Lake Drawdown Project Updates

Lakes Drawdown Project Updates
Trippe and Cravath Lakes
October 15, 2022

- Presenters:
- Eric Boettcher, Parks and Recreation Director
- Heidi Bunk, DNR Lakes Biologist

Lakes Drawdown and Dredging Project

- The Lakes Drawdown and Dredge Project that began on July 8,2019 with the drawing down of the lakes has been extended another year. After the first season of the drawdown Cravath Lake has been fully drawn down.
- To help with the drawdown of Trippe Lake, siphons were added over the spillway in the summer of 2020. This allowed the continuous drawing down of the lake over the past year.
- Both lakes were drawn down by August of 2021.
- The dredging phase of the project took place January, 12 – February 27 of 2022. Both lakes were drawn down through this entire process.
- Lakes were refilled in the spring of 2022.
- The goal is to improve water quality and depth, reduce aquatic vegetation and eliminate certain invasive aquatic plant species. Please follow our website www.whitewater-wi.gov for more information as this exciting project begins.

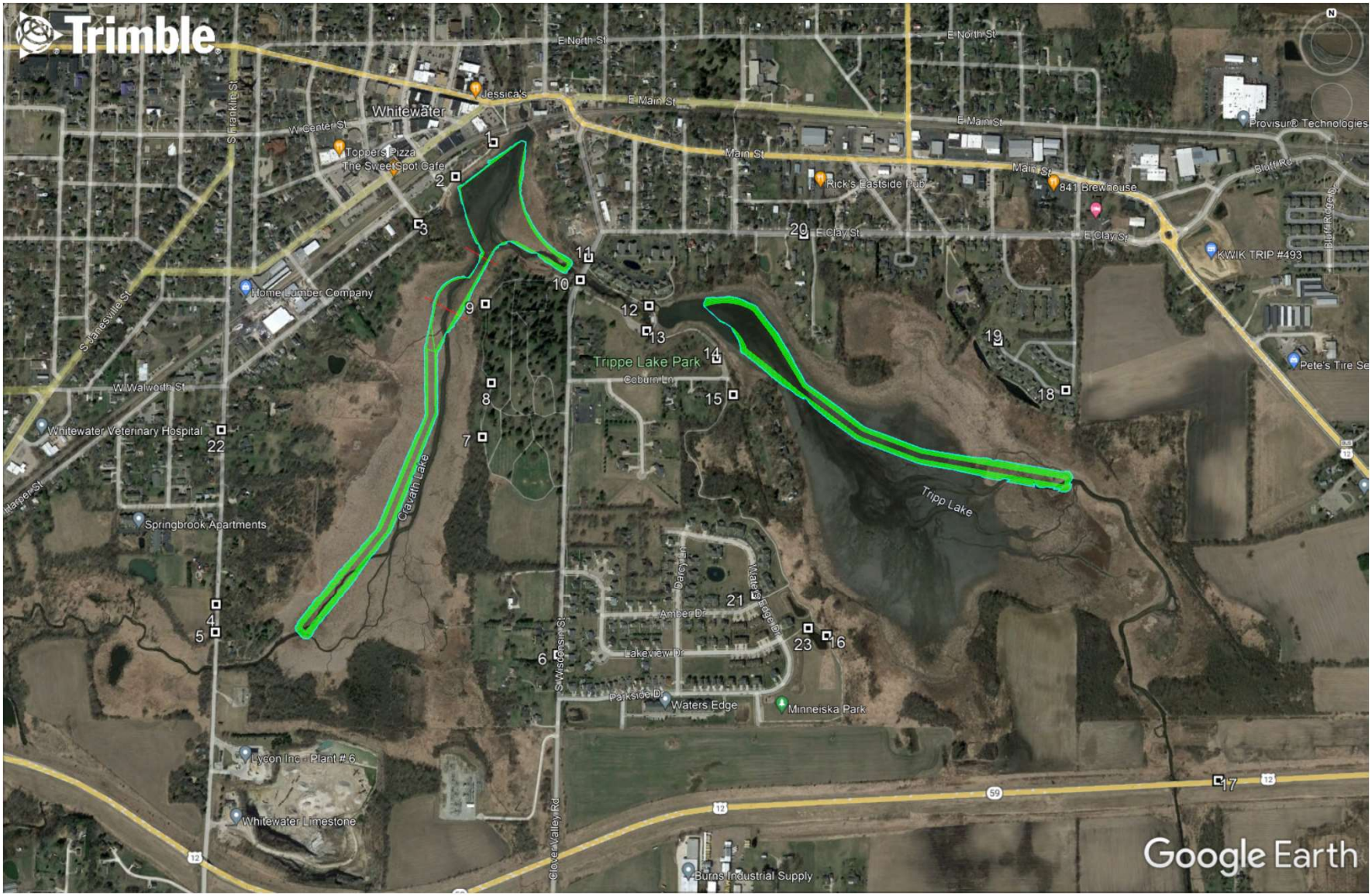
Cravath February 16, 2022

Trippe Lake February 16, 2022

Cravath Lake March 15, 2022

Trippe Lake March 15, 2022

Original Dredge Plan



Cravath Dredging Area

Trippe Dredging Area

Cravath Lake July 2019

Cravath Lake August 2022

Current State of the Lake

Upcoming Project Time Line

- Fish restocking fall of 2022
- Controlled burn scheduled for January 2023
- Plan the treatment of cattails spring of 2023
- Fish restocking fall of 2023

Fish Stocking

- DNR fisheries stocked Northern Pike in September, 300 in Cravath and 350 in Trippe: 10 -11 inch size

Keystone Hatcheries Fish Stocking

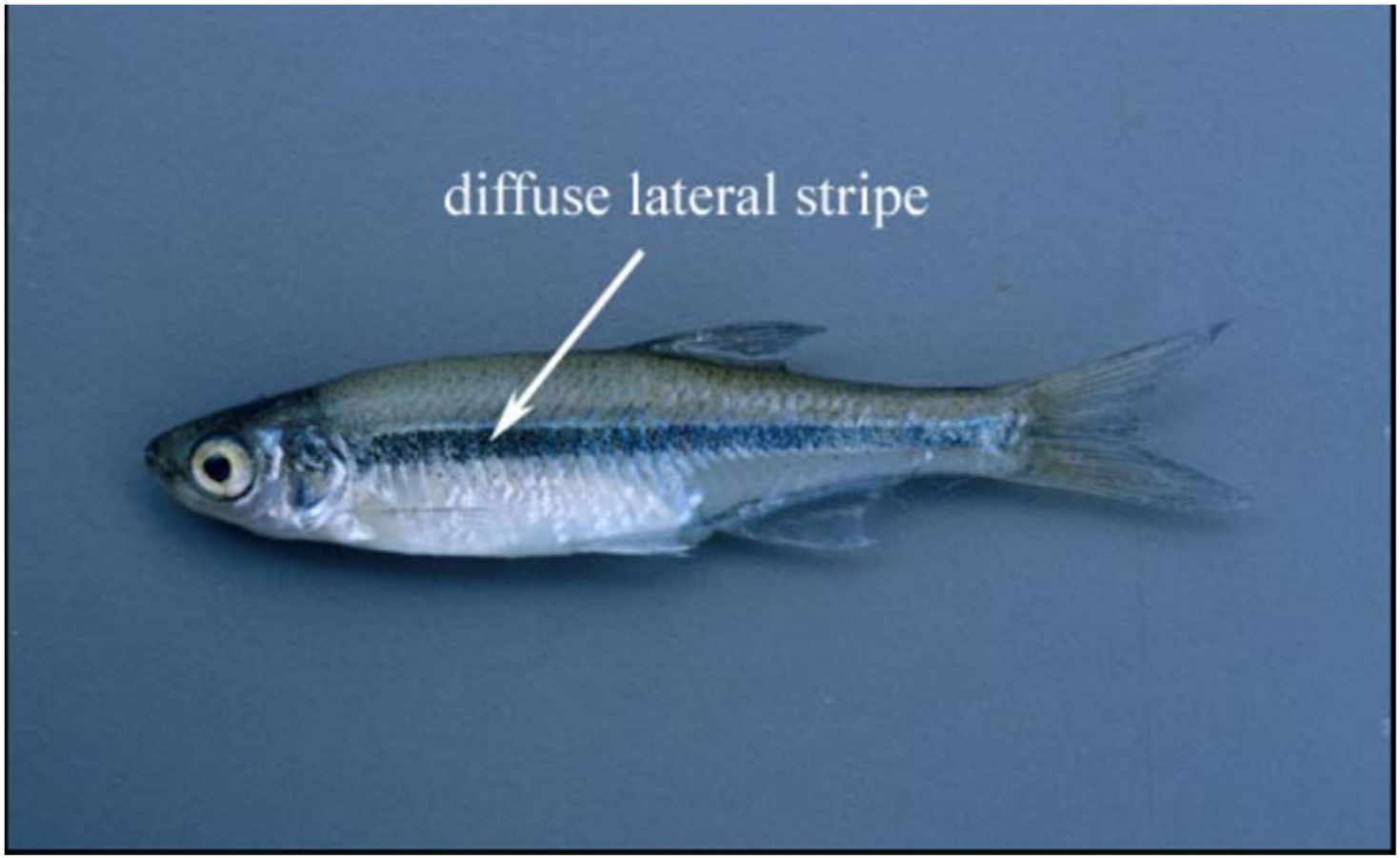
- Fish stocking is scheduled for the end of October
- Each lake will receive
  - 100 Bluegill 4 – 6 inch
  - 600 Crappie 2-3 inch
  - 500 Yellow Perch 3-5 inch
- In addition 5-10lbs of Golden Shiner will be added to each lake

Bluegill

Black Crappie

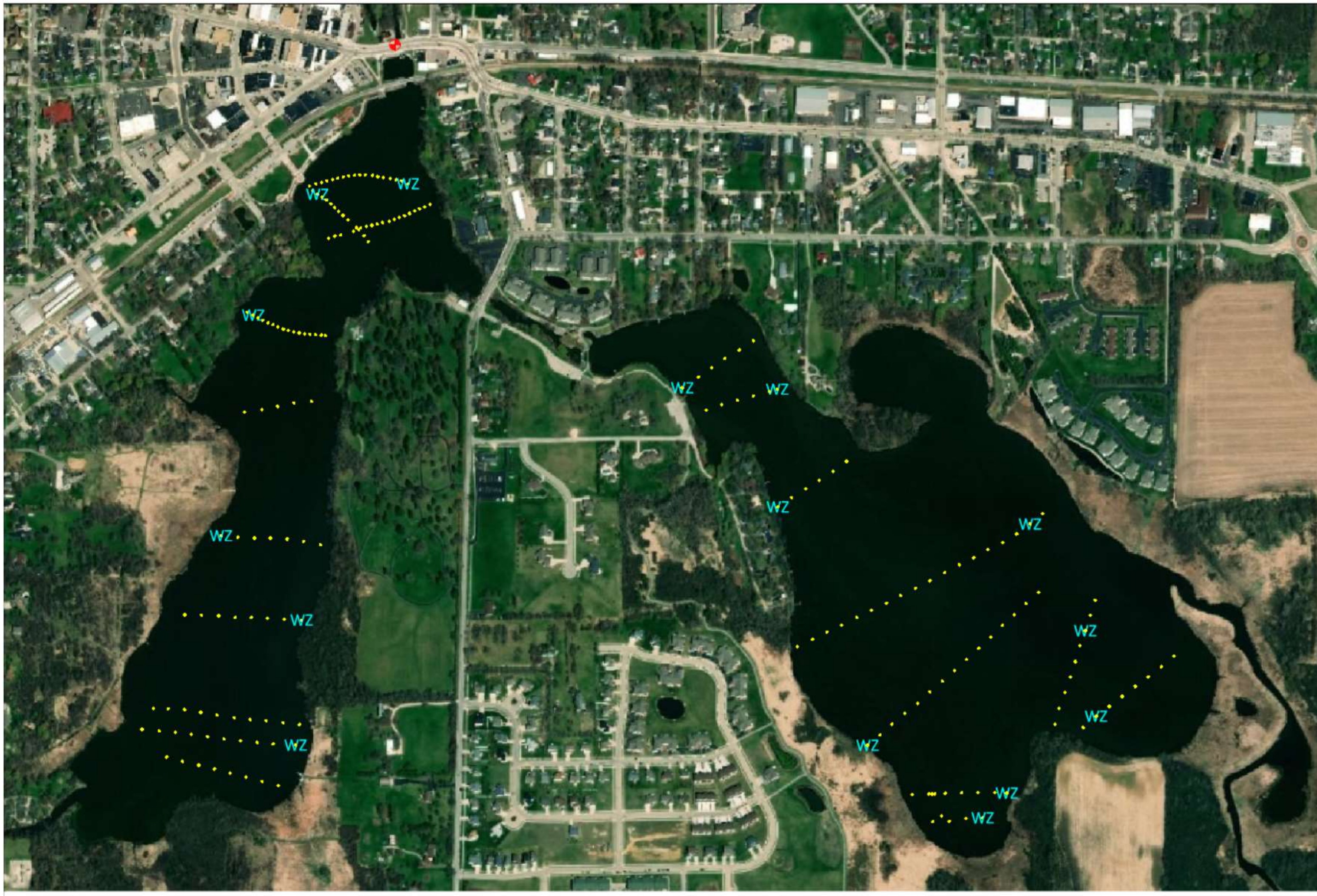
Yellow Perch

Golden Shiner



Large Mouth Bass

Burning in January 2023



DEPARTMENT OF NATURAL RESOURCES
BUREAU OF FACILITIES AND LANDS
ENGINEERING SECTION

State of Wisconsin
Department of Administration
Division of Facilities Development

Agency / Institution:
Agency
Agency

Project Title:
Project Title
Project Title

Project Location:
Project Location
Project Location

Sheet Title:
First Line
Second Line

Revisions:

No.	Date:	By:	Description:
⚠	00/00/00	ABC	Addendum No. 1

Graphic Scale 0' 1' 2' 4' 6'

DSF Number	DSF Project No.
Set Type	PR,FR,BD,ETC.
Date Issued	##/##/####
Sheet Number	C100

FILENAME\Drawing\.dwg

Figure 15: Non-Navigable sample points within Tripp Lake during 2017 survey.

Common Name	Scientific Name	Frequency of occurrence within vegetated areas (%)	Average Rake Fullness	Number of sites where species found (does not include visuals)	# of sites with visual sightings
American Lotus	*Nelumbo lutea*	16.38	19	1.84	208
Arrowhead sp.	*Sagittaria sp.*	-	-	-	3
Cattail sp.	*Typha sp.*	-	-	-	45
Common-Watermeal	*Wolffia columbiana*	-	-	-	25
Common Waterweed	*Elodea canadensis*	16.38	19	1.11	11
Coontail	*Ceratophyllum demersum*	91.38	106	1.93	37
Curly-Leaf Pondweed	*Potamogeton crispus*	3.45	4	1.00	21
Eurasian Water-Milfoil (or hybrid)	*Myriophyllum spicatum*	23.28	27	1.15	39
Filamentous Algae	*Filamentous algae*	57.76	67	1.46	20
Flat-Stem Pondweed	*Potamogeton zosteriformis*	0.86	1	1.00	2
Floating-Leaf Pondweed	*Potamogeton natans*	10.34	12	1.75	14
Illinois Pondweed	*Potamogeton illinoensis*	3.45	4	1.25	5
Large Duckweed	*Spirodela polyrhiza*	0.86	1	1.00	2
Leafy Pondweed	*Potomogeton foliosus*	2.59	3	1.00	8
Long-Leaf Pondweed	*Potamogeton nodosus*	2.59	3	1.00	7
Purple Loosestrife	*Purple Loosestrife*	-	-	-	15
Sago Pondweed	*Stuckenia pectinata*	5.17	6	1.00	48
Small Duckweed	*Lemna minor*	2.59	3	1.00	60
Variable Pondweed	*Potamogeton gramineus*	0.86	1	1.00	-
Yellow Pond-Lily	*Nuphar advena*	-	-	-	4
White water lily	*Nymphaea odorata*	12.93	15	1.53	80
Wild Celery	*Vallisneria americana*	4.31	5	1.20	5
Wild Rice	*Zizania sp.*	-	-	-	5
Overall totals for vegetation		80.56	116	2.22	272

Table 4: Summary of Tripp Lake's 2017 PI Survey Plant Data.

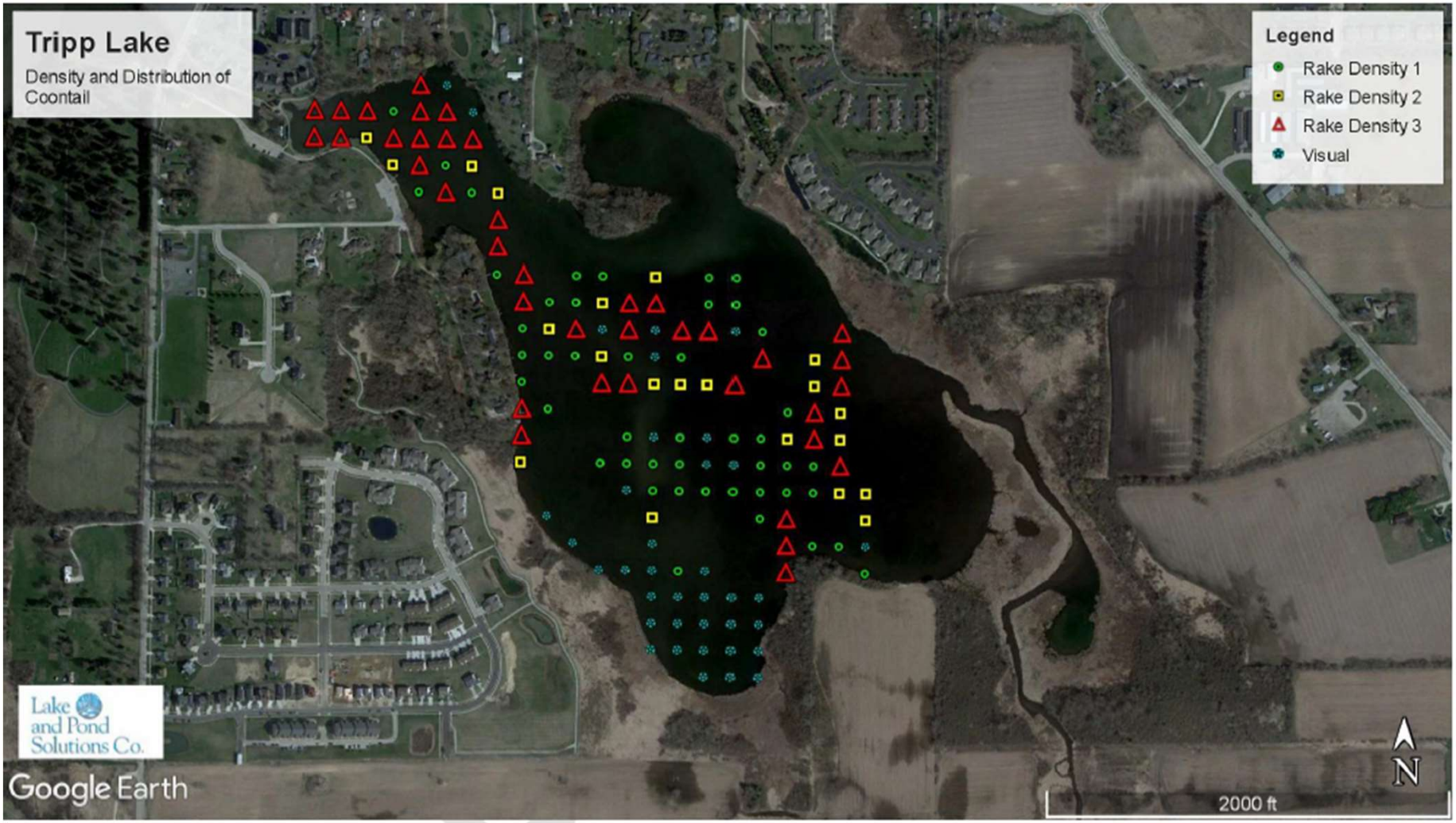
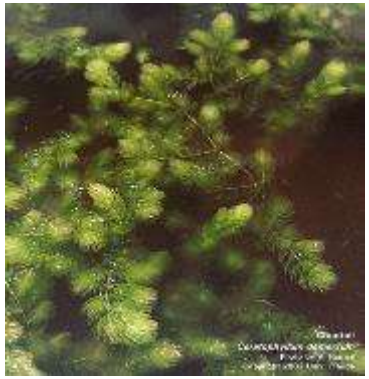


Figure 10: Distribution and density of Coontail (native).

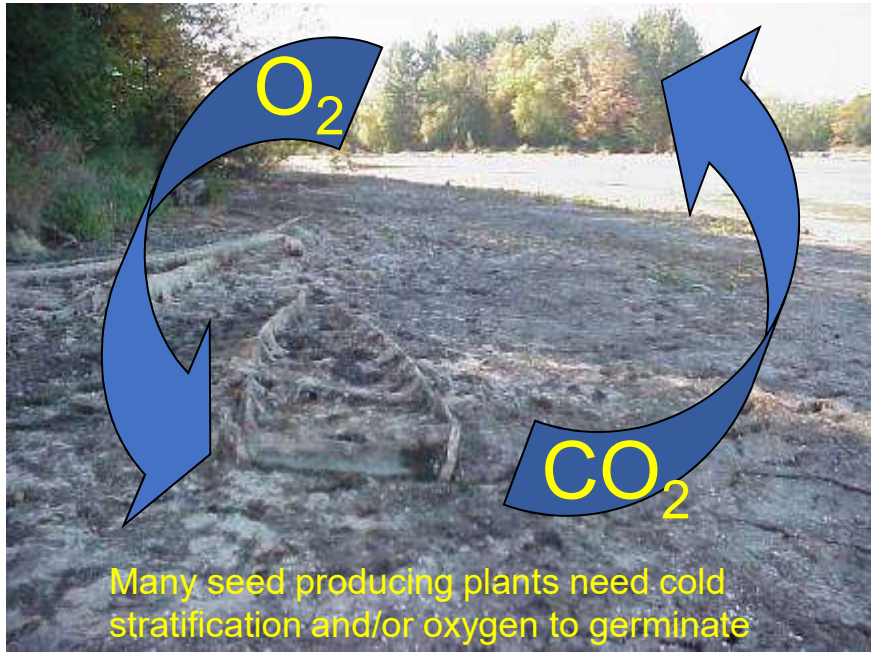
Coontail



Lake Sediment
(desiccation, decomposition and consolidation)

Germination of Native Seeds

Aeration:



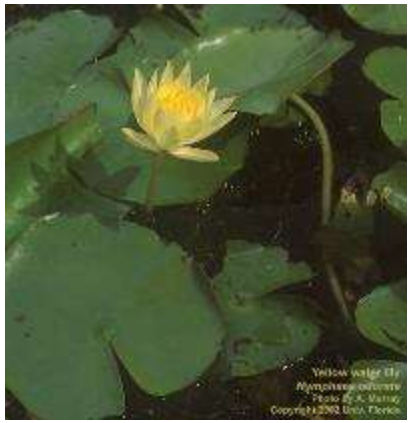
Long Leaf Pondweed

Wild Rice

Softstem Bulrush

Smartweed

Yellow Water Lilies



Cattails

Function of Cattails

- Use of phosphorus to reduce algae blooms
- Wind break to allow establishment of native submersed plants
- Wildlife habitat
- Lake sediment stabilization
- Goose deterrent from shore area

Cattail Management

- Winter burn scheduled for January 2023
- Additional methods
  - Mechanical Harvest
  - Manual cutting ($2,400.00 per day)
  - Bog removal
  - Chemical Treatment

Goals of Lakes Restoration Project

- Navigational depth for boating
- Clarity of water
- Shift in aquatic plant community
- Improve fishery
- Improve wildlife habitat

Eric Boettcher

Director of Parks & Recreation

Email: eboettcher@whitewater-wi.gov

Phone: 262-473-0122

Common Name	Scientific Name	Frequency of occurrence within vegetated areas (%)	Average Rake Fullness	Number of sites where species found (does not include visuals)	# of sites with visual sightings
American Lotus	*Nelumbo lutea*	1.4	1.7	3	3
Arrowhead sp.	*Sagittaria sp.*	0.5	1.0	1	5
Cattail sp.	*Typha sp.*	-	-	-	33
Common Reed	*Phragmites australis*	-	-	-	2
Common-Watermeal	*Wolffia columbiana*	85.2	1.6	178	10
Common Waterweed	*Elodea canadensis*	35.4	1.3	74	14
Coontail	*Ceratophyllum demersum*	95.7	2.2	200	1
Curly-Leaf Pondweed	*Potamogeton crispus*	12.9	1.0	27	39
Eurasian Water-Milfoil (or hybrid)	*Myriophyllum spicatum*	46.9	1.3	98	21
Filamentous Algae	*Filamentous algae*	16.3	1.3	34	2
Flat-Stem Pondweed	*Potamogeton zosteriformis*	2.4	1.0	5	4
Floating-Leaf Pondweed	*Potamogeton natans*	-	-	-	4
Illinois Pondweed	*Potamogeton illinoensis*	-	-	-	1
Sago Pondweed	*Stuckenia pectinata*	6.7	1.0	14	36
Small Duckweed	*Lemna minor*	92.3	1.7	193	13
Variable Pondweed	*Potamogeton gramineus*	1.0	1.0	2	7
Yellow Pond-Lily	*Nuphar advena*	-	-	-	26
White water lily	*Nymphaea odorata*	25.4	1.4	53	88
Overall totals for vegetation		100	2.363636	209	165

Table 2: Summary of Lake Cravath's 2017 PI Survey Plant Data.

Lakes Drawdown Update Meeting

Saturday, October 15, 2022

City Hall at 10am - 12pm

Presentations by Heidi Bunk from WDNR and City Staff