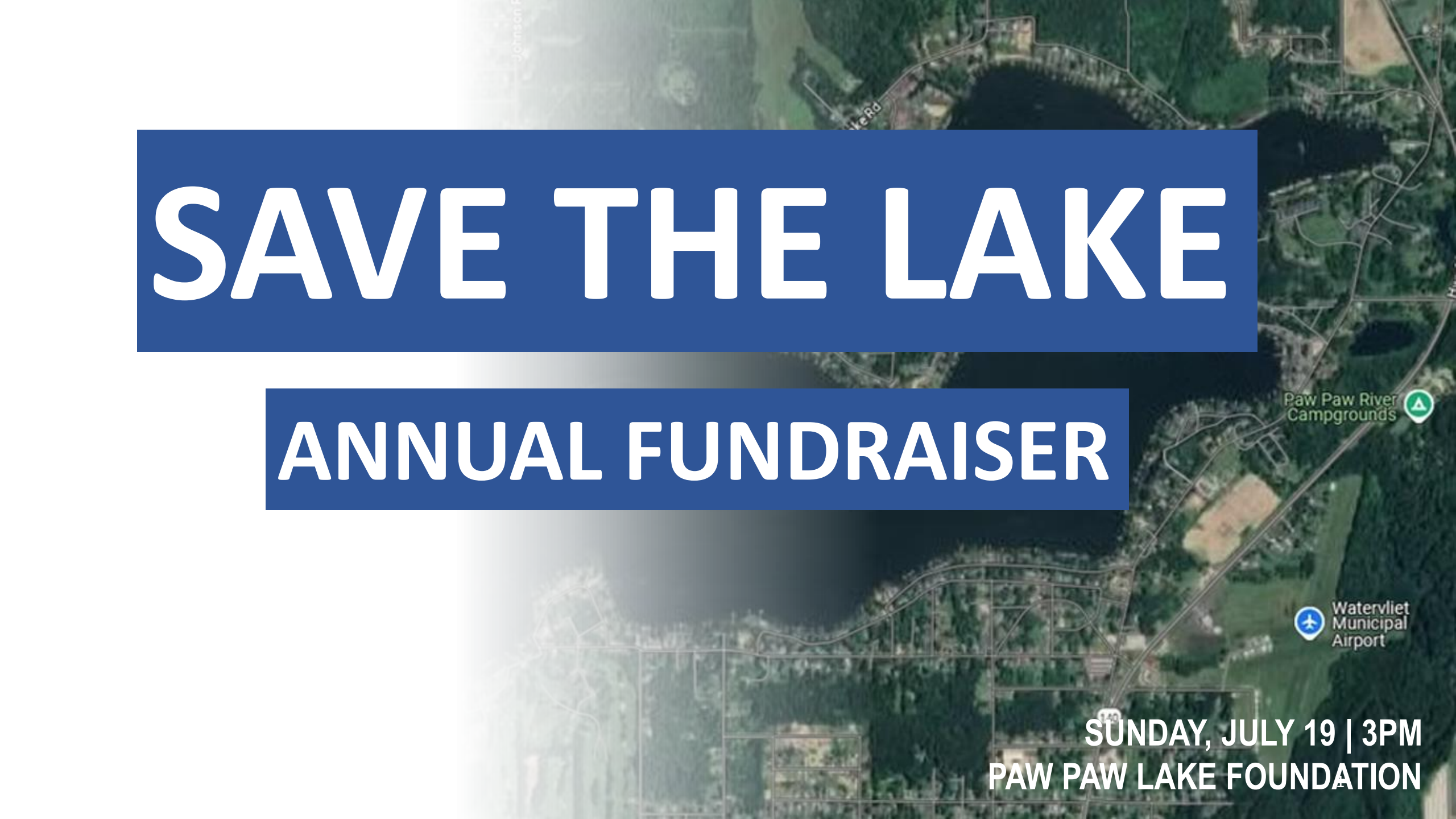


A satellite map of the Paw Paw Lake area, showing the lake, surrounding roads, and greenery. The text is overlaid on the map.

# SAVE THE LAKE

## ANNUAL FUNDRAISER

**SUNDAY, JULY 19 | 3PM**  
**PAW PAW LAKE FOUNDATION**

# WHO WE ARE

**The Paw Paw Lake Foundation has been a 501(c)(3) since July of 1995.**

**This means all donations are tax deductible.**

**Our 17 board members are all volunteers and local lake residents from Coloma and Watervliet.**

# WHAT WE DO

**The Paw Paw Lake Foundation  
is dedicated to the preservation, protection, and  
improvement of our lake,  
its ecosystem, and its watershed.**

**Our work is to SAVE THE LAKE for our future,  
our children, and our property values**



# Mike P. Bond | President

## Board Members

**Laurie A. Hoadley**  
Secretary

**Carl D. Spessard**  
Treasurer

**Gerald A. Beeson**  
Director

**Joanna B. Ford**  
Director

**Louis S. Gibson**  
Director

**James E. Hoadley**  
Director

**Clint P. Jones**  
Director

**Mark T. Malin**  
Director

**Michael J. McLean**  
Director

**James J. Pasko**  
Director

**Charles L. Pater**  
Director

**Nick F. Scalise**  
Director

**Mark A. Schmitt**  
Director

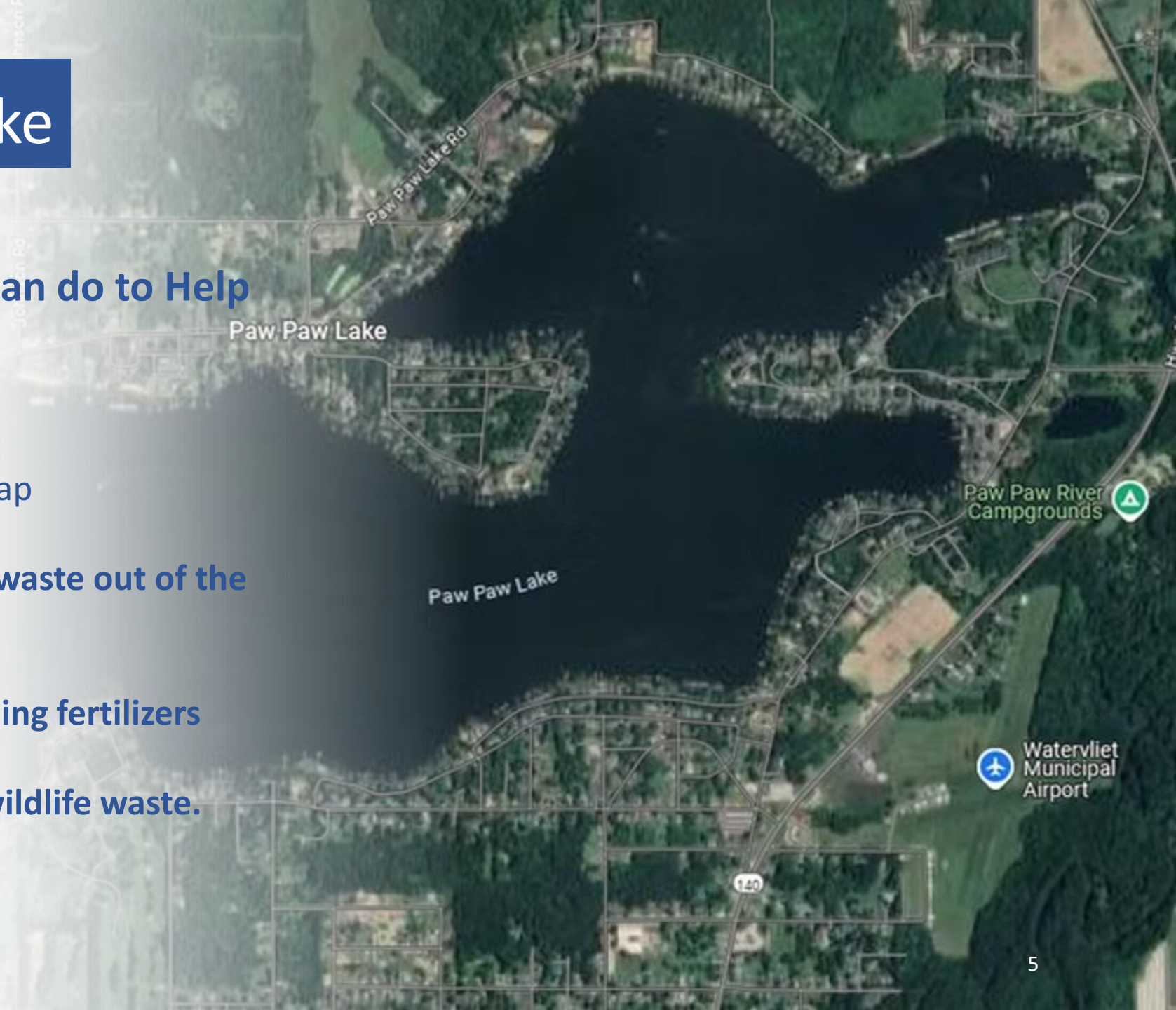
**Jeffery M. Shupe**  
Director

**Kenneth L. Teutsch**  
Director

**Joseph A. Wasserman**  
Director

# Help Save Our Lake

- **Things each property owner can do to Help Save Our Lake**
  - **Create a natural shoreline**
    - using natural plants or rip rap
  - **Keep grass clipping and leaves waste out of the lake**
  - **Do not use Phosphorus containing fertilizers**
  - **Pick up pet, goose, and other wildlife waste.**

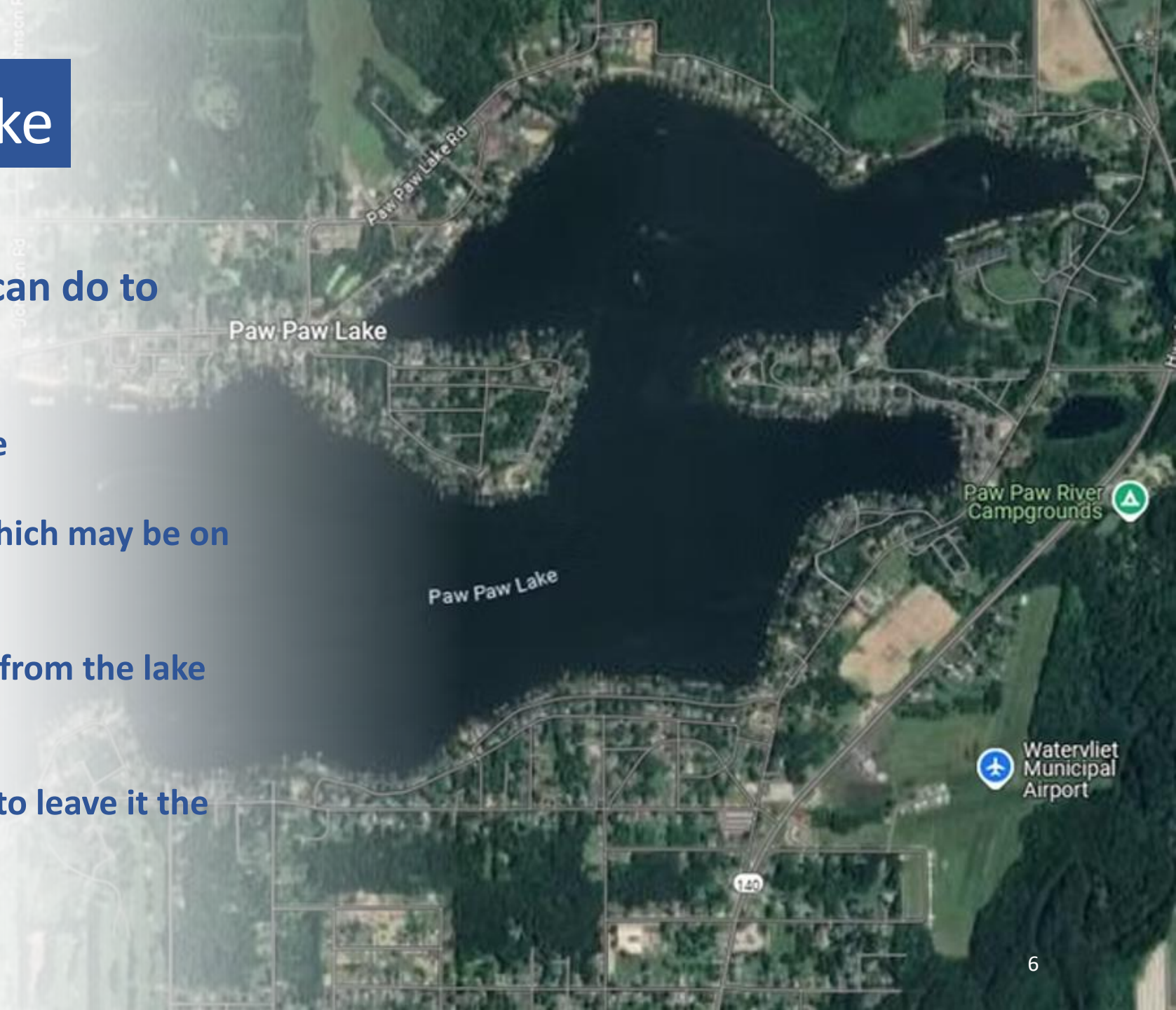




# Help Save Our Lake

- **Things each property owner can do to Help Save Our Lake.**
  - Keep gas and oil out of the lake
  - Be aware of old septic tanks which may be on lakefront property
  - Remove any debris and leaves from the lake and dispose of properly.

**This is our lake and we want to strive to leave it the BEST we can for our children.**



# Paw Paw Lake Water Quality





# Paw Paw Lake Water Quality

**Why Should We Care?**

**Why DO We Care?**





# 1. Property Values

## Lakefront Price Trends on Paw Paw Lake (Latest Available Data)

### 1. Median Listing Prices Are High and Rising

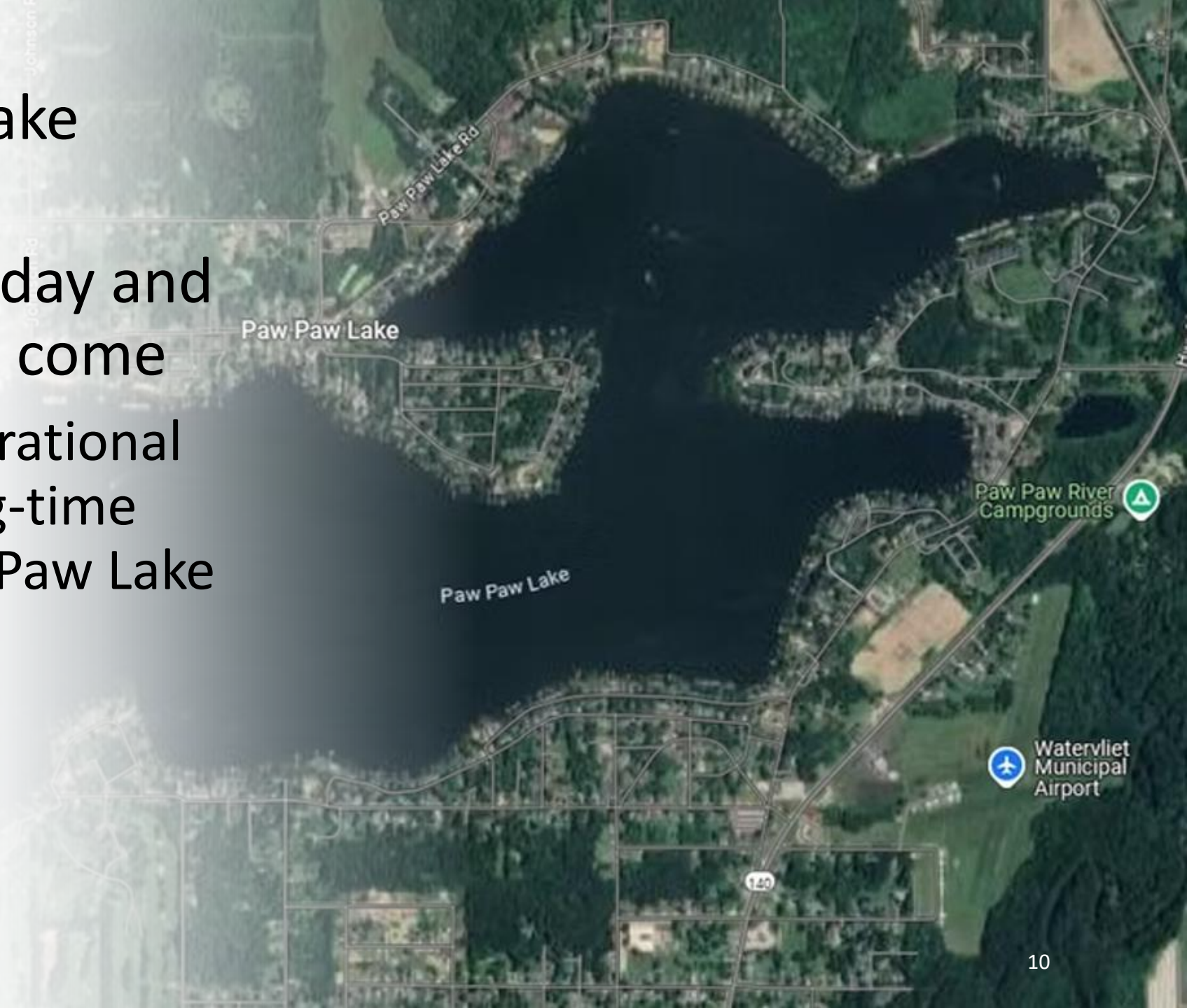
- **+41.12% year-over-year growth**, indicating strong upward momentum.

Realtor.com

This reflects the premium placed on lake frontage and limited inventory.

## 2. Enjoyment of lake

- Our enjoyment today and for generations to come
  - Many multi-generational families, and long-time residents at Paw Paw Lake





- What determines the quality of water in PPL?

## 1. Watershed

- Water that enters the lake from the surrounding area

## 2. Composition of existing lake water

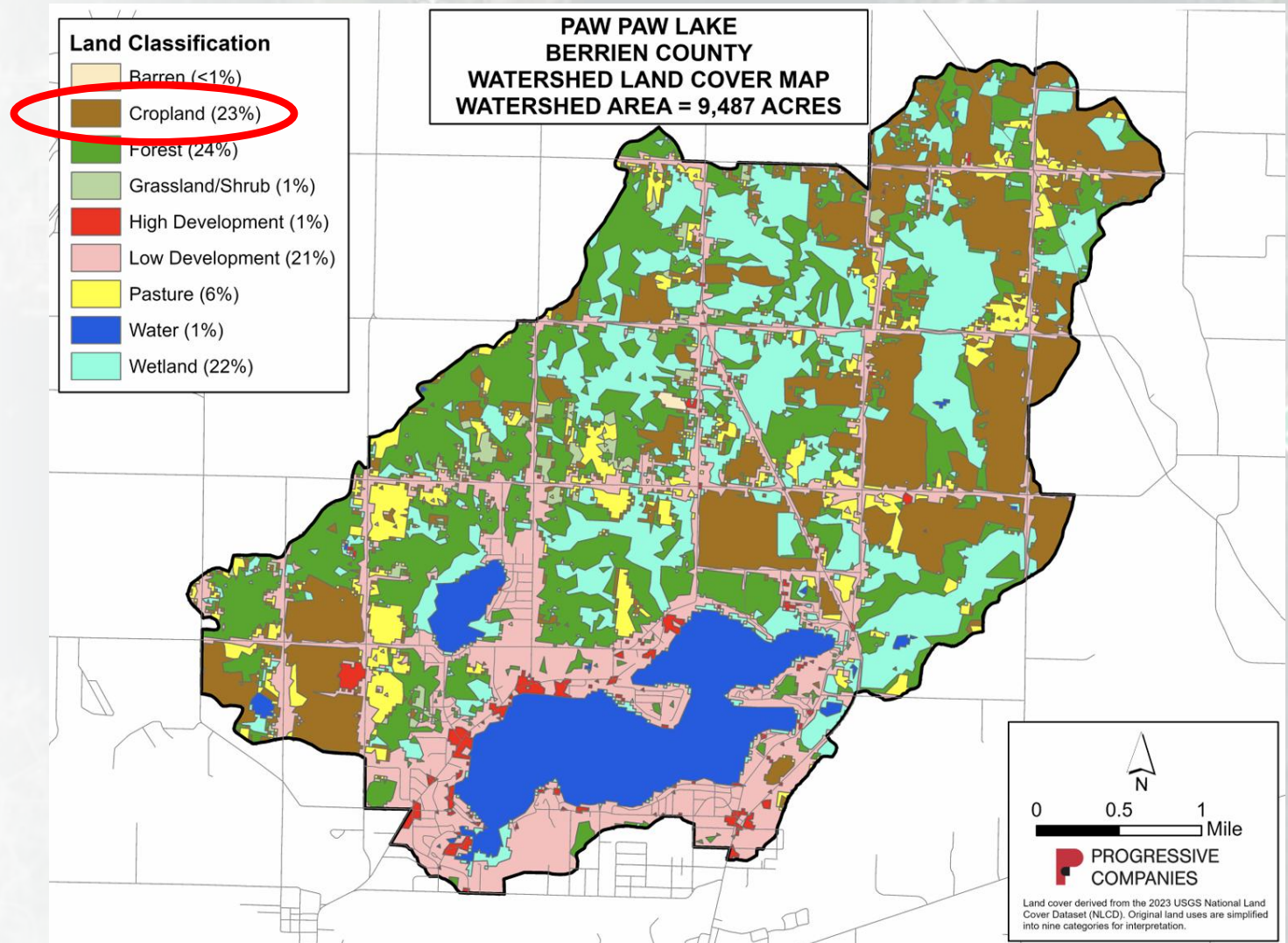
- Contaminants/nutrients already in the lake water and bottom sediment



- What determines the quality of water in PPL?

- Watershed

- Water that enters the lake through drains and other inflow sources
- 23% is cropland – largest contributor of P, N and other nutrients
- #1 contributor of agricultural runoff – Heater Farm (now a conservancy)

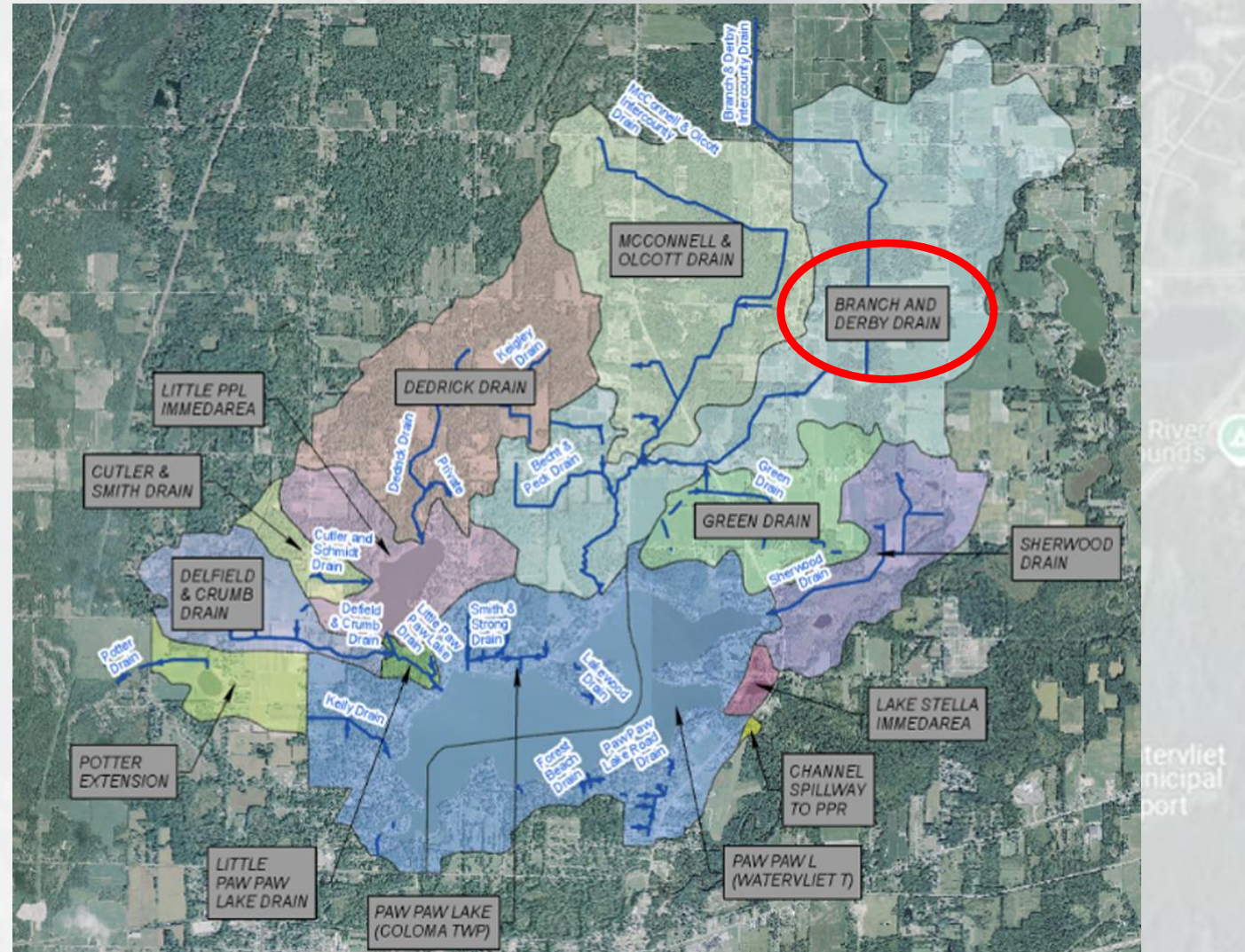




- How does the water get into Paw Paw Lake?

- Drains

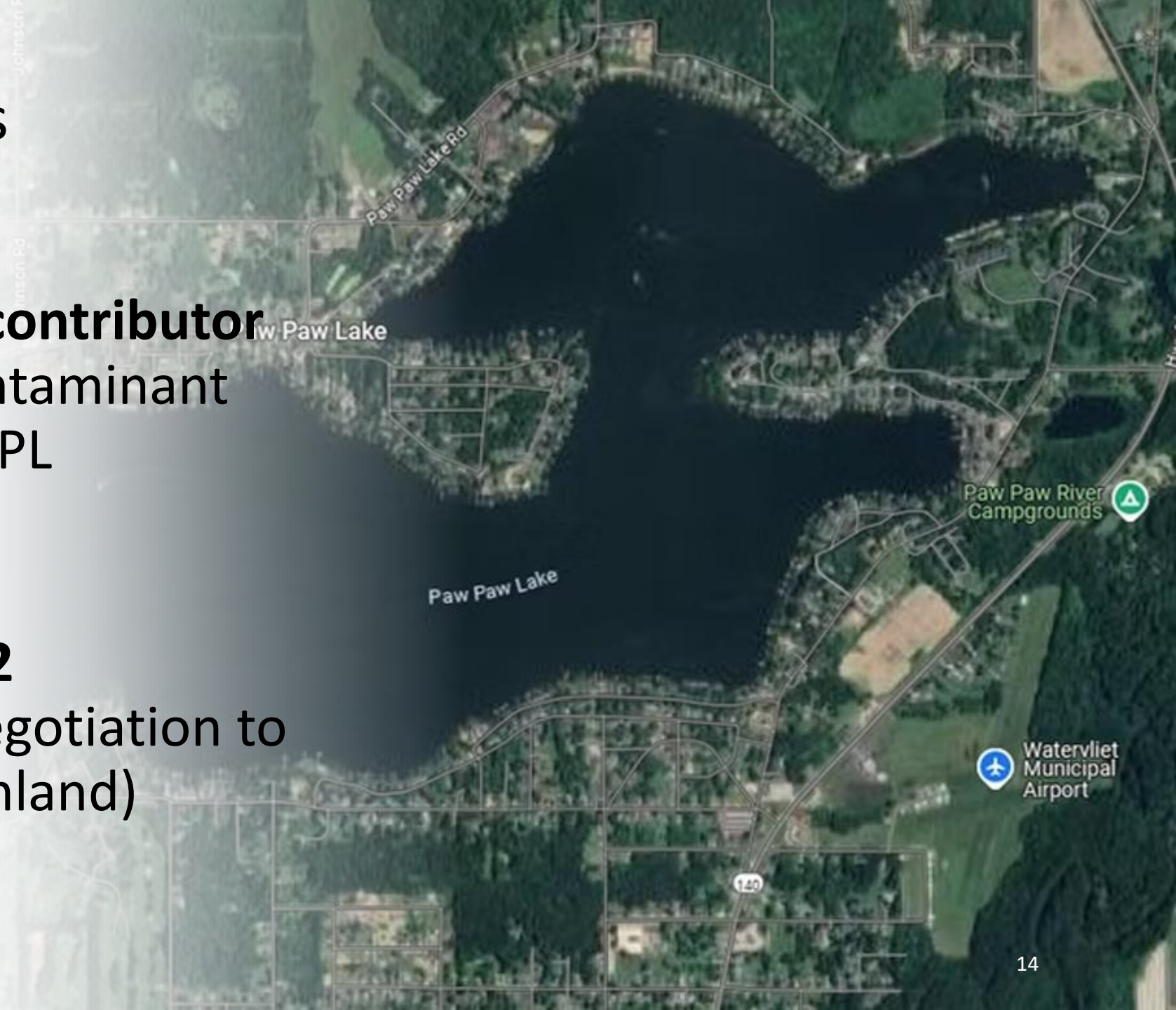
- Almost all of the water entering Paw Paw Lake is conveyed via drains
- 50+% enters via the Branch and Derby drain





- Watershed actions

- Heater farm - **#1 contributor** of agricultural contaminant runoff (now the PPL Conservancy)
- PPL road farm - **#2 contributor** (In negotiation to deactivate as farmland)





- Lake statistics

- Area

- ~922 acres

- Water volume

- ~29,645 acre feet water volume

**9,700,000,000 gallons of water**

- Residence time

- 2-years

~5 billion gallons of water enters/exits the lake each year

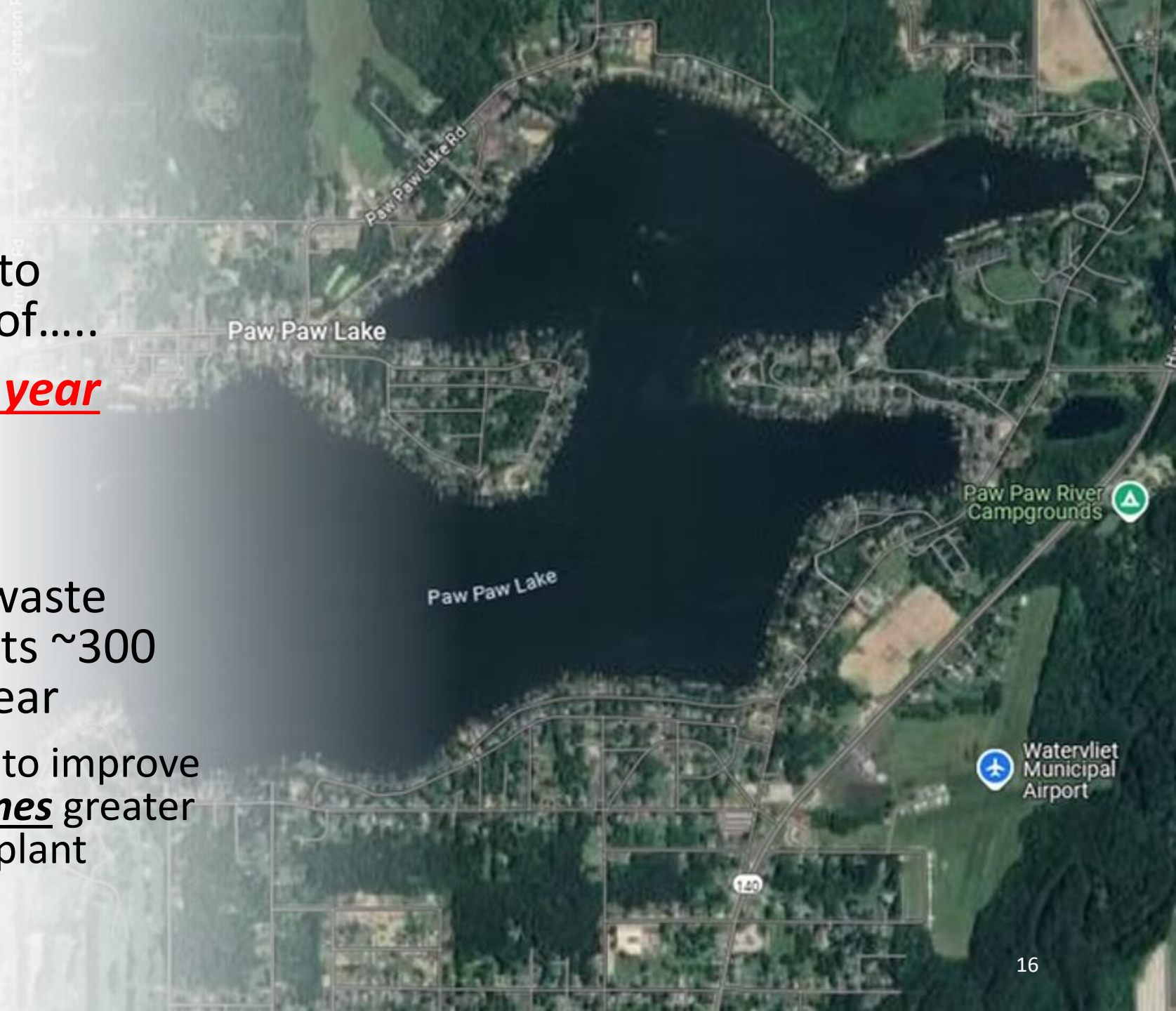


# • Water quality

- The PPLF is working to improve the quality of.....

*~5 Billion Gallons per year*

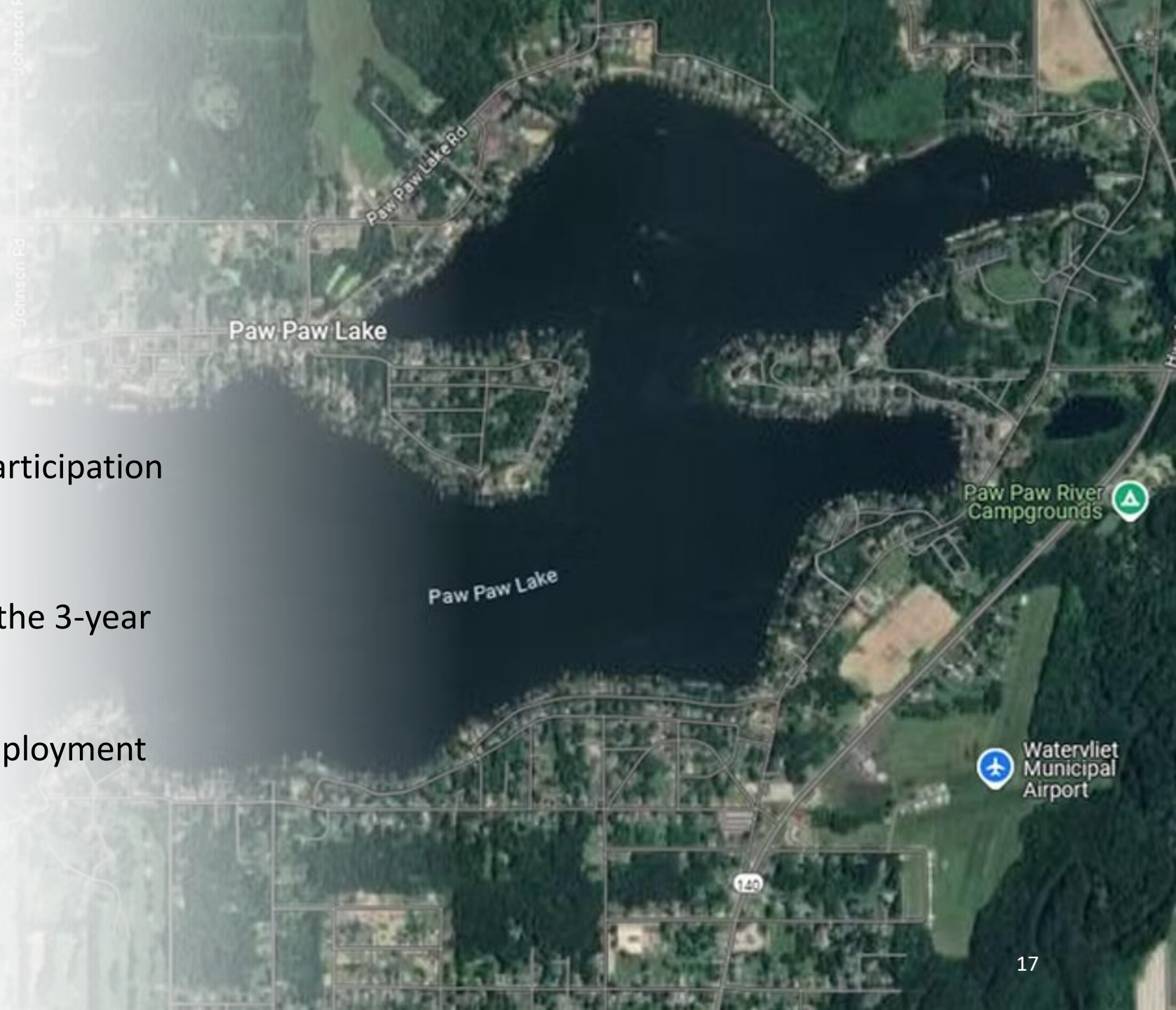
- Some context
- Coloma/Watervliet waste treatment plant treats ~300 million gallons per year
  - The PPLF is working to improve water volume **17 times** greater than the treatment plant





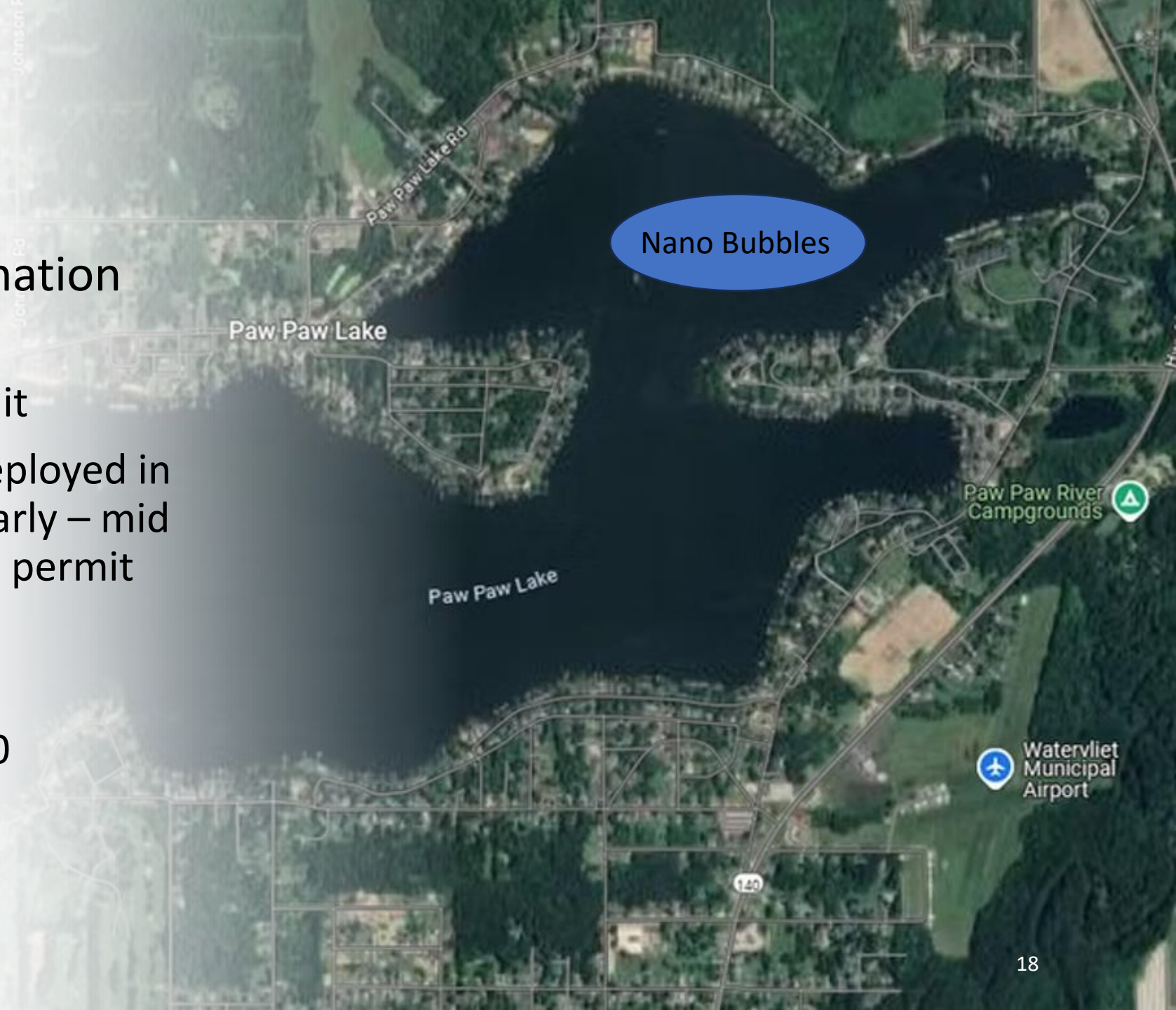
# • In-lake actions

- Biochar initiative
  - Began spring 2026
  - ~1850 biochar filters
  - 26 block captains
  - Almost 100% riparian participation
  - 3-year program
- Should see results over the 3-year program duration
- ~50 filters remain for deployment
- Spent to date \$169,000



# • In-lake actions

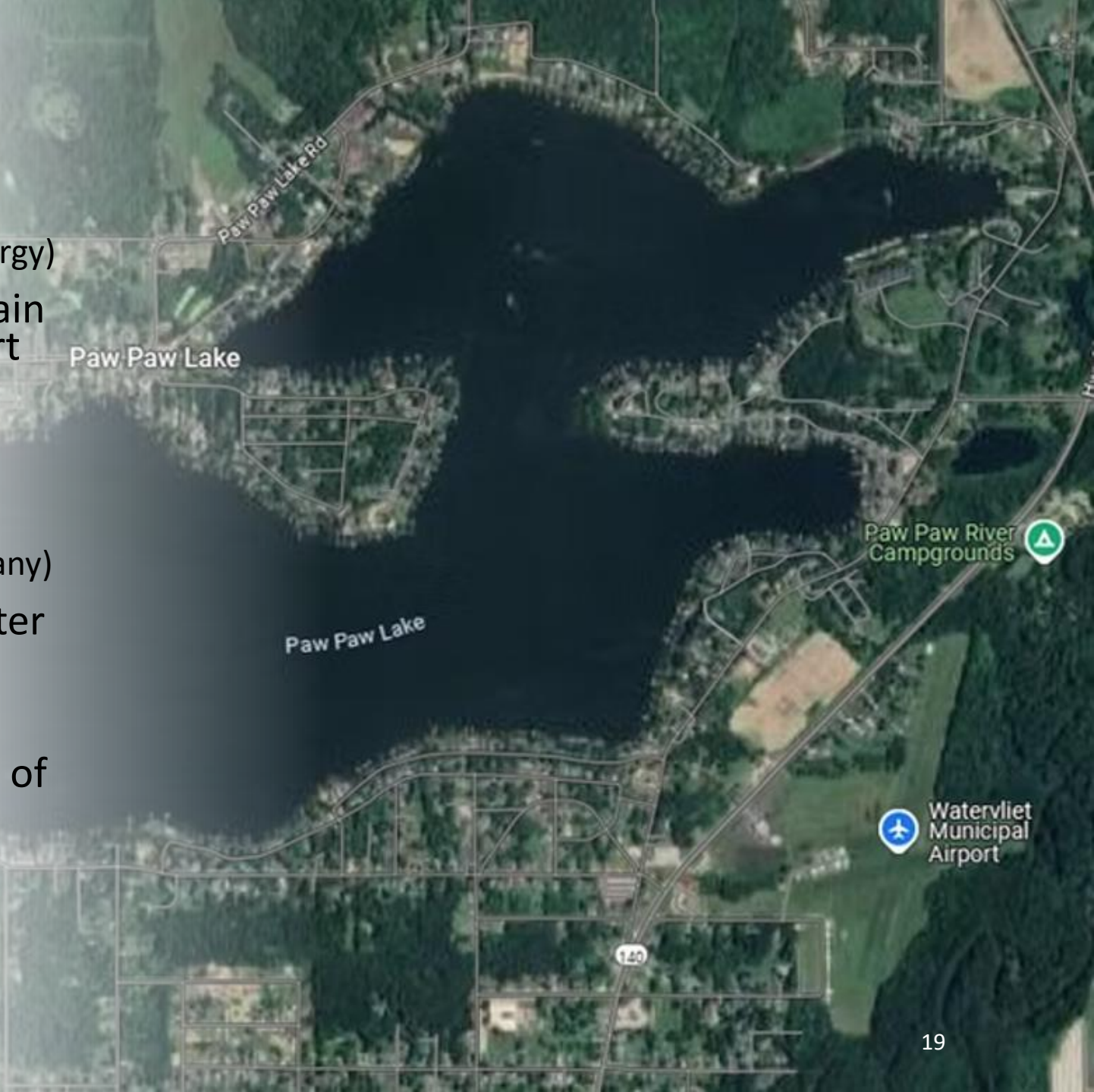
- Nano Bubble Oxygenation (test system)
  - Awaiting EGLE permit
  - Test system to be deployed in north lobe of lake early – mid 2027 (depending on permit issuance timing)
- Year 1 cost ~\$50,000
  - 1 test system





## • In-lake actions - Data

- EGLE (Environment, Great Lakes, and Energy)
  - Testing water quality at each drain location entering the lake as part of their fisheries study
  - Sharing data with the PPLF
- Progressive (Lake Management Company)
  - Testing water quality of lake water column
  - Sharing data with the PPLF
  - PPLF paying to have lab analysis of Phosphorus levels in the water column

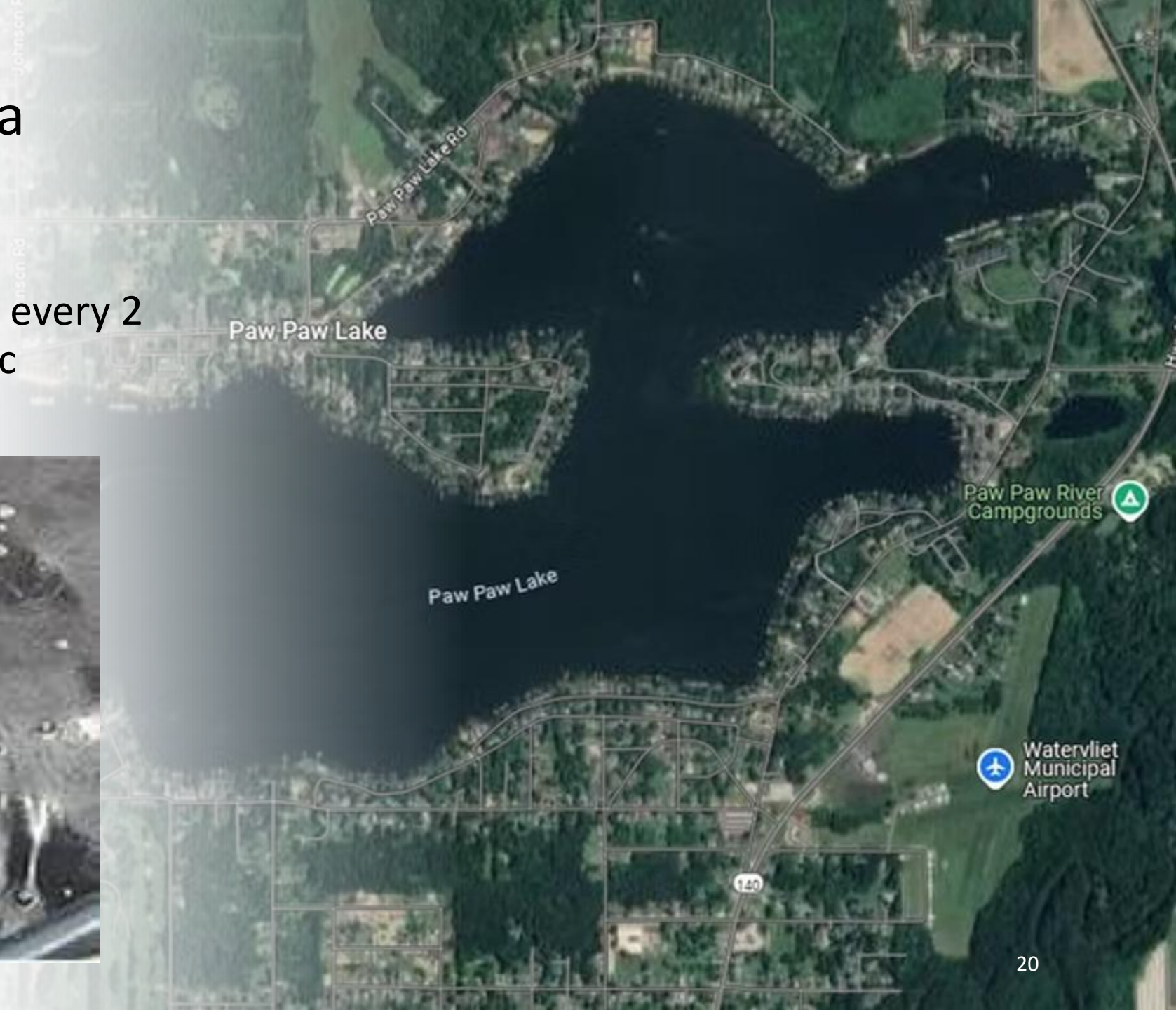




- In-lake actions - Data

- PPLF

- Testing water clarity every 2 weeks via Secchi disc measurements

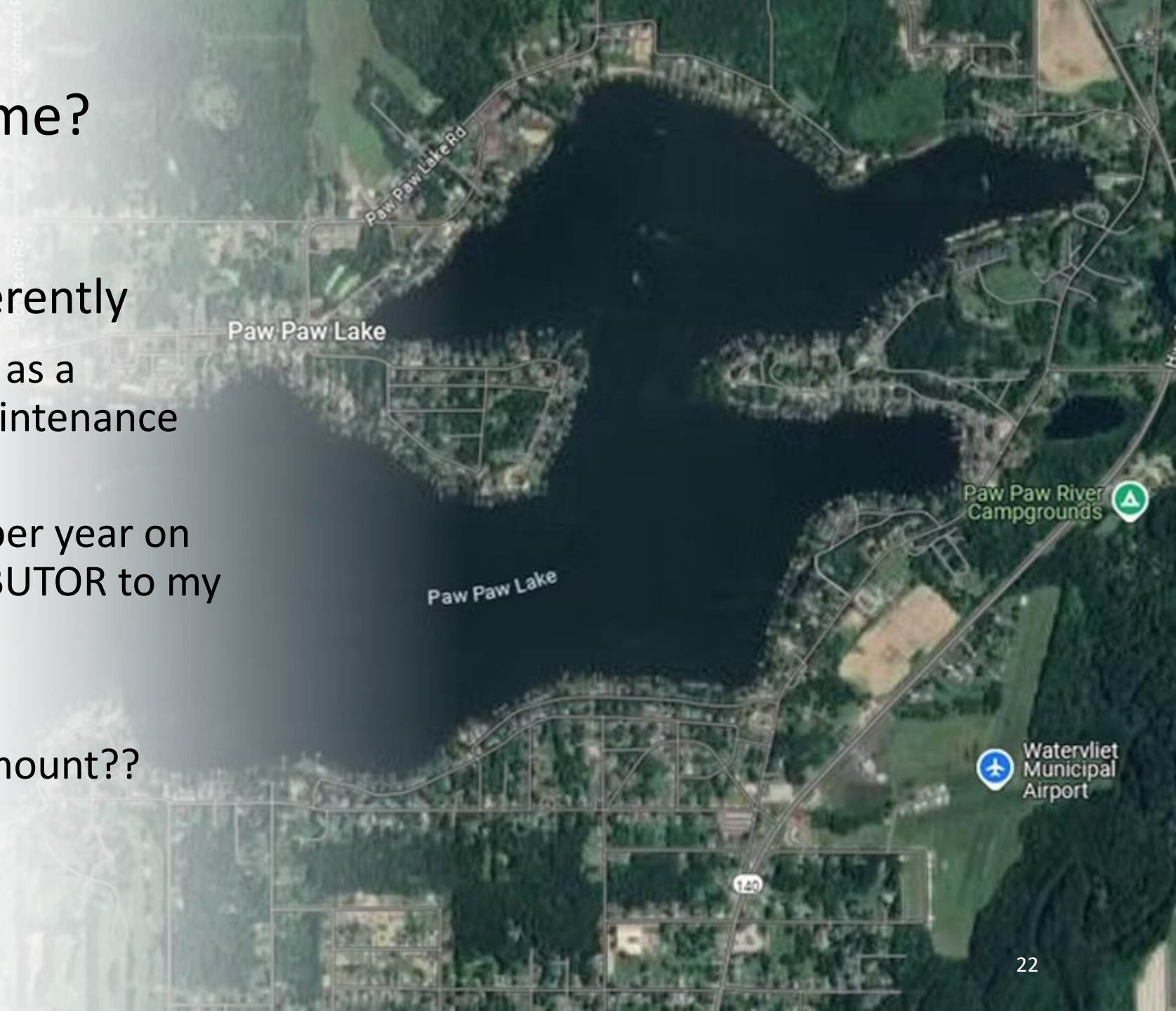




# • Initiative Timing and Costs

| Initiative                          | 2024 | 2025      | 2026 | 2027 | 2028       | Initiative Cost  |
|-------------------------------------|------|-----------|------|------|------------|------------------|
| Biochar                             |      |           | X    | X    | X          | \$369,000        |
| Nano Bubble Oxygenation test system |      |           |      | X    |            | \$50,000         |
| PPL Road Farm Acquisition           |      |           | X    | X    | X          | \$750,000        |
|                                     |      |           |      |      | Total Cost | \$1,169,000      |
|                                     |      |           |      |      |            |                  |
| Available Funds                     |      | \$200,000 |      |      |            | <u>\$200,000</u> |
| <b>Funds needed</b>                 |      |           |      |      |            | <b>\$969,000</b> |

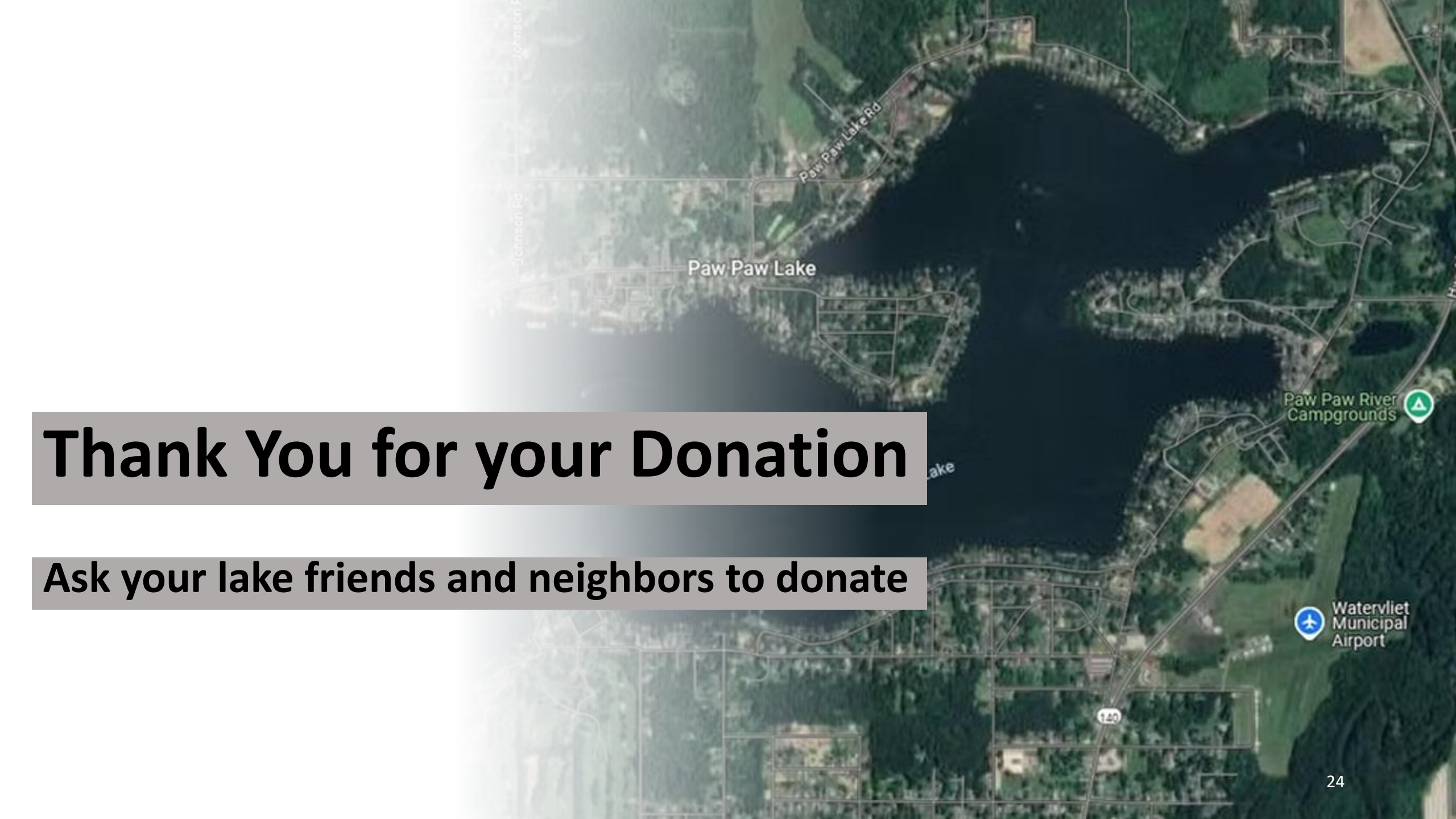
- What is it worth to me?
- We need to think differently
  - Think of water quality as a lakefront property maintenance item
  - What should I spend per year on the LARGEST CONTRIBUTOR to my property value?
  - What is the correct amount??





# Questions



A satellite map of the Paw Paw Lake area. The lake is a large, dark, irregularly shaped body of water. To the north and west of the lake, there are roads labeled 'Johnson Rd' and 'Paw Paw Lake Rd'. The text 'Paw Paw Lake' is written in white over the lake. To the east of the lake, there are 'Paw Paw River Campgrounds' marked with a green tent icon. Further south and east, 'Watervliet Municipal Airport' is marked with a blue airplane icon. A road labeled '140' is visible in the bottom right. The background is a mix of green forest and some developed areas.

**Thank You for your Donation**

**Ask your lake friends and neighbors to donate**