

Baker Lake Ecology

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Topics

- Water Quality
- Lake Treatment
- Fish
- Carp Derby
- Future of Baker Lake

Water Quality

- Water Quality testing to be performed in 2024
- 2 Options
 - CSU's lab ~ \$80 (no analysis or recommendations, doesn't include E. Coli and Coliform testing)
 - 3rd party testing with analysis + recommendations ~ \$1500+ (more comprehensive)
 - Includes E. Coli and Coliform testing

What you can do to help water quality

Try and keep fertilizers, grass clippings, leaves and other yard debris out of the lake



Deter Geese from hanging out on your property year round

- Geese can significantly impact water quality by contributing to nutrient loading through their feces
- Also causes issues with community areas such as docks, the park, & the beach.



Goose Deterrents



Lake Treatment

Lake Treatment Goals

1. Reduce sediment & muck buildup
2. Improve water quality & clarity

Muck Pellet application



Shoreline Treatment

- Lake residents can treat their shoreline with Muck Away as well
 - Follow recommended application information

*email with more info coming soon



Additional Treatment Options

- All-Natural Phosphate Binder
- Clarifies Water Without Impacting pH
- Eliminates the Need for Heavy Metal Treatments
- Permanently Binds Phosphates Improving Water Quality & Clarity
- Safe for recreational ponds, horses, livestock, birds, pets, fish, wildlife, and the environment



Additional Treatment Options

- Consumes Suspended Organics
- Removes Excess Nutrients & Noxious Odors
- Binds Phosphates for Long-Lasting Water Clarity
- Billions of Beneficial Bacteria Improves Water Quality
- Safe for recreational ponds, horses, livestock, birds, pets, fish, wildlife, and the environment



Future Lake Treatment Options

- Depends on:
 - Water quality testing
 - Funding

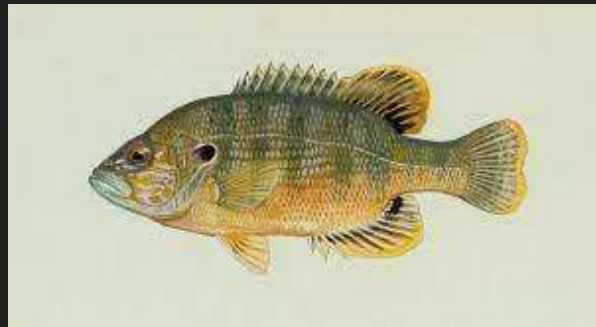
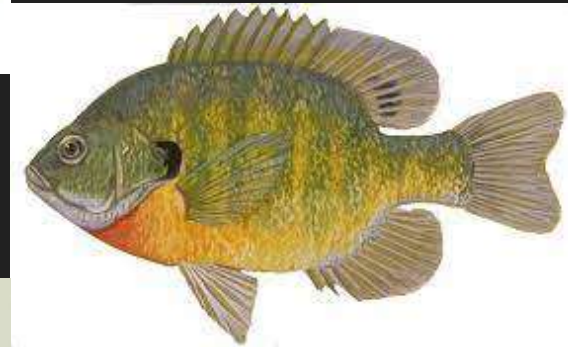
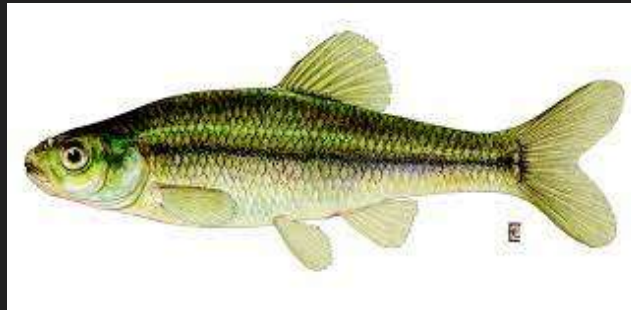
Fish

Types of Fish in Baker Lake

- Large Mouth Bass
- Crappie
- Yellow Perch
- Bigscale Logperch
- Sunfish
- Bluegill
- Fathead minnows
- Channel Catfish
- Grass carp
- Common carp (invasive)
- *Walleye

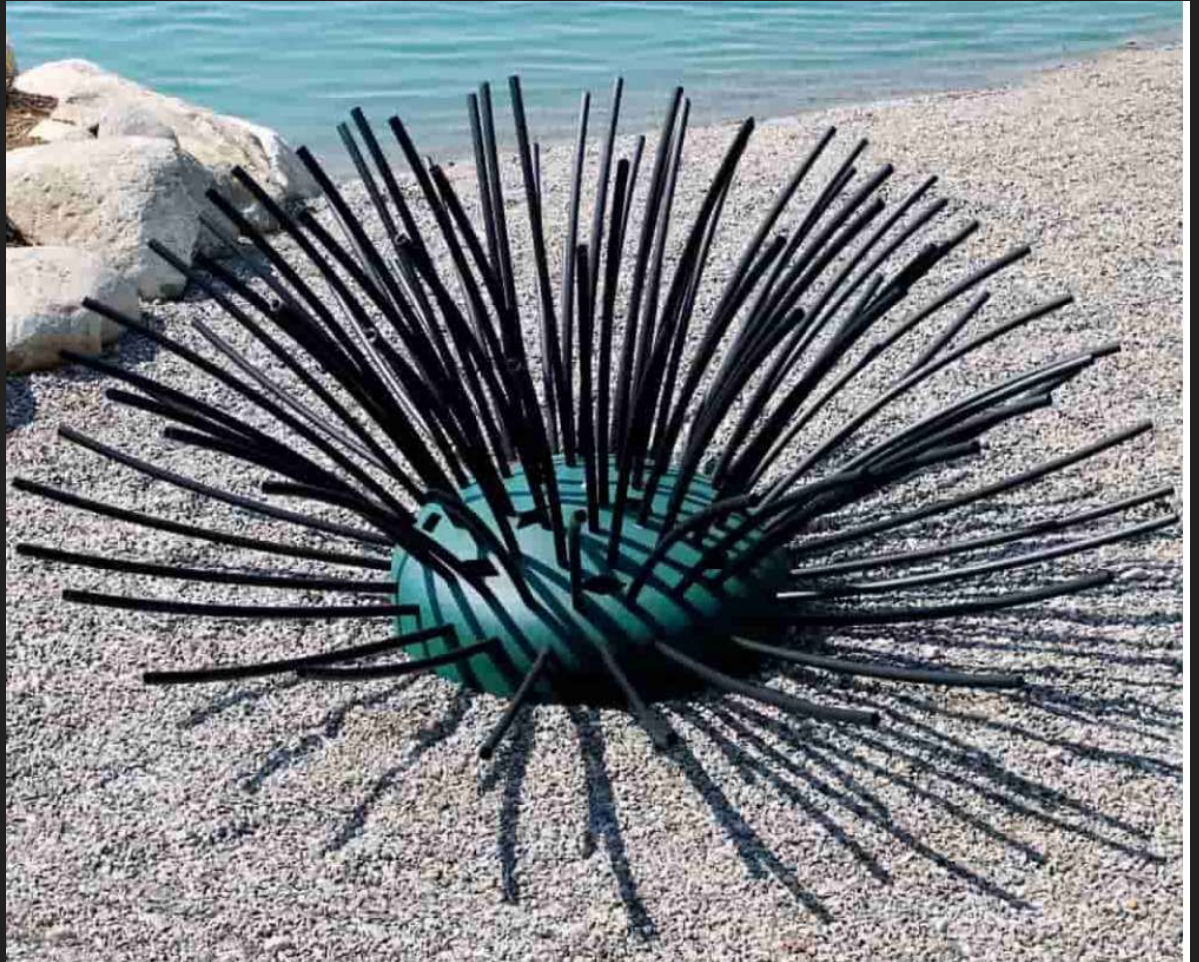
Fish Stocking

- Spring of 2023
 - 20,000 fathead minnows @ \$1,505
- Spring of 2024
 - 20,000 fathead minnows + Bluegill + Sunfish @ \$1,505
- Will continue to stock baitfish in 2025 and others as needed



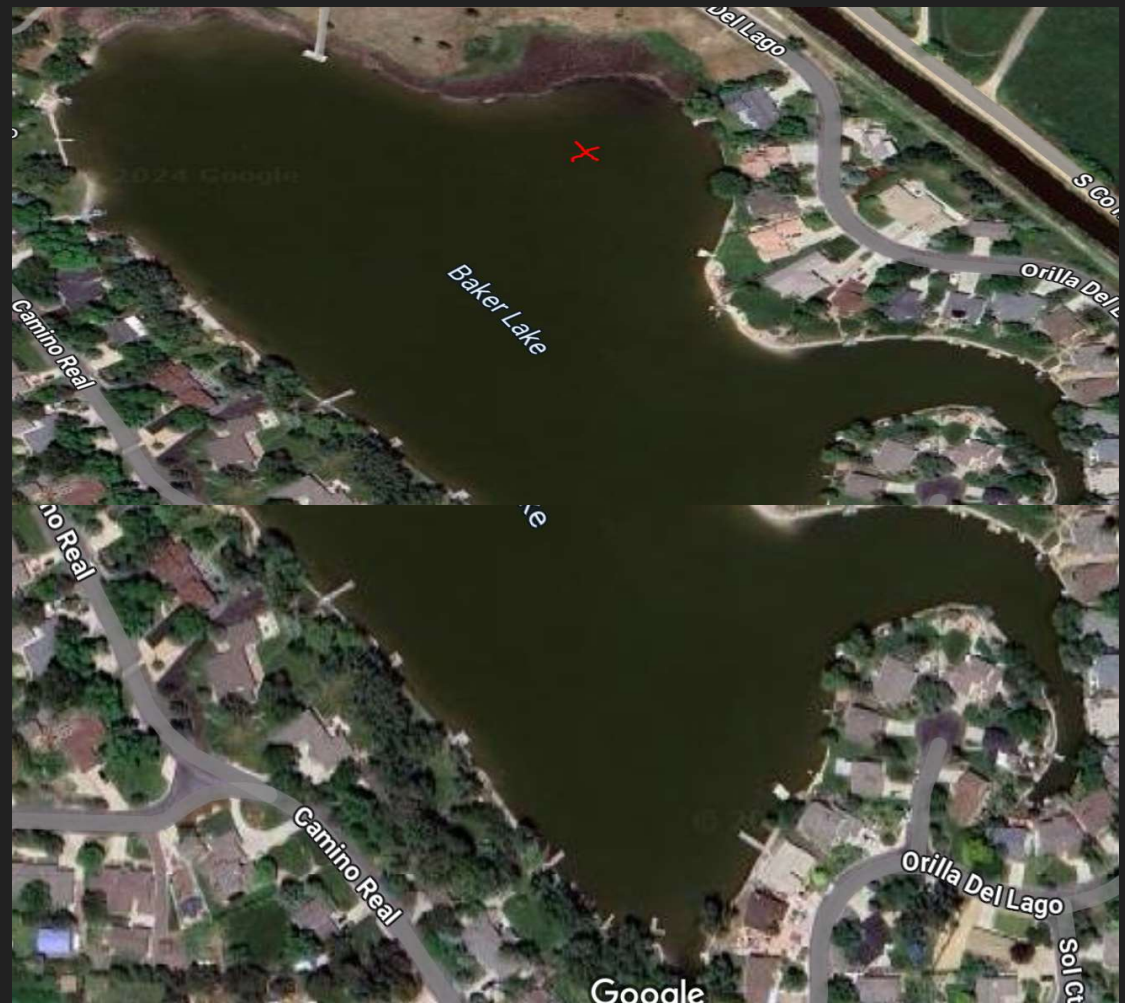
Fish Habitats

- 3 Added to lake this year
- Why?
 - Creates a sanctuary for baitfish to hide and reproduce
 - Reduce future dependence on fish stocking



Fish Habitats

- Marker buoy indicates location of habitats
- Situated deeper (~5ft) for good year round habitat





Deter these birds
from eating our
fish...

- Pelicans
- Cormorant



Carp Fishing Derby

June 1st, 2024

Baker Lake Carp Fishing Derby

- Carp Derby will be held on June 1st , starting at sun up
 - Why?
 - Remove invasive common carp from the lake and reduce the # of large catfish as well
 - Proceeds will go towards the ecology fund
 - Community fun
- Award ceremony will start at 5pm
 - \$5 registration fee (per member household and per guest household)
 - Over \$800 dollars of prizes
 - Food & drink provided
 - Emails have gone out to the membership with the details (PLEASE PRE-REGISTER)

Carp Fishing Derby Sponsors

- **Mount Vista Greens** - Deryle & Carol O'Dell
- **Fossil Creek Tile** – Steve Bangs
- **Windsor Mill Tavern** – Tim Downey
- **Tiho's Tequila Bar & Restaurant** – Tim Downey
- **Frontier Printing** - Steve Beddoe
- **239 Old Town North** - Frank Heine & Lindsey Santillanes
- **NoCo Home Loans** - Jessica Foster
- **A-OK Chem-Dry** – Mike & Sara Elder
- **Find Colorado Real Estate** - Davis & Eileen Van TilBerg
- **Generous neighbor** (anonymous)
- **Barry Kroemer**
- **Scheels**

OVER \$1,200 IN DONATIONS

Carp Derby Prizes Include:

- Trophies & medals
- Golf gift certificate: 18 holes & 2 buckets of range balls – Mount Vista Greens
- \$100 Scheels gift card
- Windsor Mill Tavern & Tiho's Tequila Bar & Restaurant gift certificates
- Stanley tumbler
- Fishing gear
- And so much more...

Future of Baker Lake

Future Challenges

1. Water supply
2. Lake sediment
3. Water quality

Water Supply

○ Need to secure our future water supply...

Lake Sediment

- Baker lake is losing depth each year due to sediment or “silting in”
- Muck pellets are good at targeting key areas, but is not a fix for this issue long term
- Dredging will be necessary to prevent lake loss eventually

Water Quality

- Future testing & analysis will help to determine a course of action/treatment
- Future treatment options:
 - Water treatment products previously mentioned
 - Bottom-up aeration