

BARNES LAKE WATER QUALITY

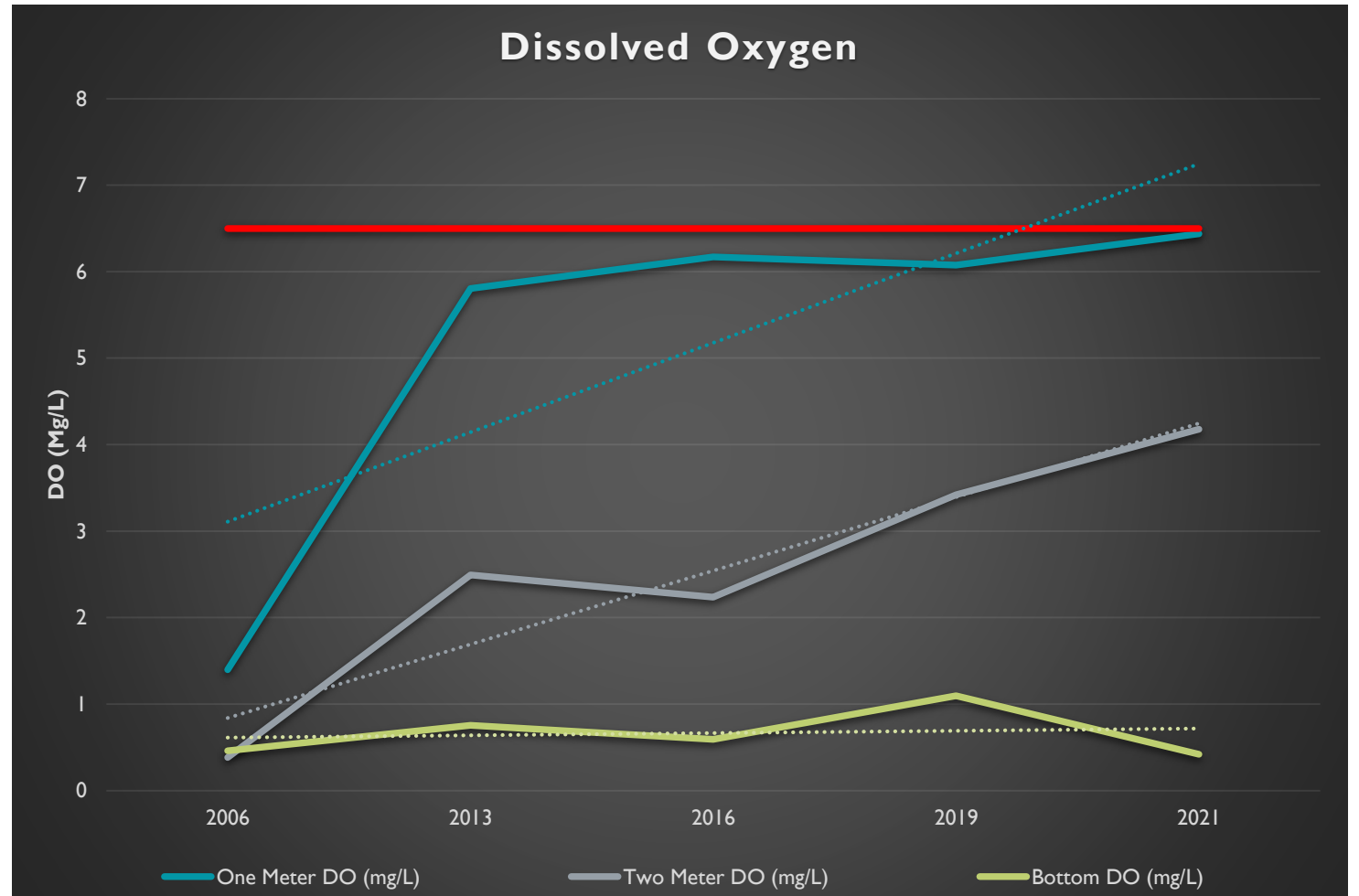
Data Collected:

- Dissolved Oxygen
- Water Clarity
- Total Nitrogen
- Total Phosphorus
- Chlorophyll (an indicator of algae)
- Water levels



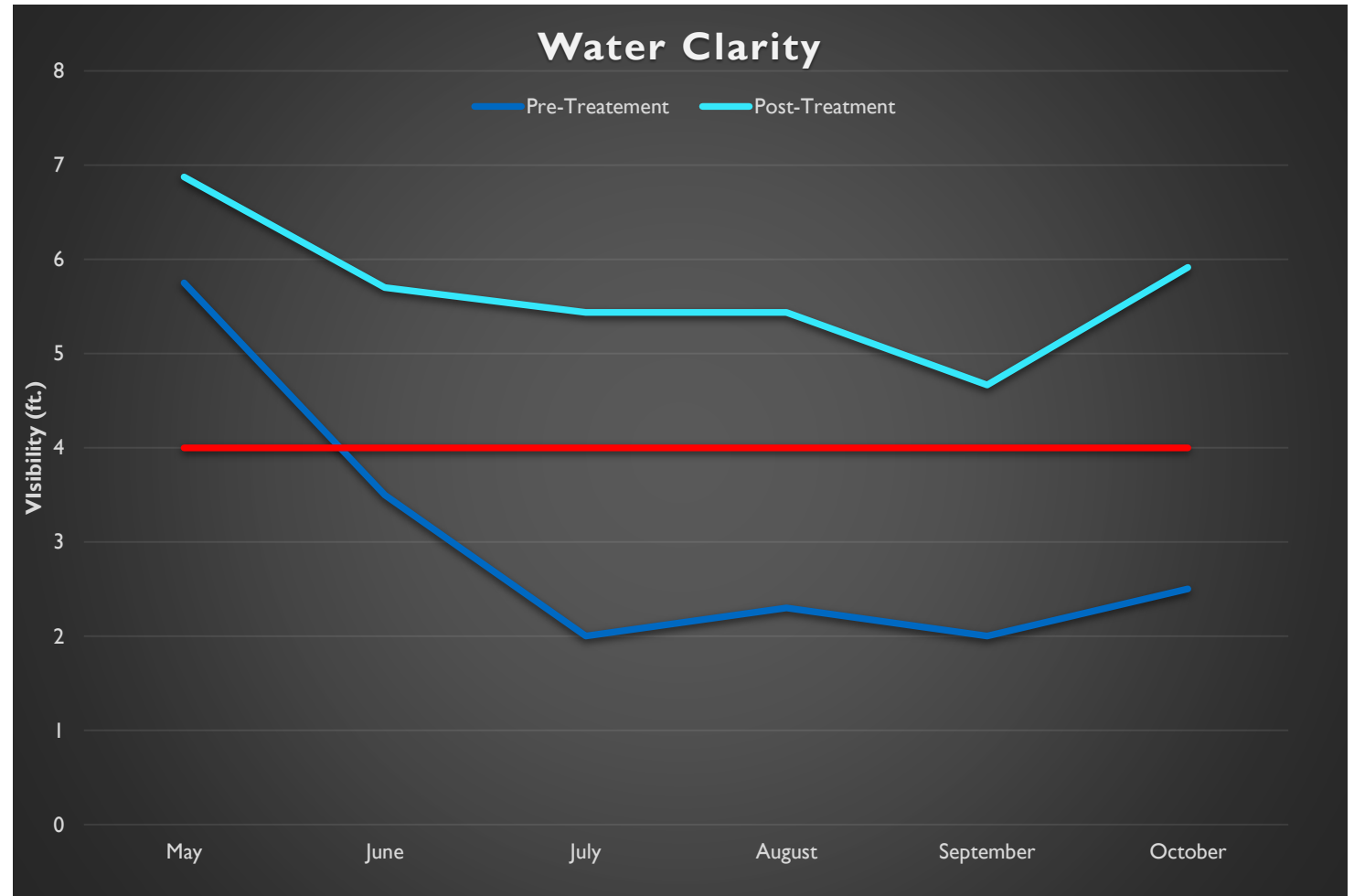
DISSOLVED OXYGEN (DO)

- Essential for aquatic life
- Indicator of water quality
- Normal DO ranges from 6.5 -10 milligrams per liter for lakes like Barnes Lake
- State Standard: 6.5 Mg/L



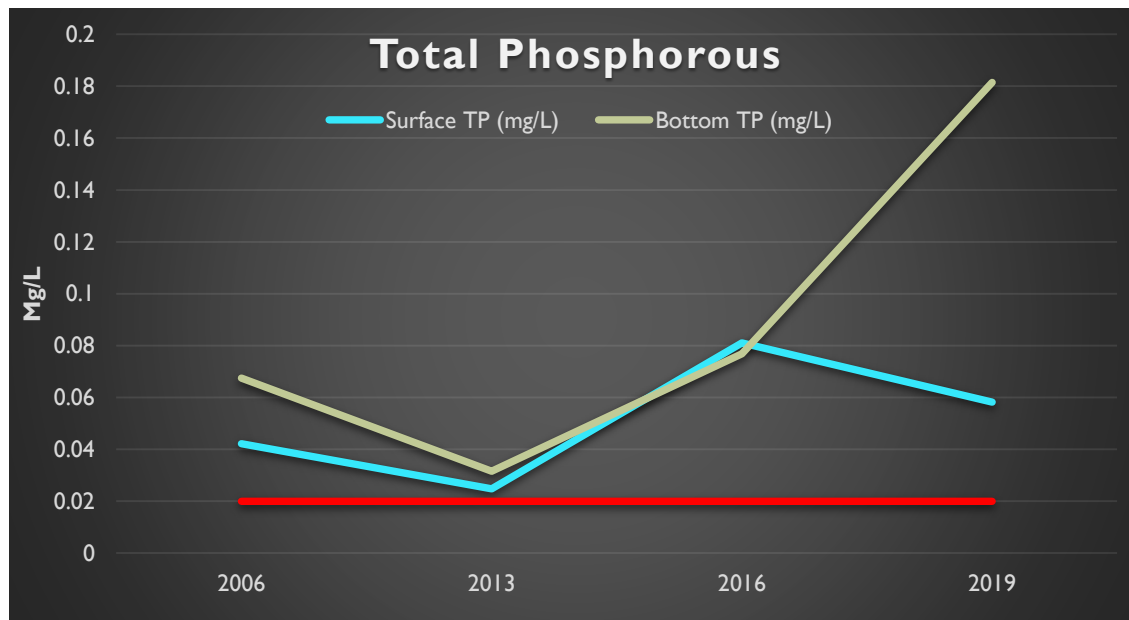
WATER CLARITY

- Secchi Disk method
- State Water Quality Standards for swimming water bodies is four (4) feet



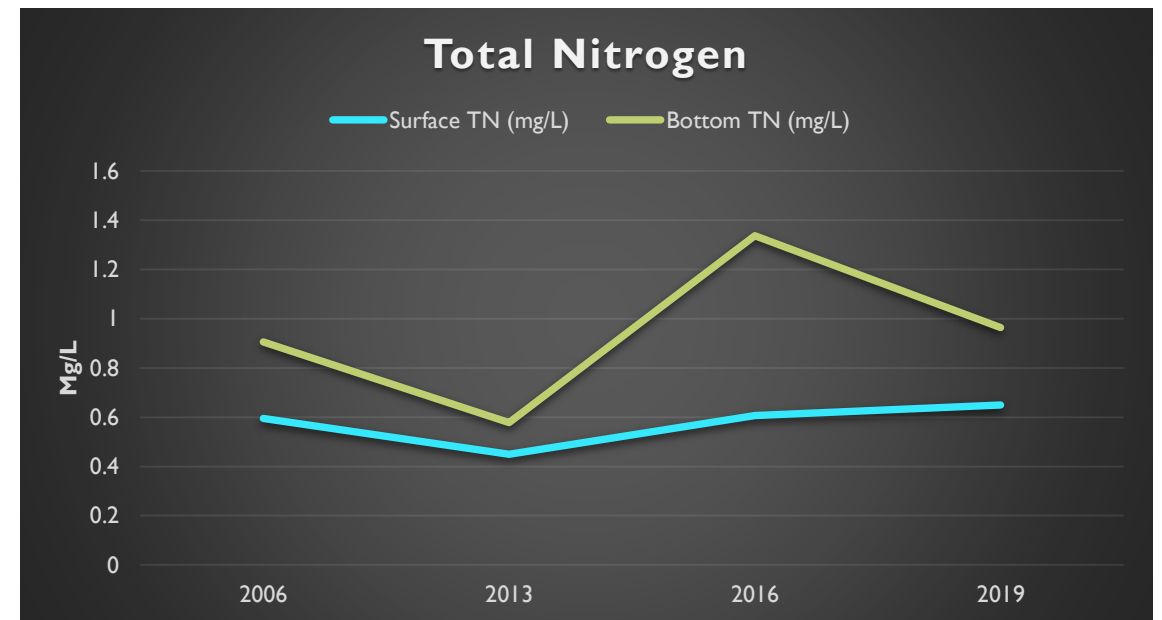
NITROGEN & PHOSPHORUS (NUTRIENTS)

- Excess nutrients can stimulate algae growth



***.02 Mg/L = State Standard**

- Excess nutrients can be caused by over fertilizing

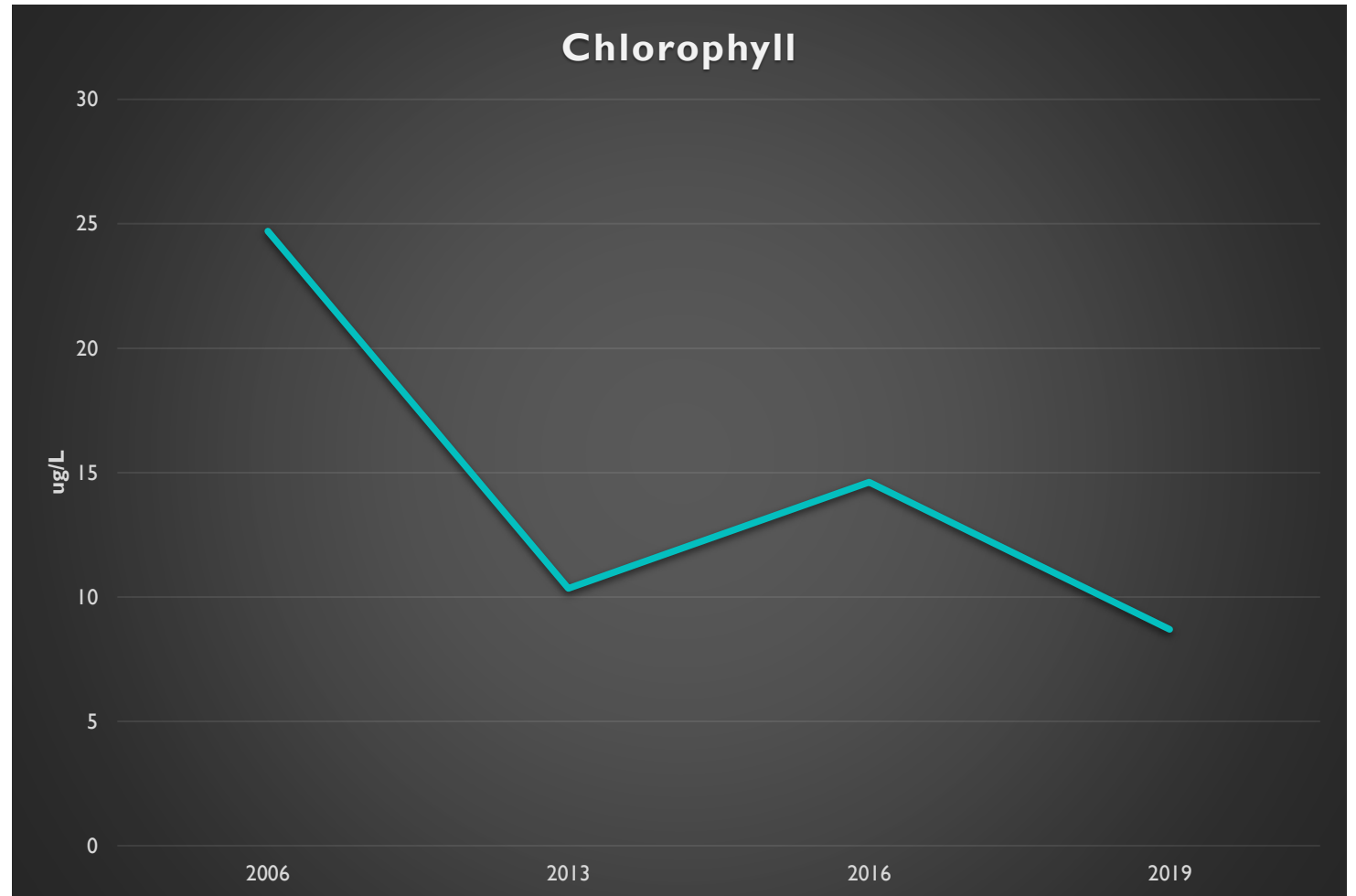


***No State Standard**



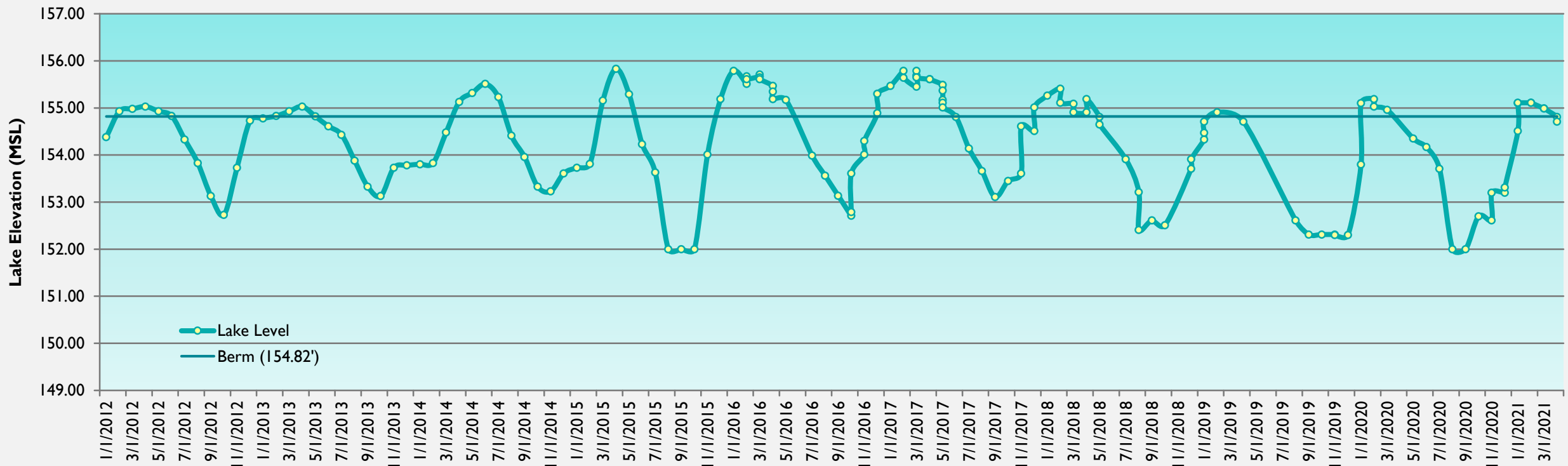
CHLOROPHYLL

- Indicator of algae growth
- Affects water clarity
- No toxic algae has been found in Barnes Lake



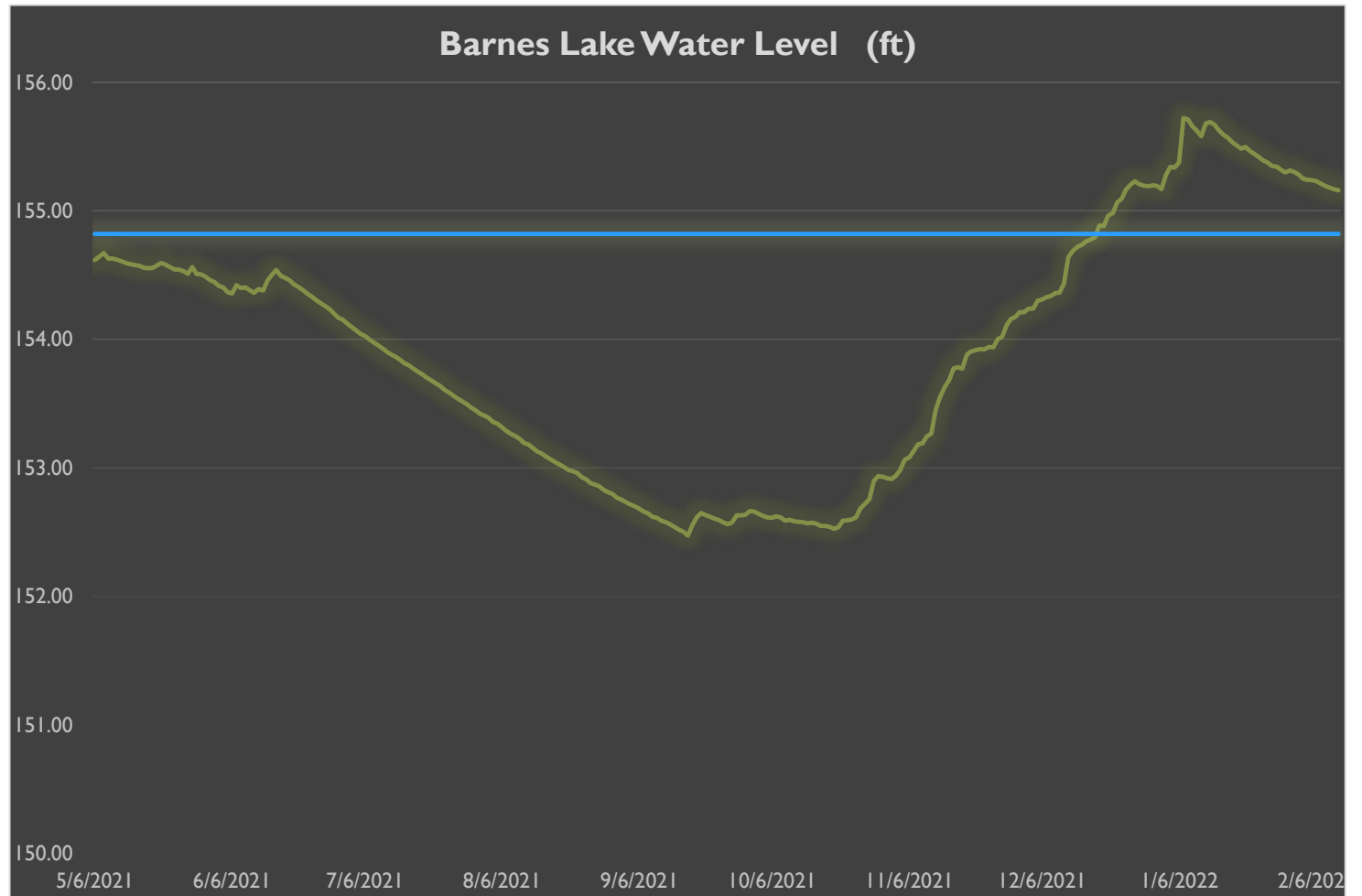
WATER LEVEL MONITORING

- Flexible Leveler installed in 2017 to control beaver related high water
- Hobo water level data logger installed in 2021



HOBO WATER LEVEL DATA LOGGER

- 15 minute accuracy
- Housed near condos



QUESTIONS?

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