



Grindstone Lake Association

2020 Annual Meeting

July 18, 2020

9-10:30 AM

Agenda

Welcome and Updates – Donna Carlson

Financial Update – Mike Warden

Grindstone Lake Association Governance – Donna Carlson

Grindstone Lake Foundation – Cindy Parker, Mike Warden

Water Quality - Dan Tyrolt, LCO Conservation Department



THANK YOU!!!

Newsletter Design and Production
Dee Hobbie

Lake Level Monitoring Gauge
Mike Shal
Tony and Debbie Pfendt

New and Renewing GLA members

Lake Planning Workshop – Key Lake Protection Priorities

- Strengthen participation of property owners to protect the Lake
 - Improve e-communication: emails, website, Facebook
 - Create in-person opportunities for protection efforts of the lake
- Expand efforts to prevent establishment and spread of aquatic invasive species (AIS)
 - Increase boat monitoring hours for paid and volunteers
 - Improve signage at boat landings for AIS inspections and cleanings
- Reduce phosphorus into the lake
 - Provide education, assistance and funds to lake property owners to install buffers and native plantings
 - Protect the cranberry bog from development

Preventing Invasive Species

Clean Boats Clean Water – Boat Landing Monitoring

- Received grant for 2020 inspections and monitoring
- July 1, 2020 implementation due to COVID-19
- Expansion of monitoring hours through volunteers
- Installed AIS signage at 2 boat landings

AIS Survey

- Limited Survey in August 2020
 - \$2,660 donated towards \$3,500 cost
- Apply for 2021 Grant for larger survey
- Investigate AIS monitoring software



Preventing Aquatic Invasive Species



Curly Leaf Pond Weed (CLP)

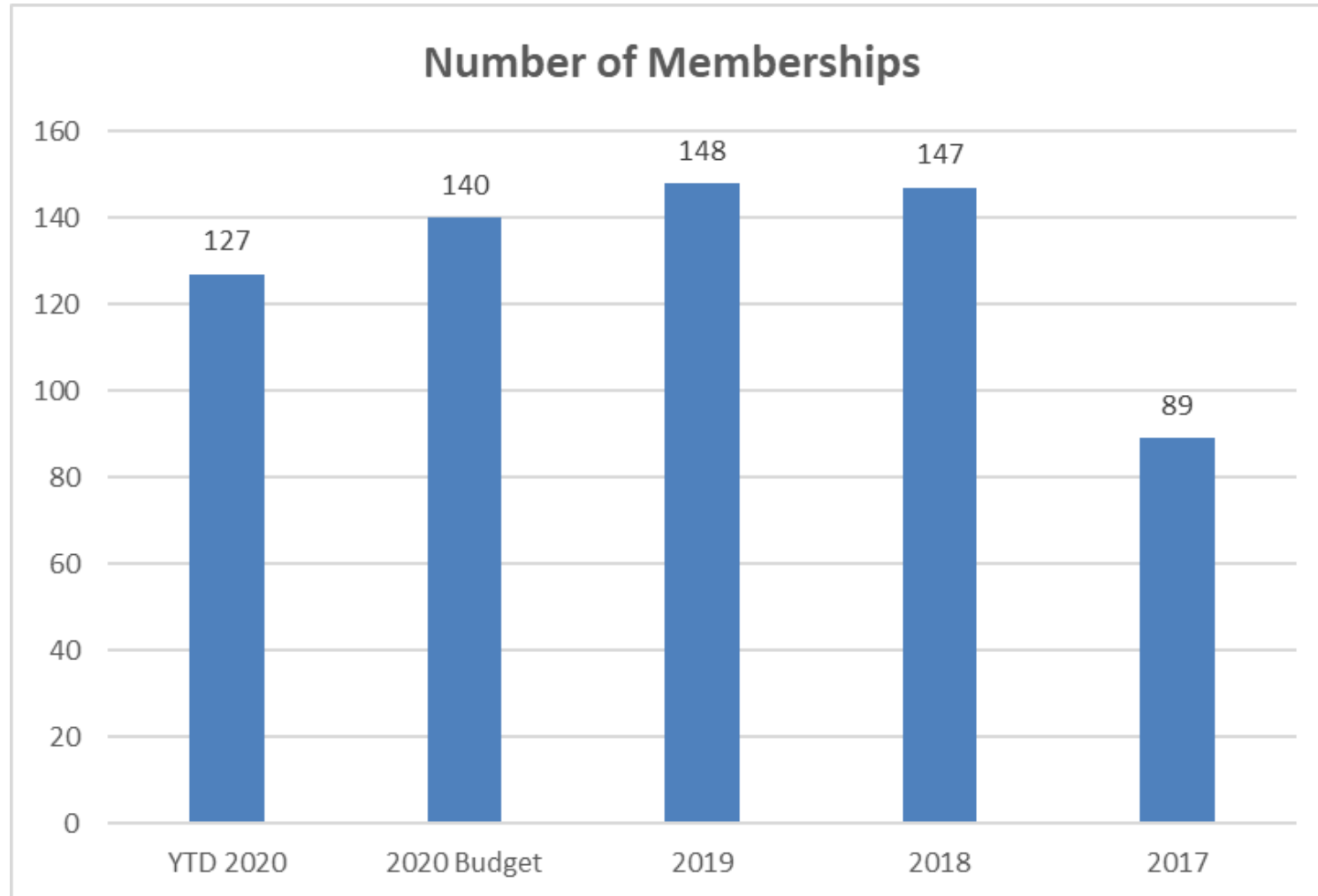
- A patch (30 yds by 60 yds) near creek entrance to Grindstone Lake in Little Grindstone (originally discovered in 2011)
- Previously chemically treated to eradicate – not effective due to strong current
- Manual harvest using large weed rake was successful in small area in 2020
- 2021 plans
 - Manual removal mid-May
 - Seek DNR permit to test barrier placement over patch
 - NEED: 2-3 volunteers with john boats and rakes
 - Work with DNR on signs to make boaters aware of AIS in area to prevent spread.

Loon Watch (SOEI at Northland College)

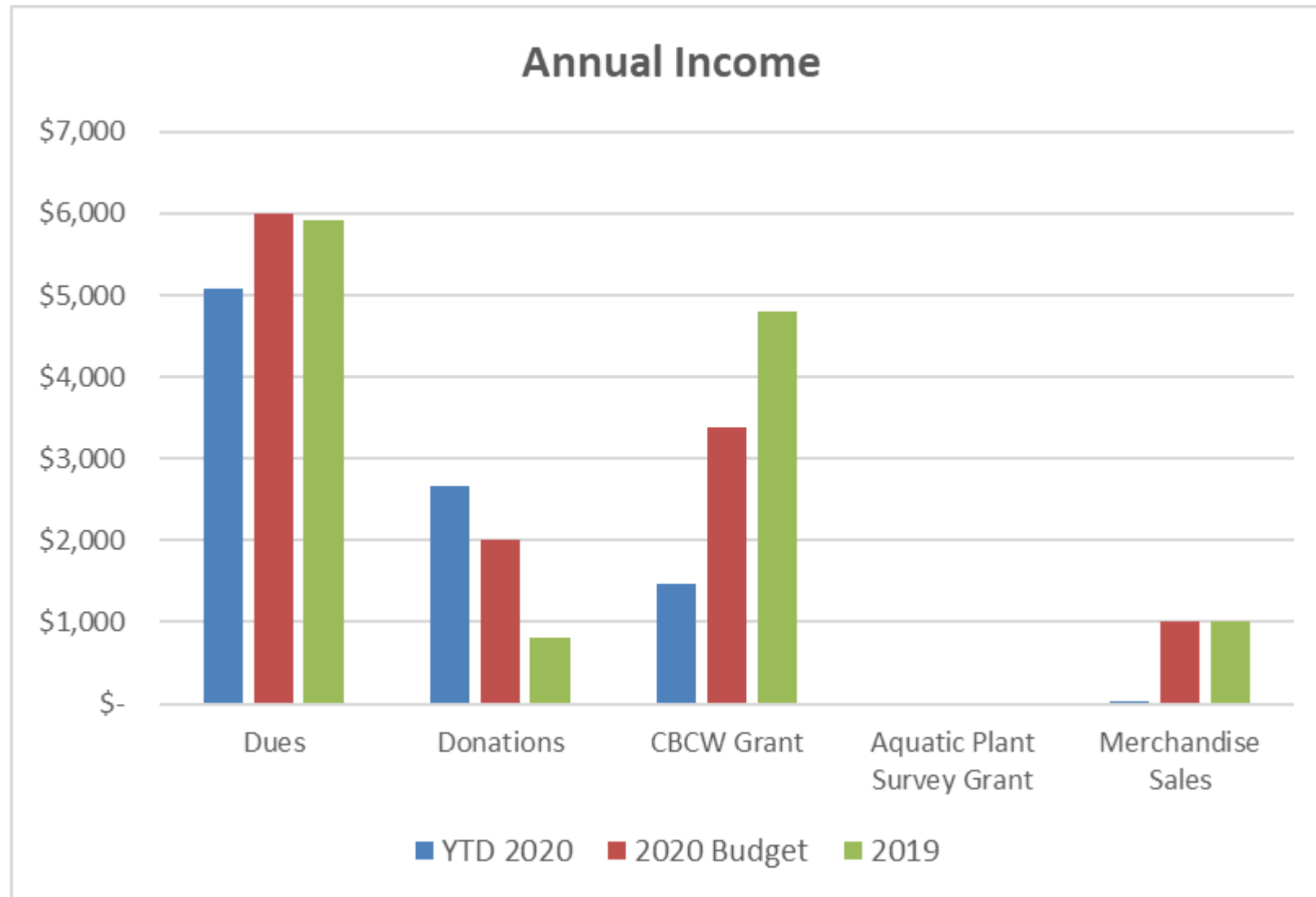


- Weekly survey of lake to monitor
 - Adult loons, Loon pairs, Nests, & Chicks
- Survey began the last week of April and continues through fall migration
- TODAY: One-day survey every 5 years on 258 pre-selected lakes in northern Wisconsin
- Grindstone Lake Data as of 7/1/20
 - 7-13 adult loons typically sighted
 - Wind big factor in observations
 - 1 nest found near islands on Grindstone; 2nd nest found in Little Grindstone
 - Chicks have hatched, 1 chick observed riding on mother; other chick if survived may have been under her wing
- **PLEASE STAY 3-4 boat lengths away from mother and observe with binoculars to protect chick(s)**

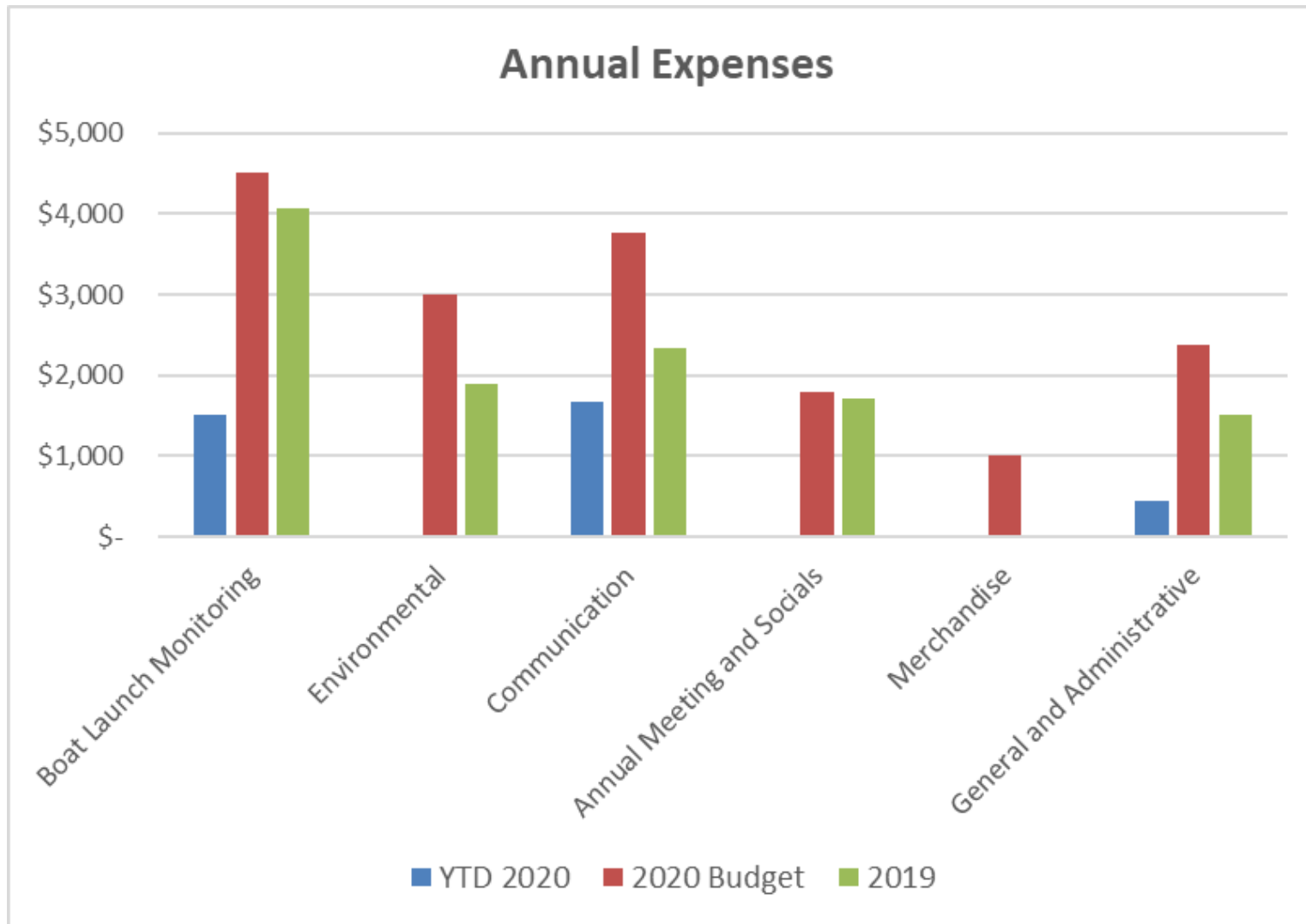
Financial Report - Memberships



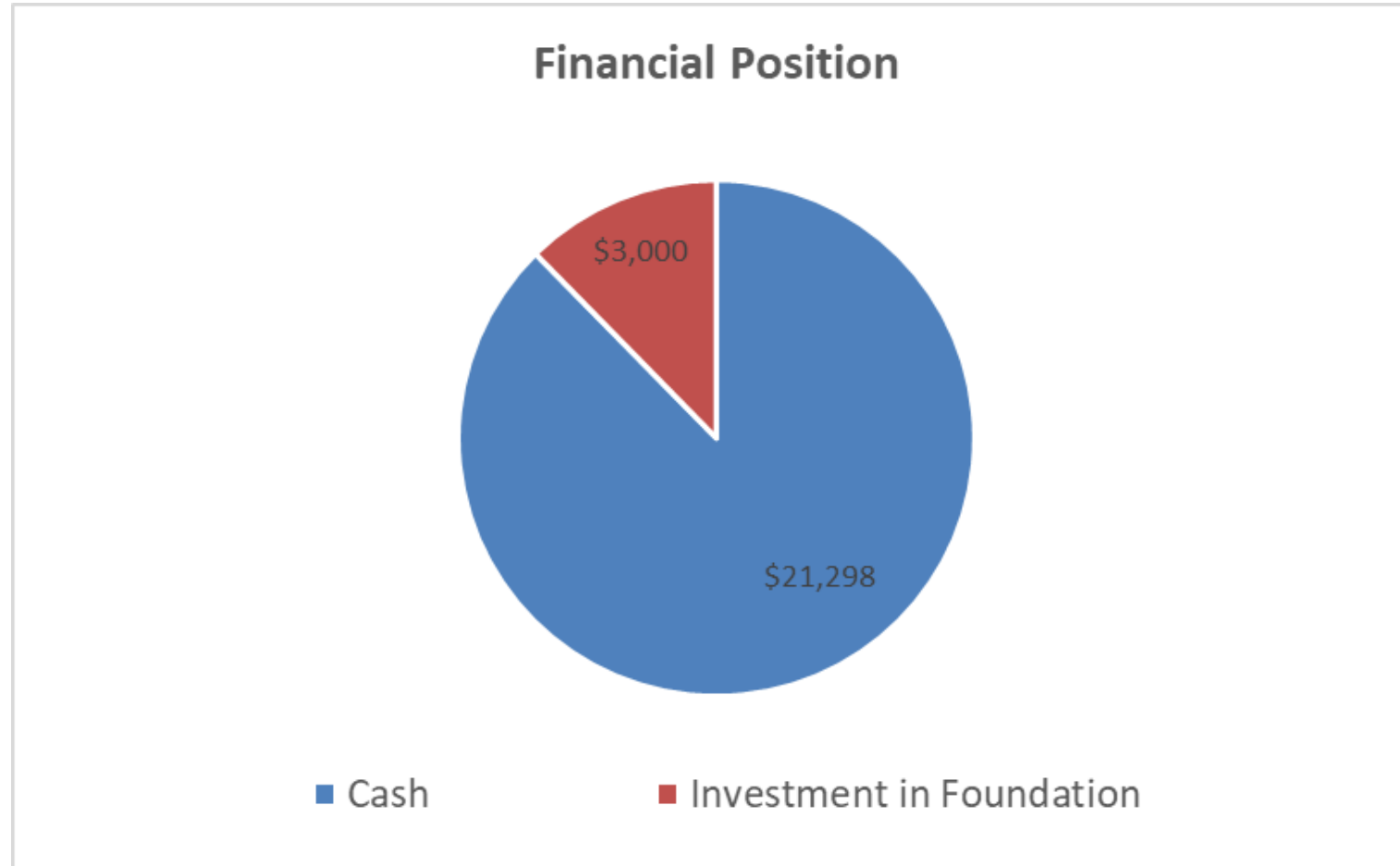
Financial Report - Revenue



Financial Report - Expenses



Financial Report – Financial Position



Board of Directors (for Review and Approval for 2020-2021)

Officers

Donna Carlson – President

Michael (Mike) Warden – Treasurer

Cynthia (Cindy) Parker – Secretary

Board Members

Cheryl Contant – Membership

David Kieffer – Communications

Stephen Boger – Clean Boats Clean Water

Rich Post – Invasive Species

Sean Humphreys – Loon Watch, Invasive Species

Karen Mumford – Lake Management Plan

Dag Sohlberg – COLA Liaison/Community Relationships

Opportunities for Involvement

GRINDSTONE LAKE NEEDS YOUR SUPPORT!

Shoreline Restoration

ALS monitoring and removal

Grant Submission

Marketing and Social Activities

Digital Media

grindstonelake.org

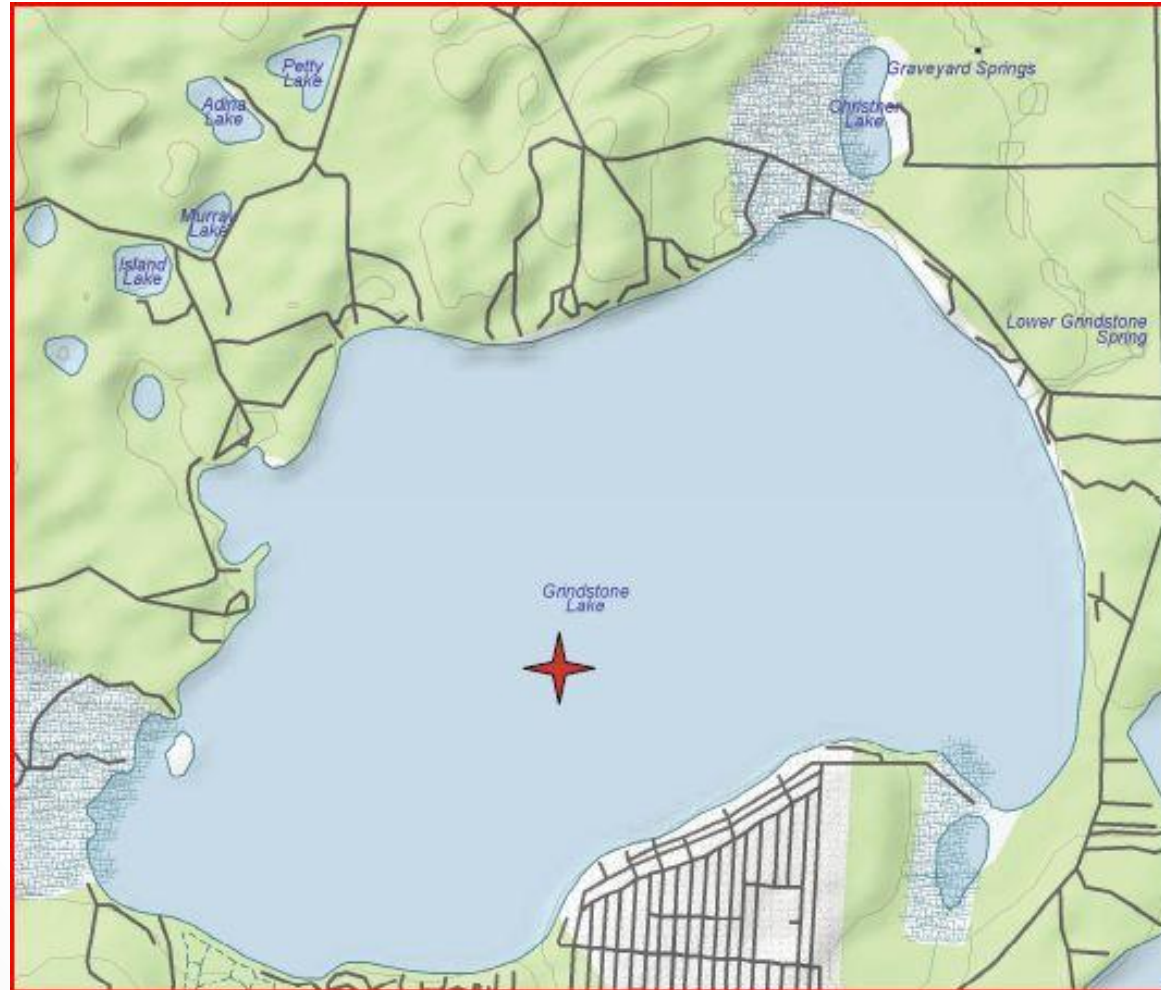
Sign up and get involved!

Grindstone Lake Protection and Planning Workshop

Water Quality

**Dan Tyrolt, LCO Conservation
Department**

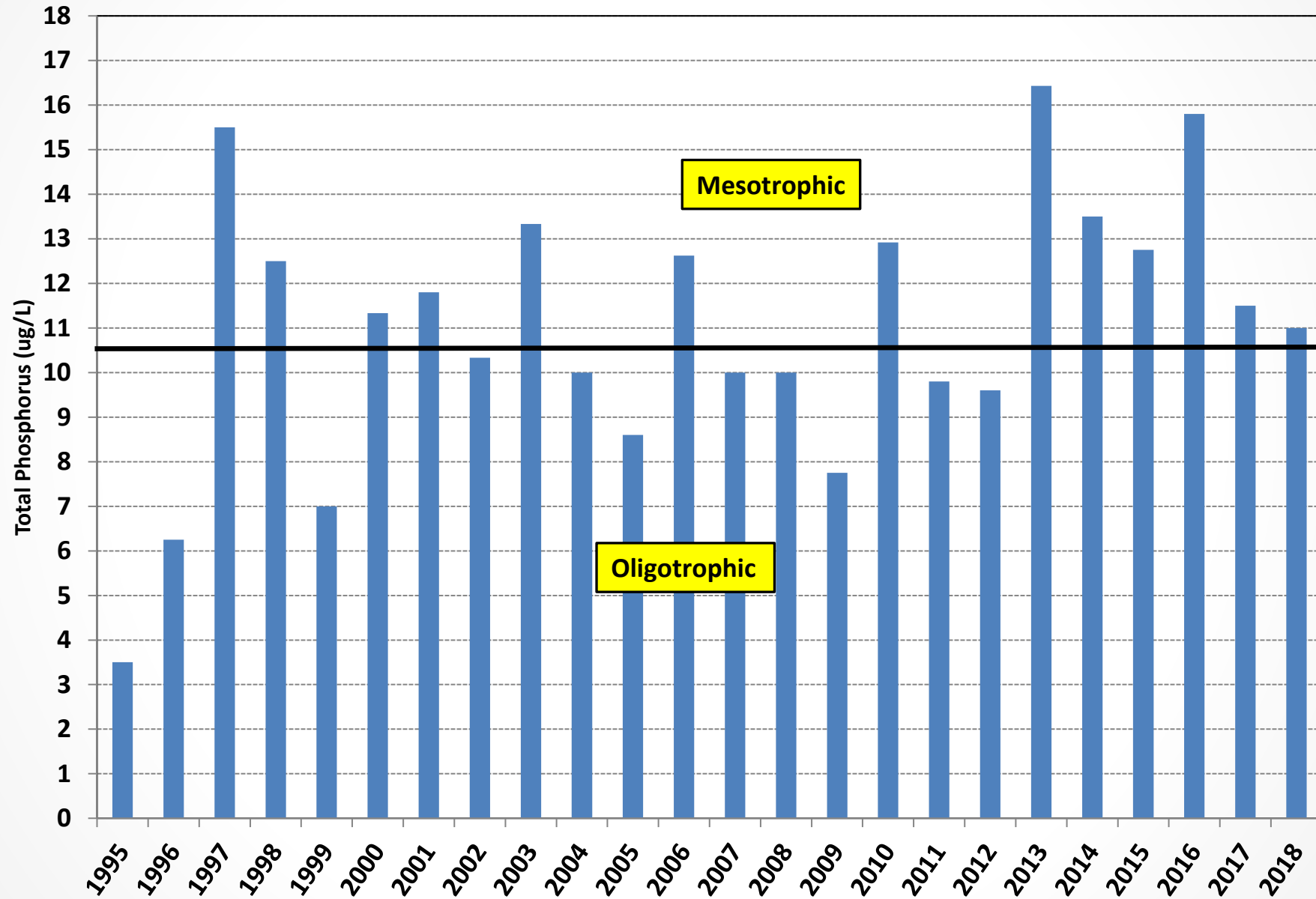
Grindstone Lake Sampling Site – Deep Hole



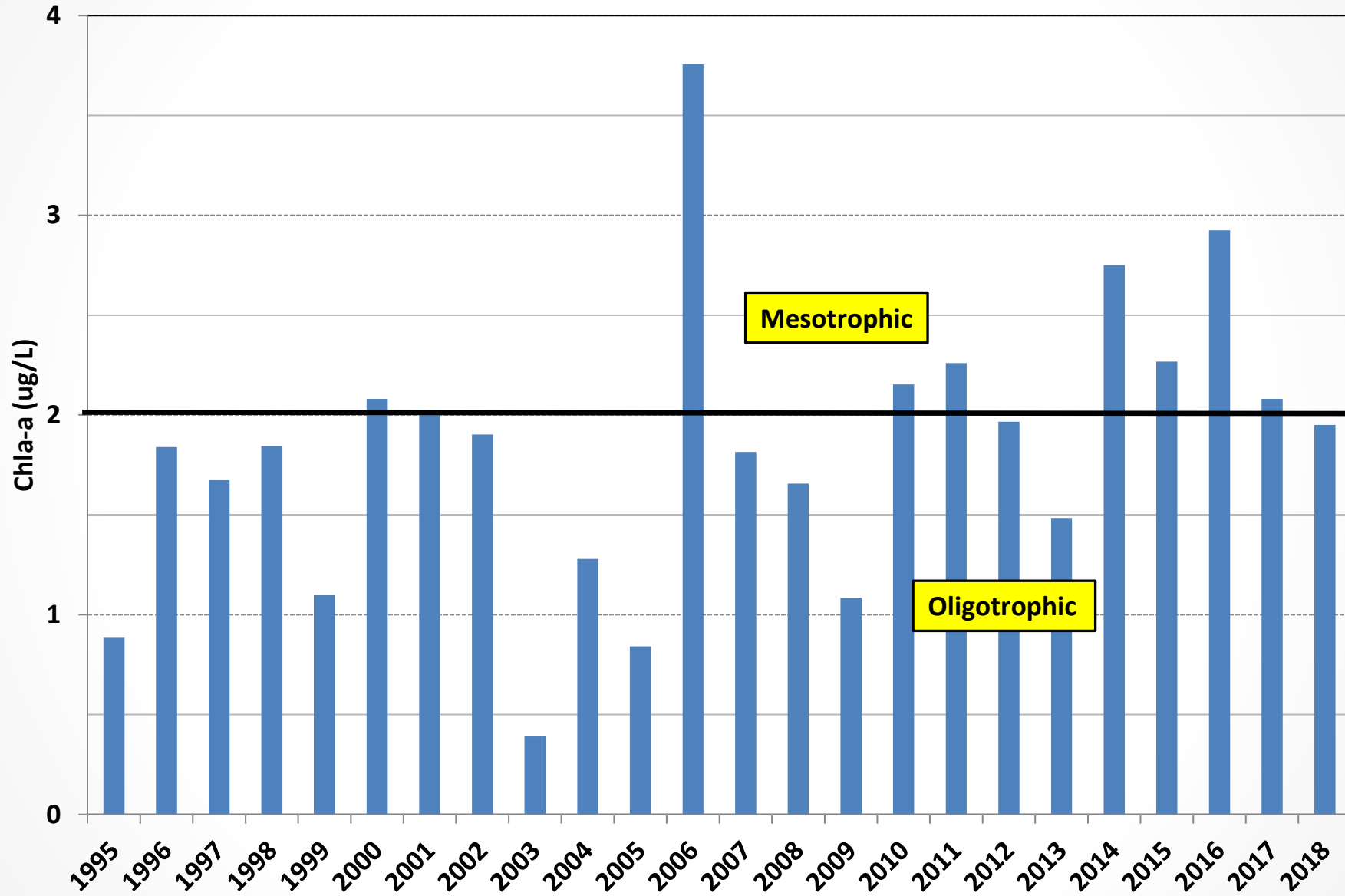
Sampling Parameters

- Total Phosphorus (6/15 – 9/15)
- Chl-a (7/15 - 9/15)
- Secchi disk depth
- Profiling
 - Temperature
 - Dissolved Oxygen
 - pH
 - Specific conductivity
 - Total Dissolved solids
- Phytoplankton
- Zooplankton
- Macro-invertebrates (critters on the bottom)
- Cyanobacteria

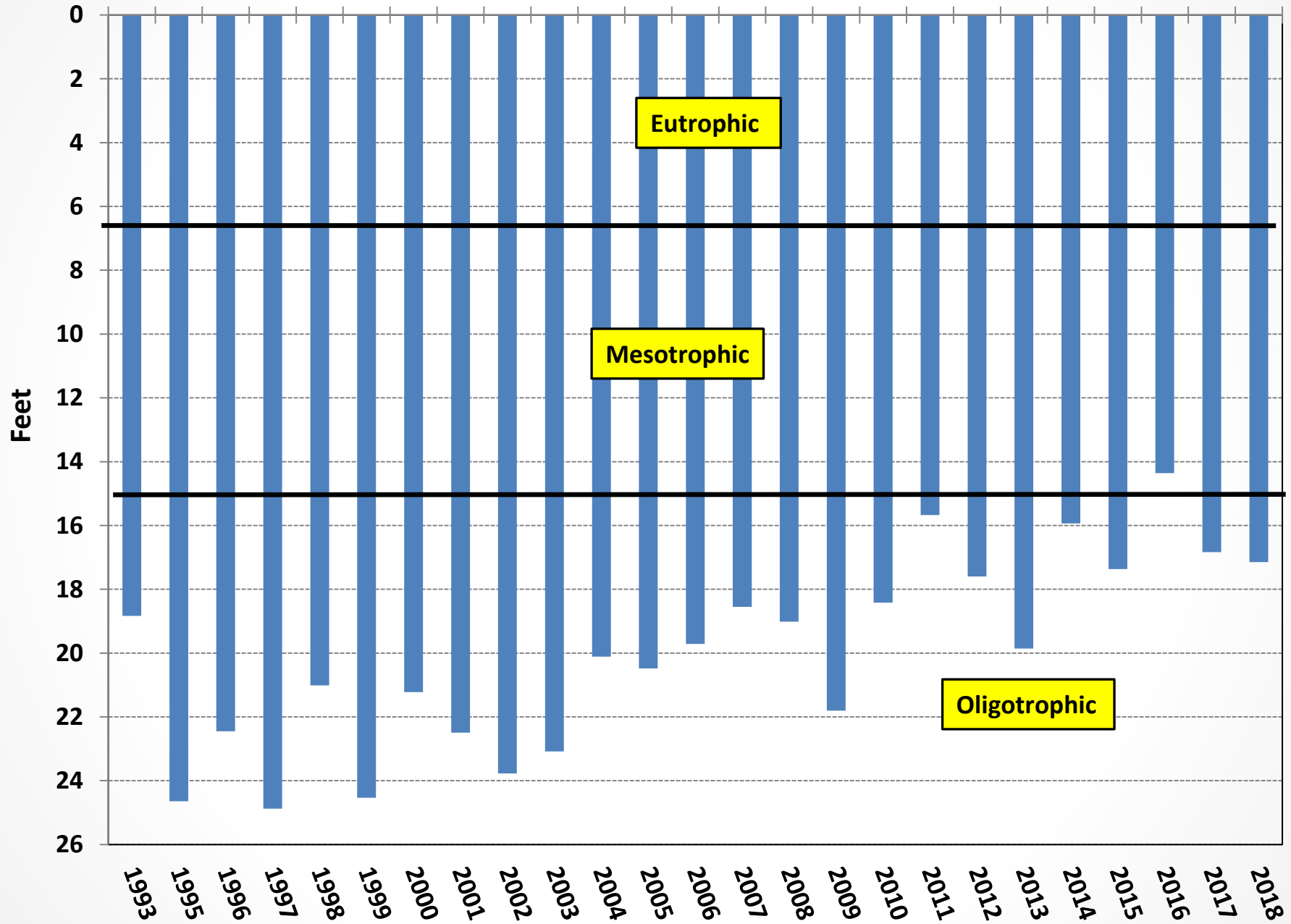
Grindstone Lake Annual Average Summer Total Phosphorus Values



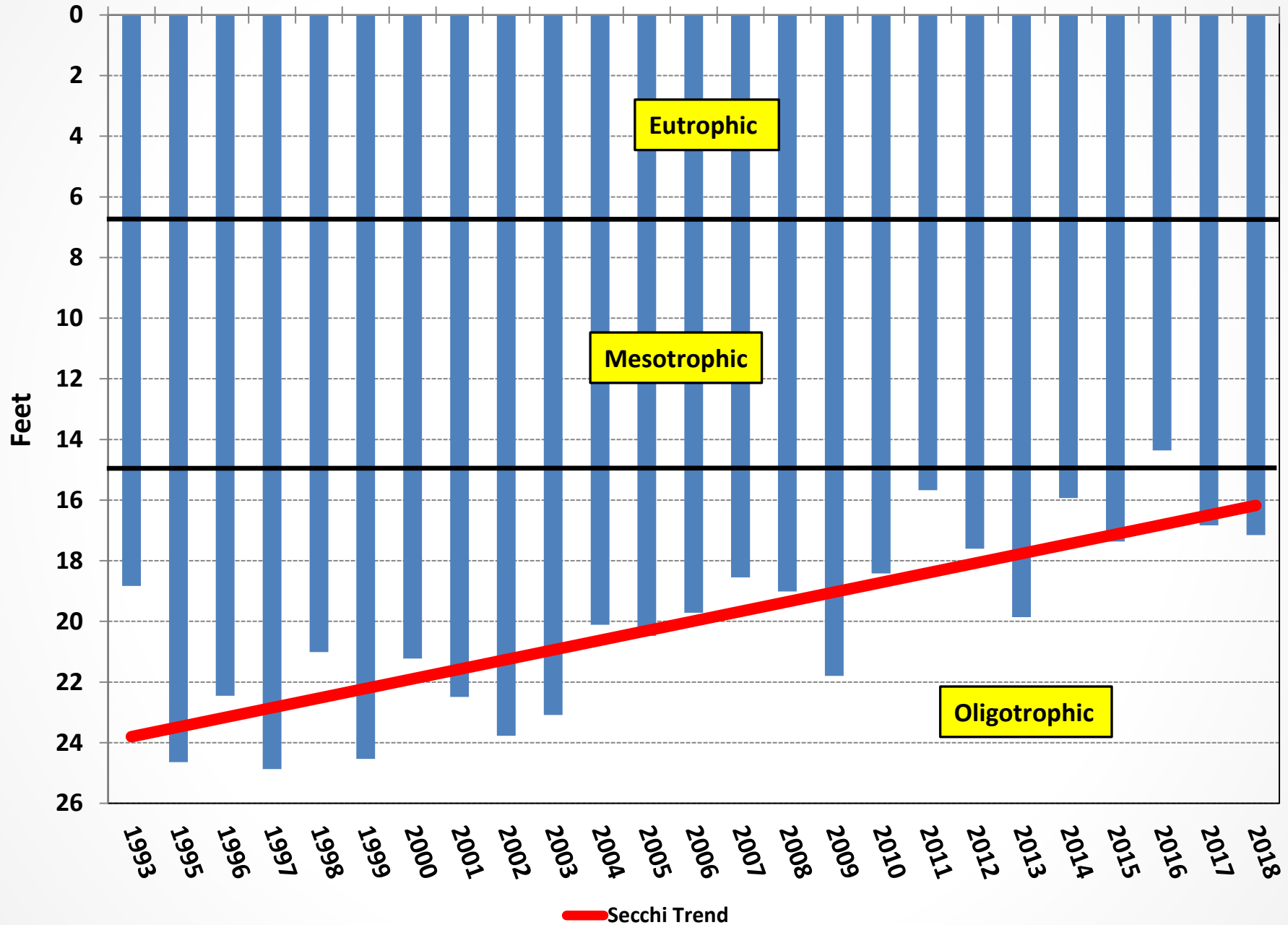
Grindstone Lake Annual Average Summer Chl-a Values



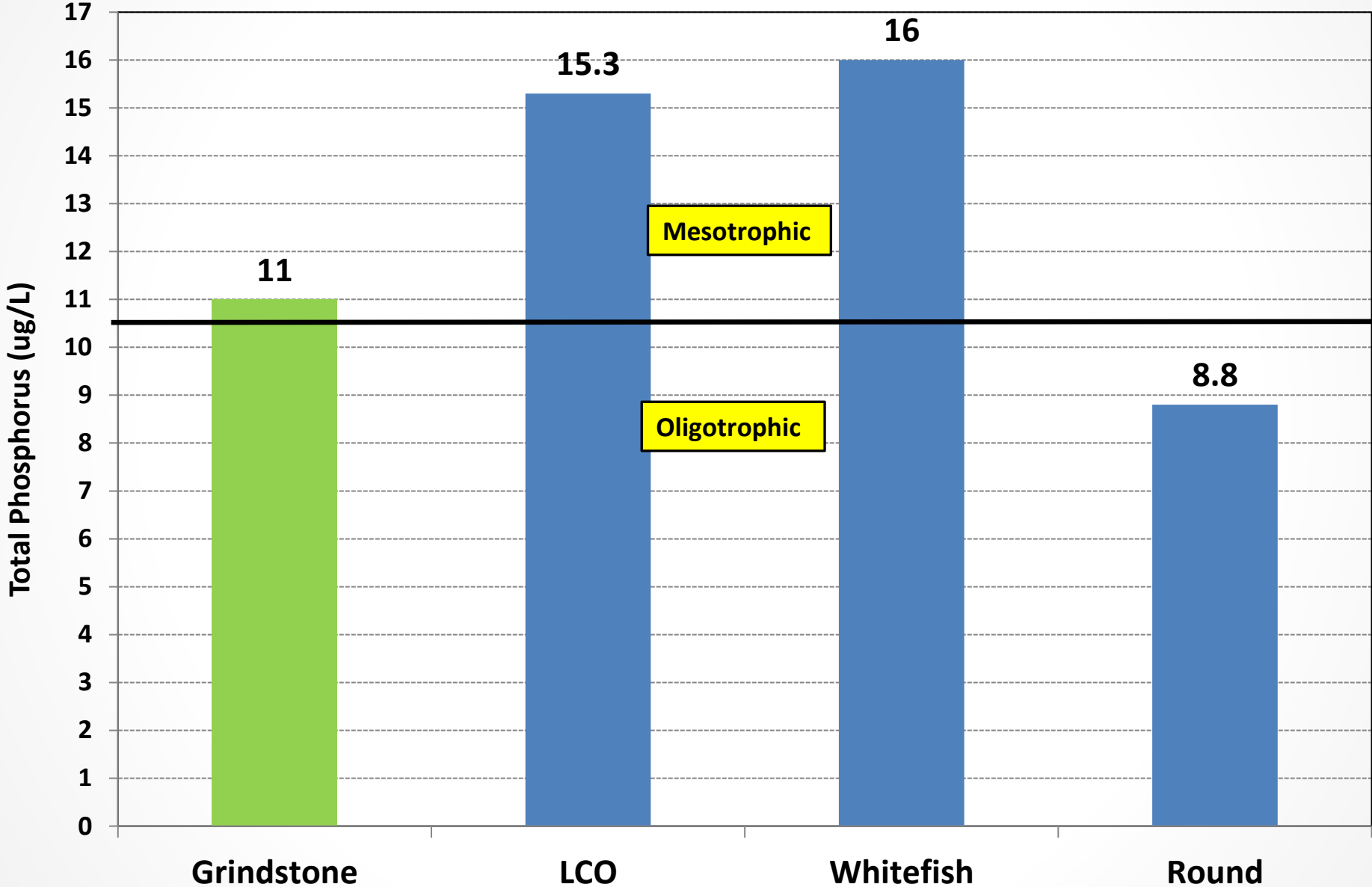
Grindstone Lake Annual Average Summer Secchi Disk Values



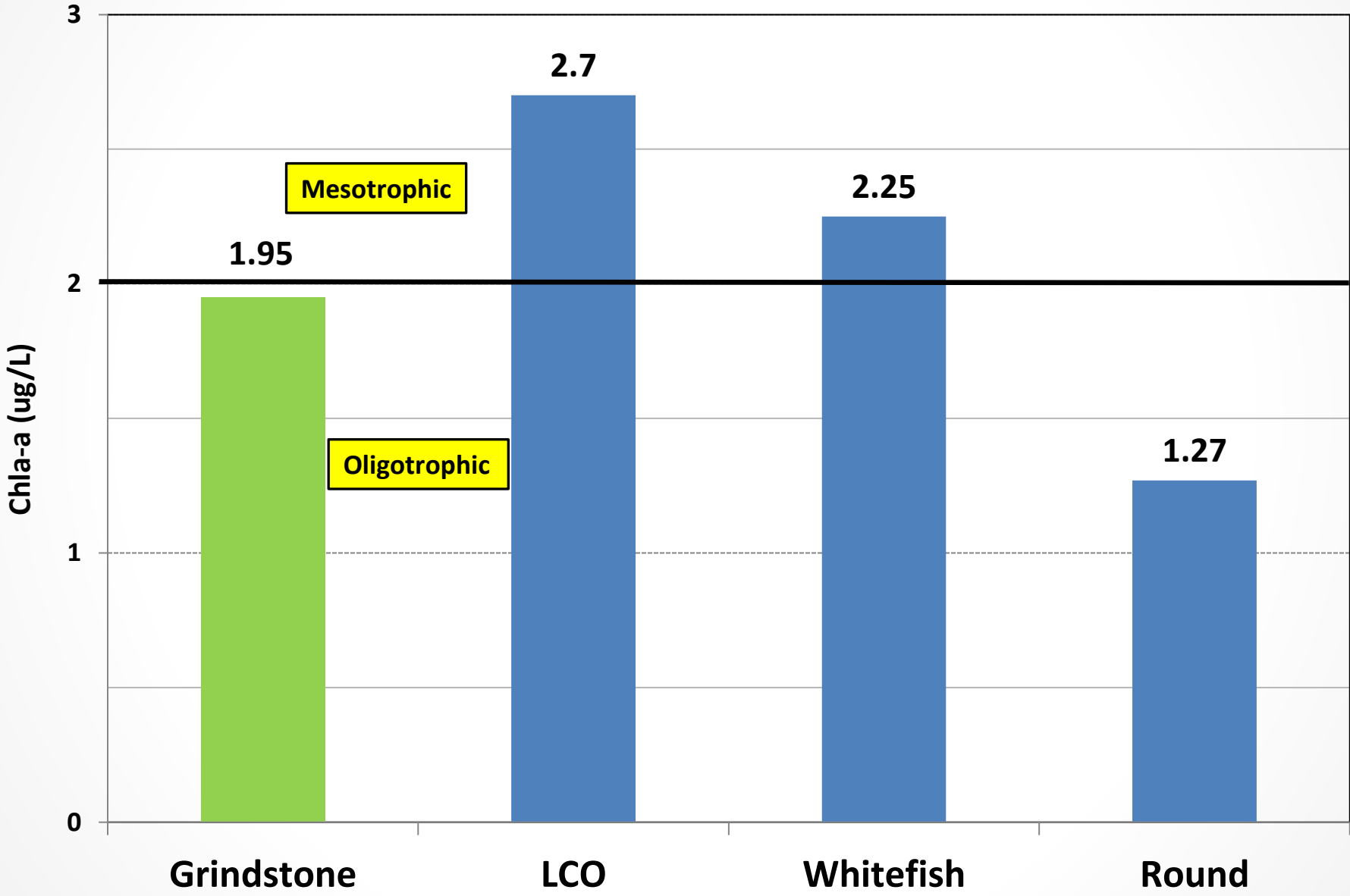
Grindstone Lake Annual Average Summer Secchi Disk Values



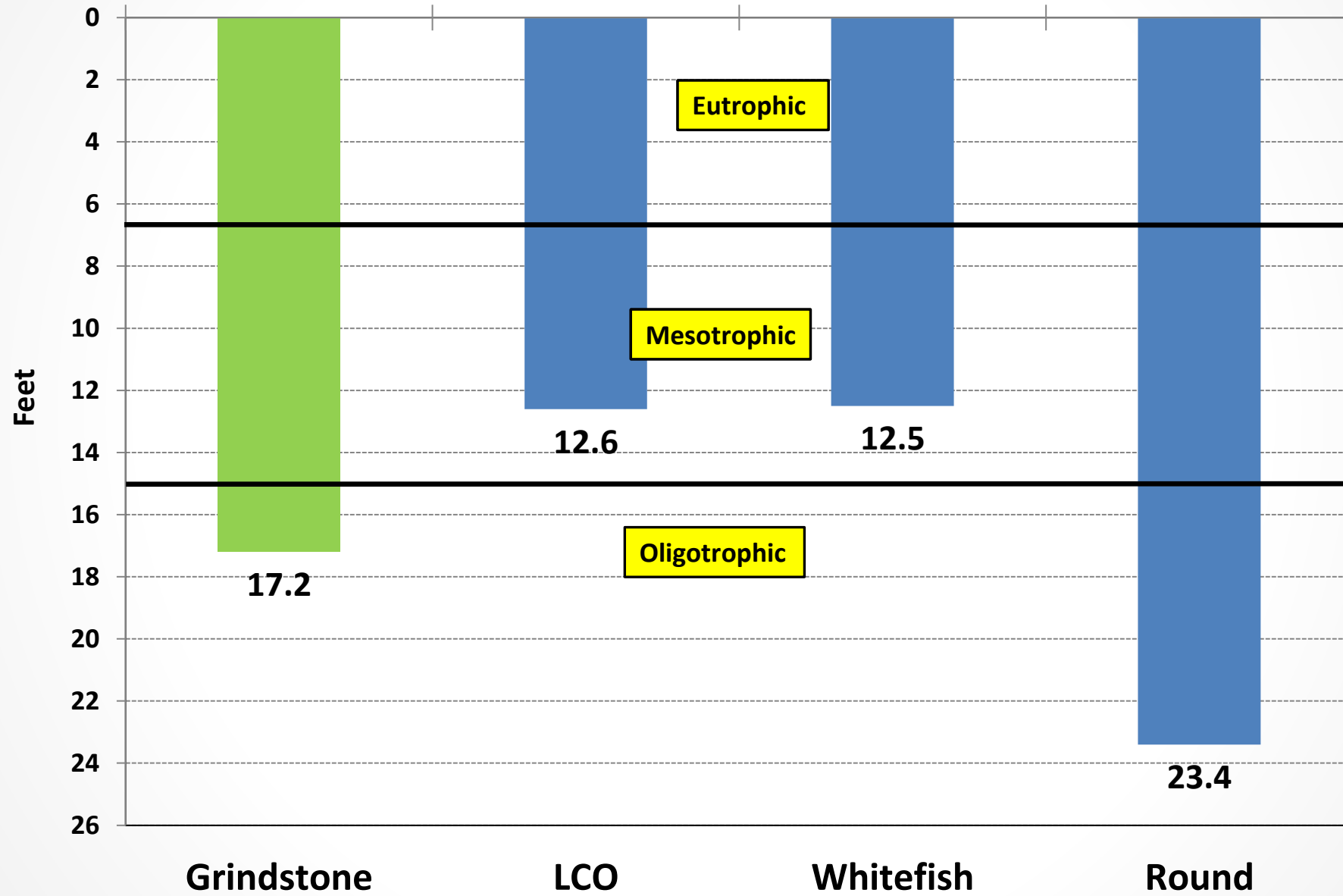
2018 Total Phosphorus Comparison



2018 Chla-a Comparison



2018 Secchi Disk Comparison



Future LCO Conservation Efforts

- **Continue with baseline monitoring and trend analysis**
- **Evaluate available oxy-thermal habit**
- **Establish Site Specific Criteria (SSC) for phosphorus to help protect oxy-thermal habitat if needed**