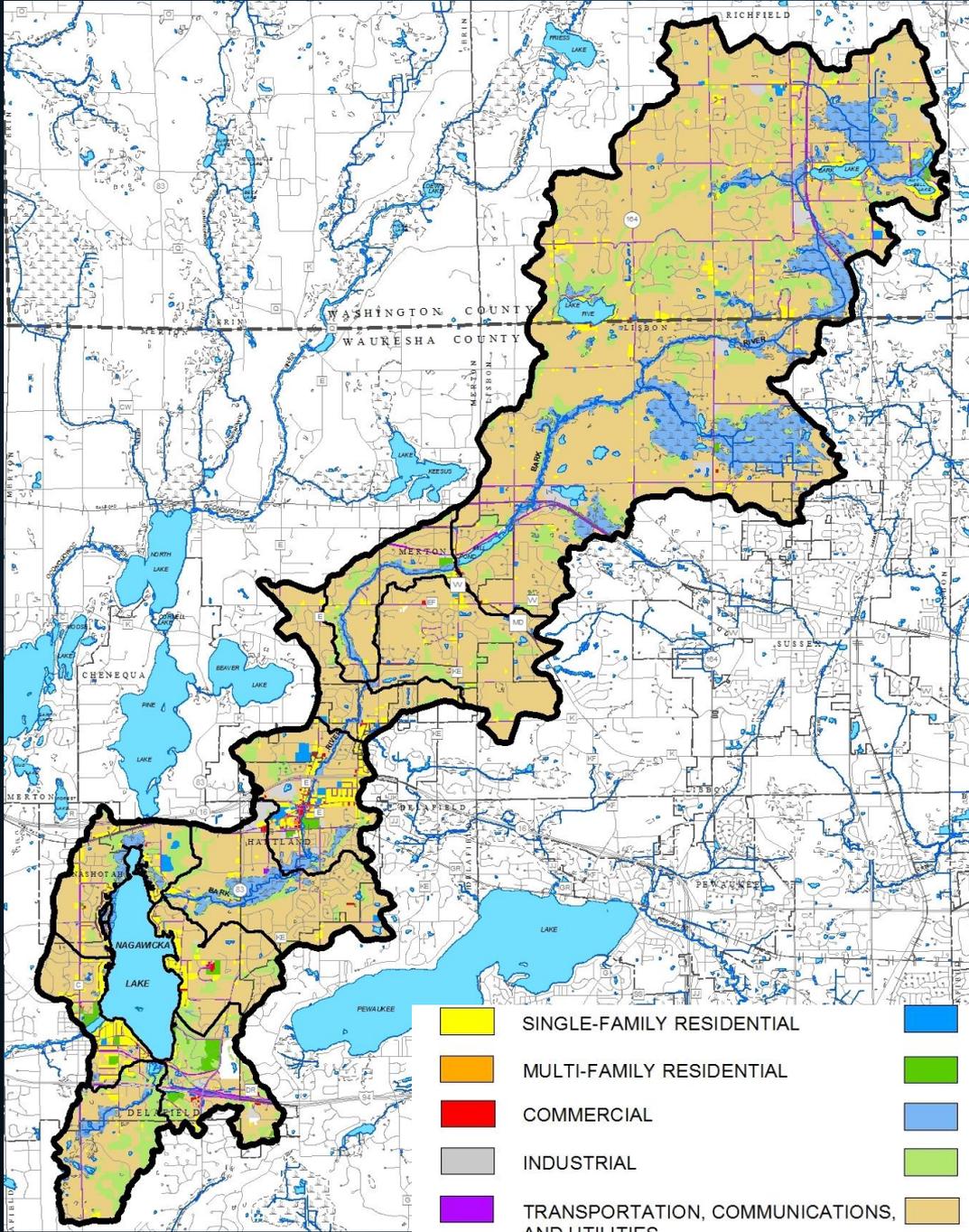


Land Use About 1835



Source WDNR and
SEWRPC

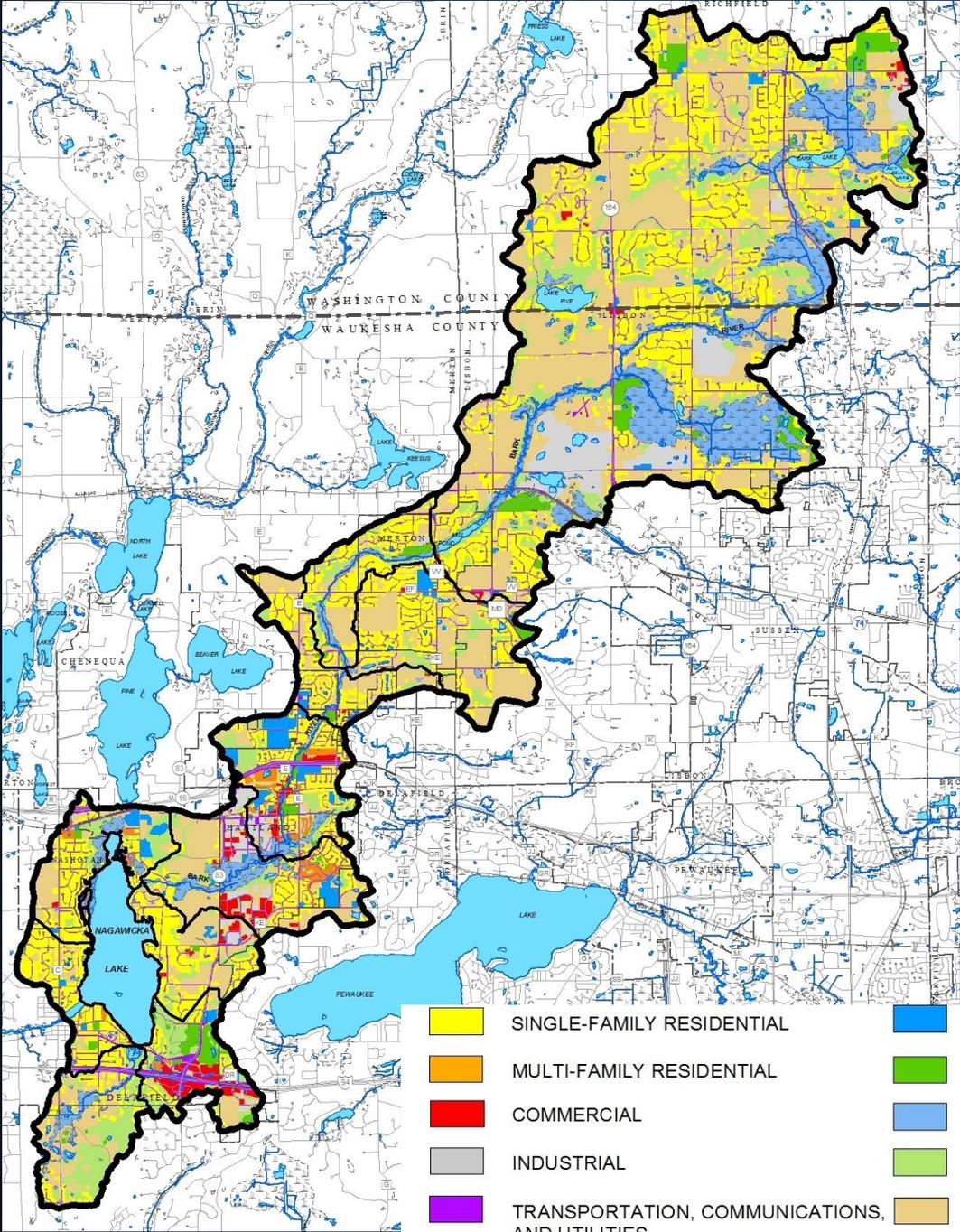
Land Use 1963



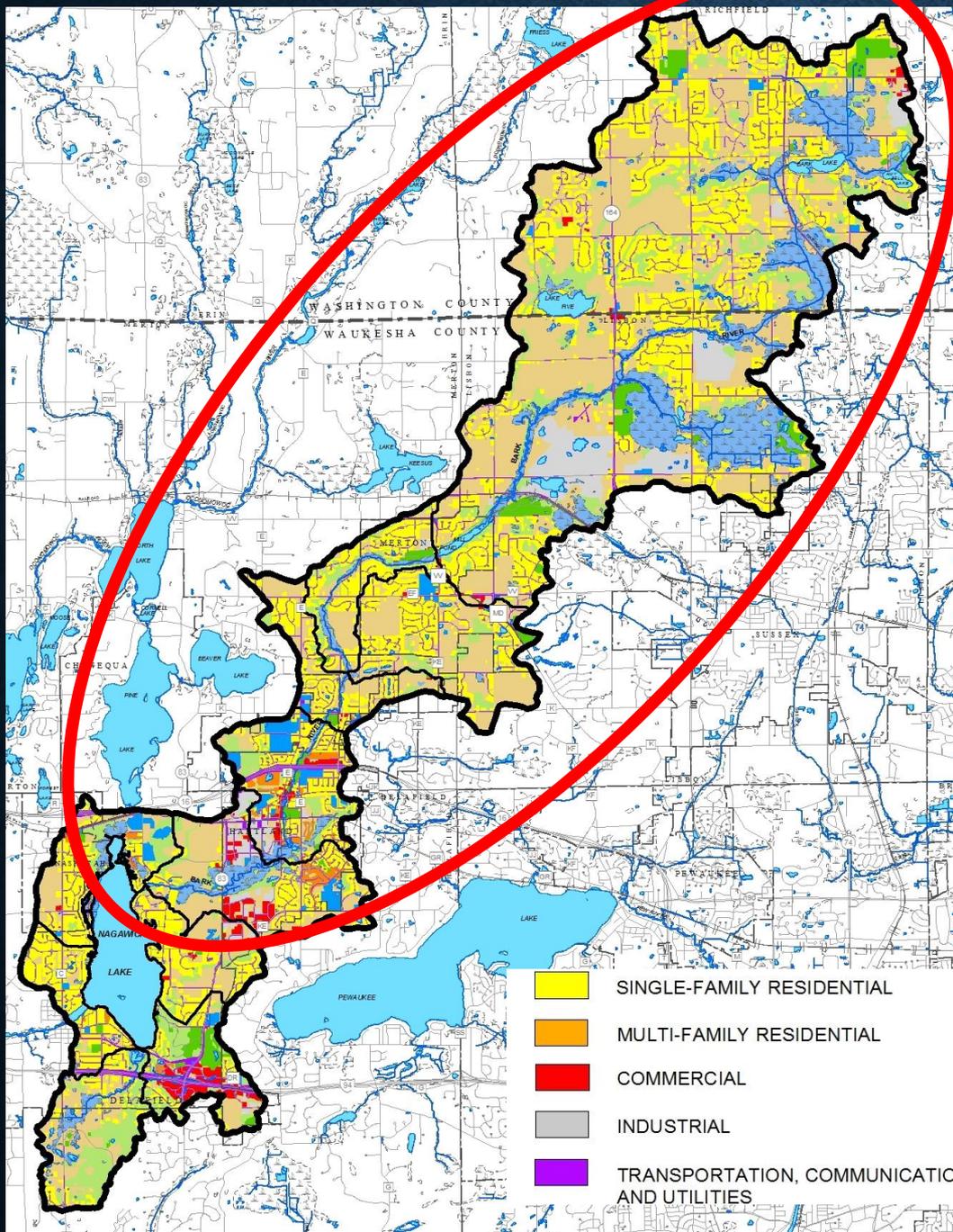
	SINGLE-FAMILY RESIDENTIAL		GOVERNMENT AND INSTITUTIONAL		EXTRACTIVE AND LANDFILL
	MULTI-FAMILY RESIDENTIAL		RECREATION		SURFACE WATER
	COMMERCIAL		WETLANDS		STREAM
	INDUSTRIAL		WOODLANDS		WATERSHED BOUNDARY
	TRANSPORTATION, COMMUNICATIONS, AND UTILITIES		AGRICULTURAL, UNUSED, AND OTHER OPEN LANDS		SUBBASIN BOUNDARY

Source SEWRPC

Land Use 2010



Source SEWRPC



Bark River

About 37 Square Miles

About 80% of Land Draining to Lake Nagawicka

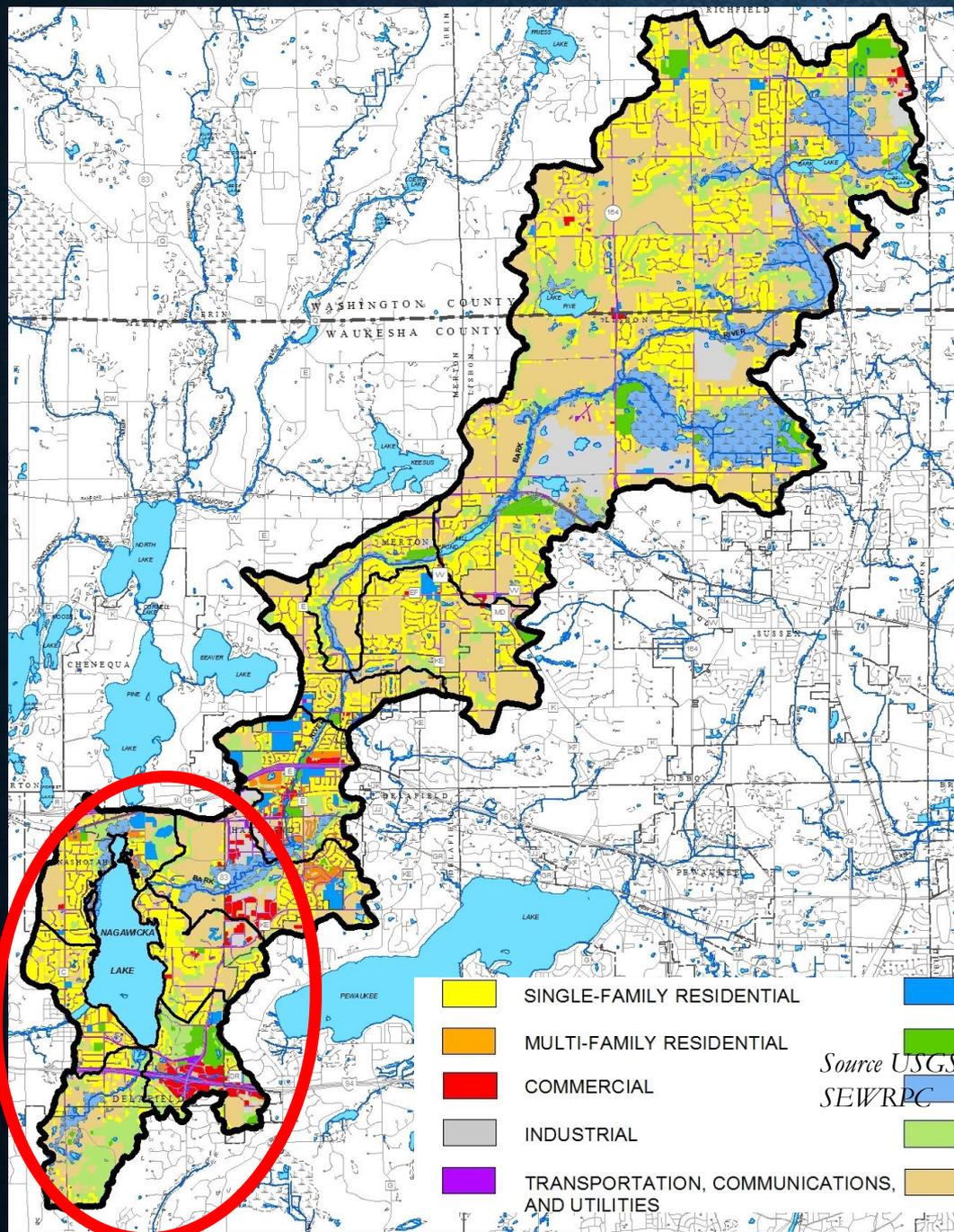
Source SEWRPC

	SINGLE-FAMILY RESIDENTIAL		GOVERNMENT AND INSTITUTIONAL		EXTRACTIVE AND INDUSTRIAL
	MULTI-FAMILY RESIDENTIAL		RECREATION		SURFACE WATER
	COMMERCIAL		WETLANDS		STREAM
	INDUSTRIAL		WOODLANDS		WATERSHED BOUNDARY
	TRANSPORTATION, COMMUNICATIONS, AND UTILITIES		AGRICULTURAL, UNUSED, AND OTHER OPEN LANDS		SUBBASIN BOUNDARY

Small Tributaries and Direct Drainage

About 8 Square Miles

About 20% of Land Draining to Lake Nagawicka

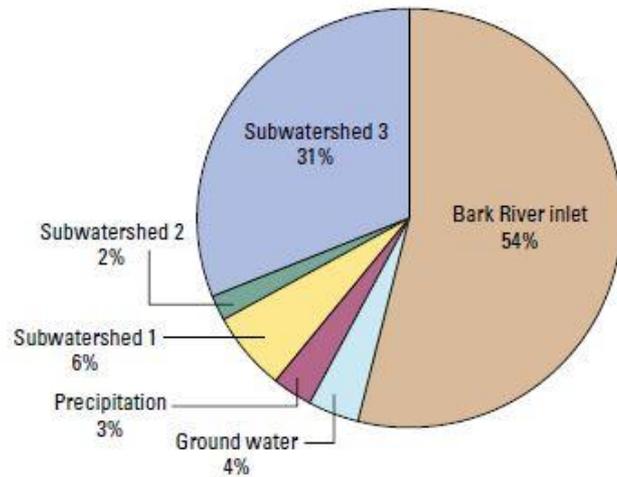


Source SEWRPC

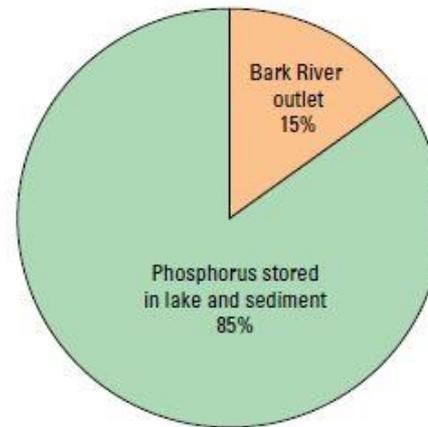
Source USGS and SEWRPC

- | | | | | | |
|---|---|---|--|---|-------------------------|
|  | SINGLE-FAMILY RESIDENTIAL |  | GOVERNMENT AND INSTITUTIONAL |  | EXTRACTIVE AND LANDFILL |
|  | MULTI-FAMILY RESIDENTIAL |  | RECREATION |  | SURFACE WATER |
|  | COMMERCIAL |  | WETLANDS |  | STREAM |
|  | INDUSTRIAL |  | WOODLANDS |  | WATERSHED BOUNDARY |
|  | TRANSPORTATION, COMMUNICATIONS, AND UTILITIES |  | AGRICULTURAL, UNUSED, AND OTHER OPEN LANDS |  | SUBBASIN BOUNDARY |

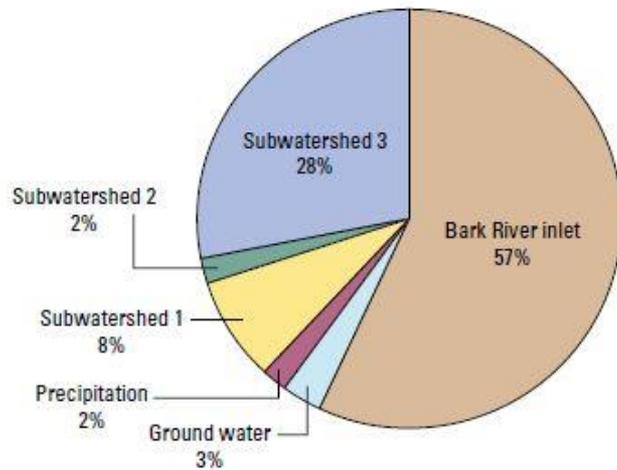
Phosphorus inputs, monitoring year 2003
(Total input – 3,010 pounds)



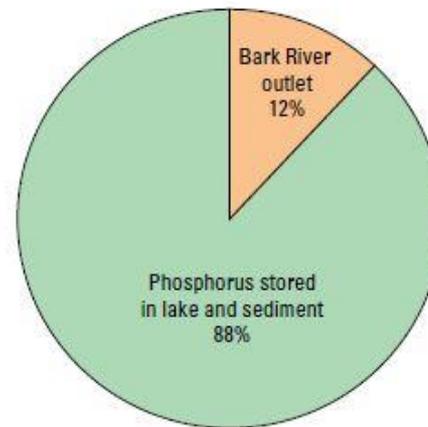
Phosphorus outputs, monitoring year 2003
(Total output and storage – 3,010 pounds)



Phosphorus inputs, monitoring year 2004
(Total input – 6,696 pounds)

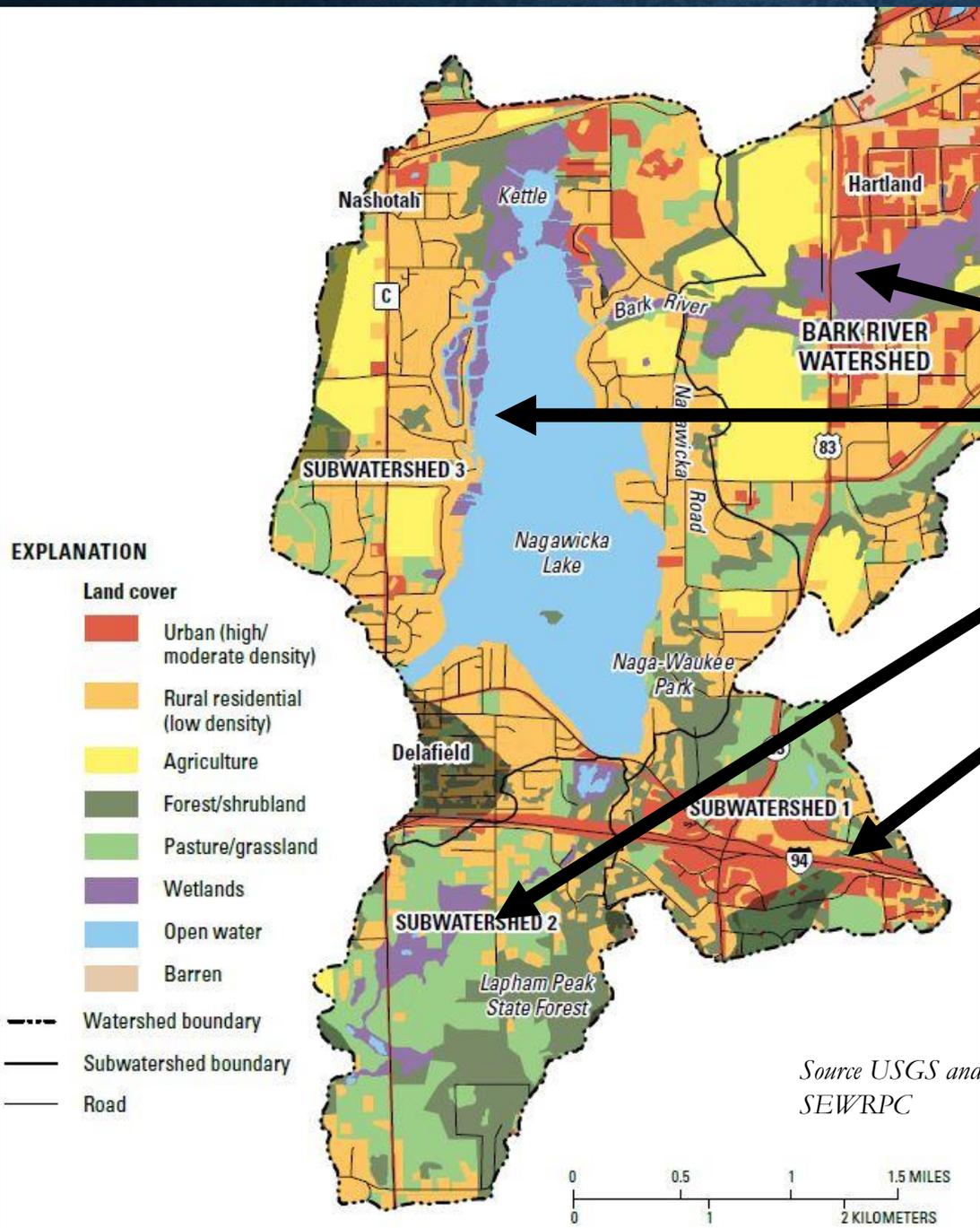


Phosphorus outputs, monitoring year 2004
(Total output and storage – 6,696 pounds)



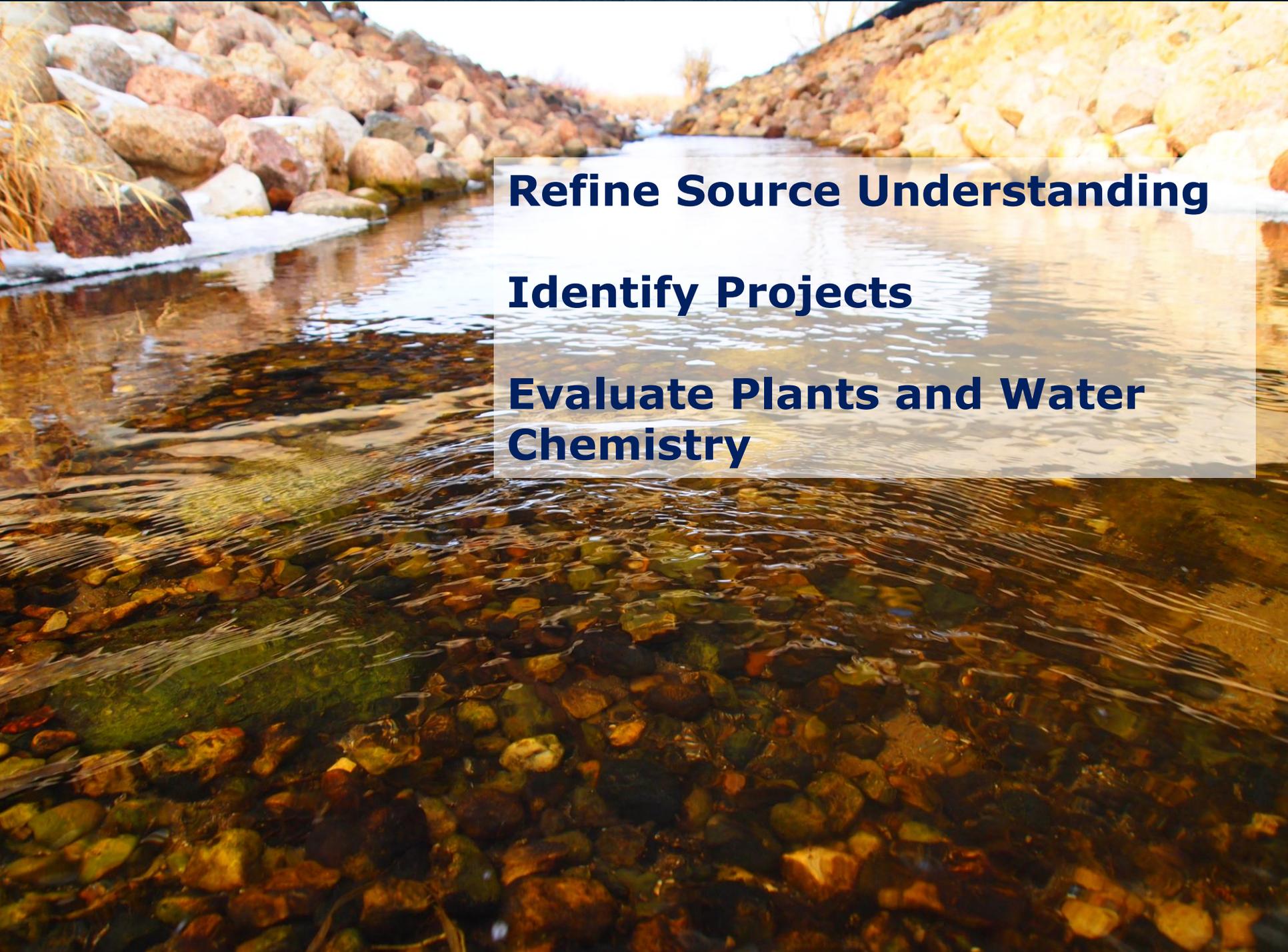
Source USGS

Unit-Area Phosphorus Yield (Pounds Per Acre Per Year)



- Bark River Watershed = X
- Direct Drainage to Lake (Subwatershed 3) = 4X
- Southwest (Subwatershed 2) = 0.6X
- Southeast (Subwatershed 1 - I94/STH 83 Area) = 3X

Aquatic Plants



Refine Source Understanding

Identify Projects

**Evaluate Plants and Water
Chemistry**

Grant Components

- 1. Update Aquatic Plant Management Plan**
- 2. Summary of Lake Water Quality**
- 3. Lake Shoreline Condition and Habitat Assessment**
- 4. Lake Sediment Survey**
- 5. Digital Watershed Inventory and Buffer Analysis**
- 6. Stream Assessment**
- 7. Report**

Share your ideas and knowledge with us

- Old and new concerns
- Observations
- Potential projects

Collaboration

Information

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