



# **Water Quality Monitoring Trends**

**1991 - 2024**



**EAGAN**



# Introduction to Water Quality Monitoring

## **What data are you collecting?**

The City of Eagan has been collecting water quality data since 1991. Every summer between June and September, City staff collect samples from between 12 and 16 waterbodies across Eagan. Those samples are sent to a lab to be analyzed for the following parameters:

- Total phosphorous
- Ortho phosphorous
- Chlorophyll-a
- Secchi depth (clarity)
- Temperature
- Dissolved oxygen
- pH
- Conductivity
- Total dissolved solids
- Kjeldahl nitrogen
- Nitrate / nitrite

## **What do you do with this information?**

At the end of the year, we compare these results against the State of Minnesota's Water Quality Standards, and look at the overall trends in each waterbody over time. Collectively, this gives us a snapshot of ecosystem health - and tells us where we need to focus improvement efforts moving forward.

The Water Resources Team will meet in the fall to discuss the monitoring data, along with any other observations collected over the summer season. We then assemble our list of Capital Improvement Projects for the coming cycle. Every spring, the Public Works Department presents a comprehensive, updated 5-year CIP list to City Council for approval.



## **What's in this guide?**

Surface waterbodies are complex systems that respond to a wide range of natural, and unnatural, variables. Climate change, development, and the introduction of invasive plants and animals are just some of the factors that have significant impacts on the quality of our surface waters from one year to the next.

The City has been conducting water quality improvement projects since the early 1990's - these sheets only include the last 5 years of improvements for the sake of space. These fact sheets and the accompanying data tables are designed to provide a more complete picture of each waterbody that we have data for. Values for each year is calculated as the median value of all the samples collected during that sampling season.

## **Total Phosphorous (TP)**

Phosphorous is an important component in lakes, ponds, and wetlands. Plants and algae are the foundation of these aquatic ecosystems - and they can't exist without phosphorous. However, excess phosphorous from stormwater runoff can overload a waterbody - leading to algae blooms which can choke out other aquatic vegetation. This vegetation provides critical habitat and food sources, and supports dissolved oxygen levels that other aquatic organisms need to survive.

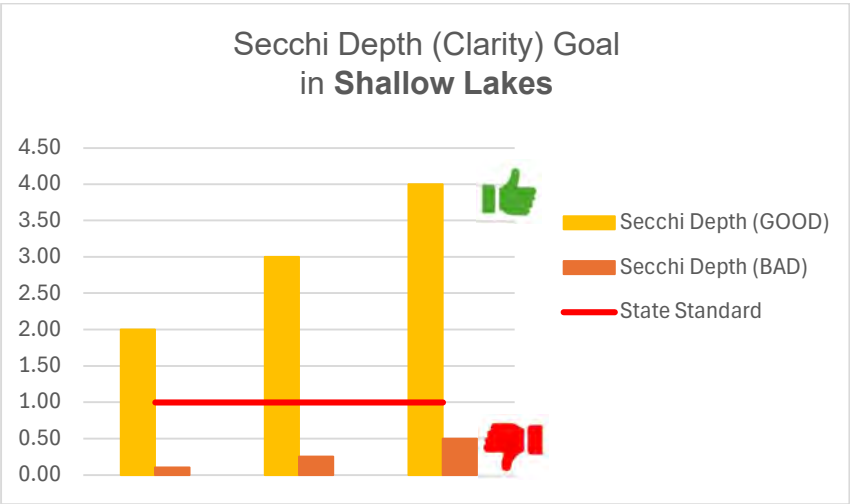
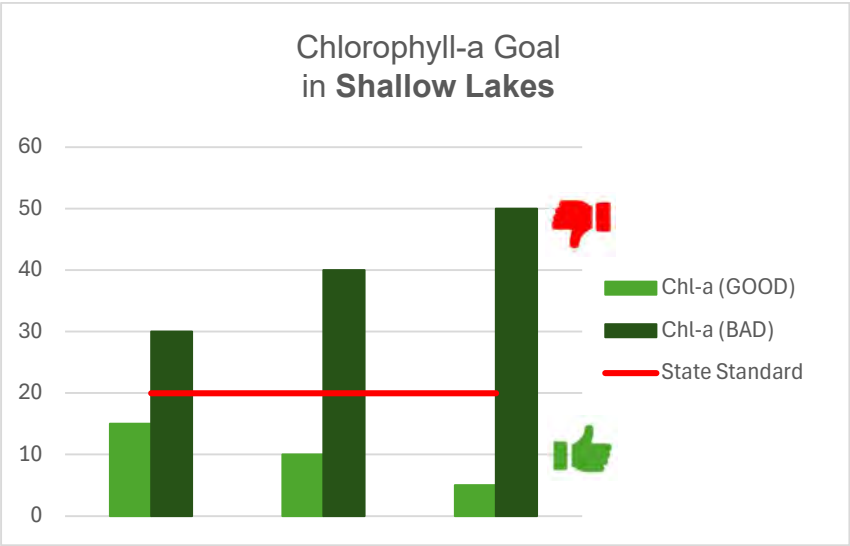
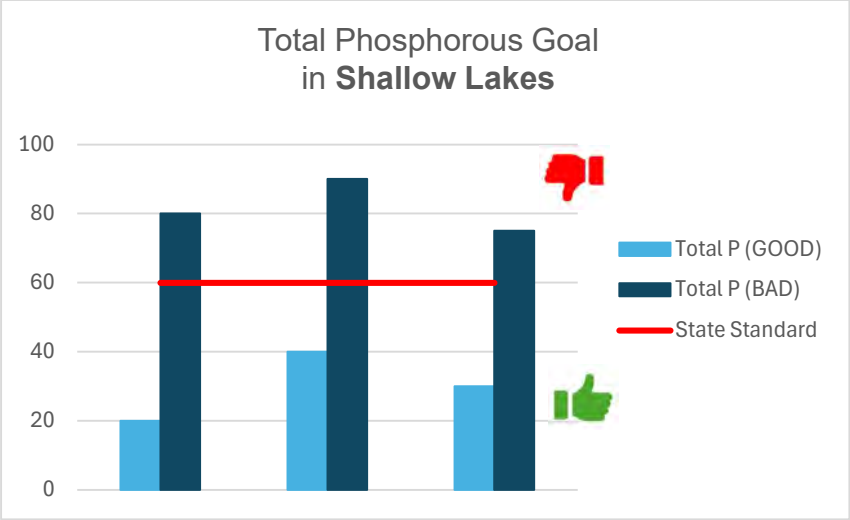
## **Chlorophyll-a (Chl-a)**

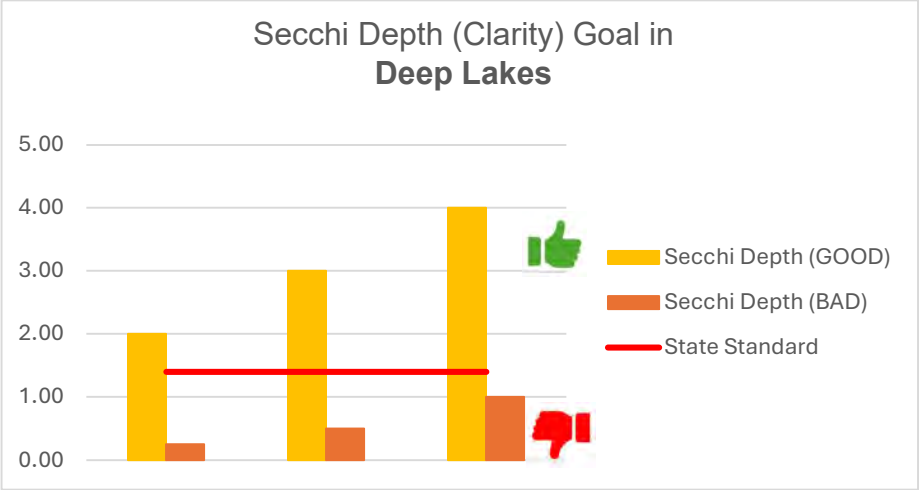
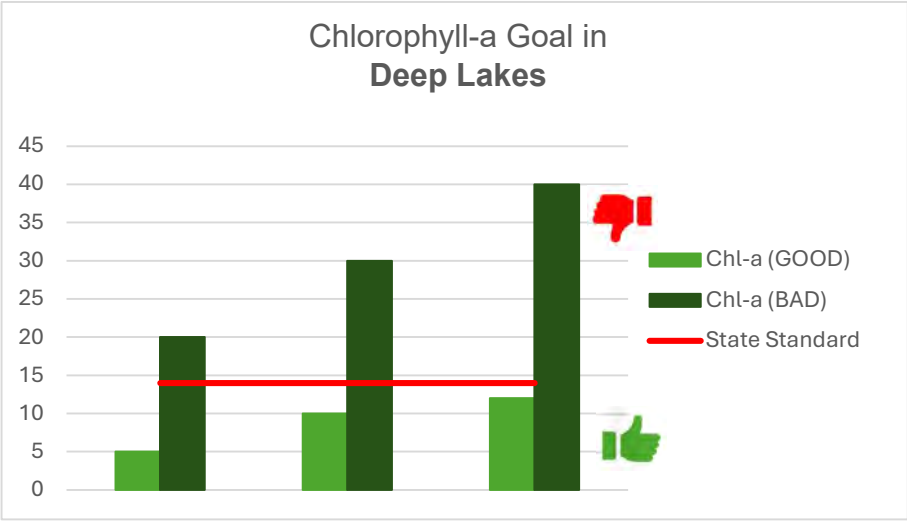
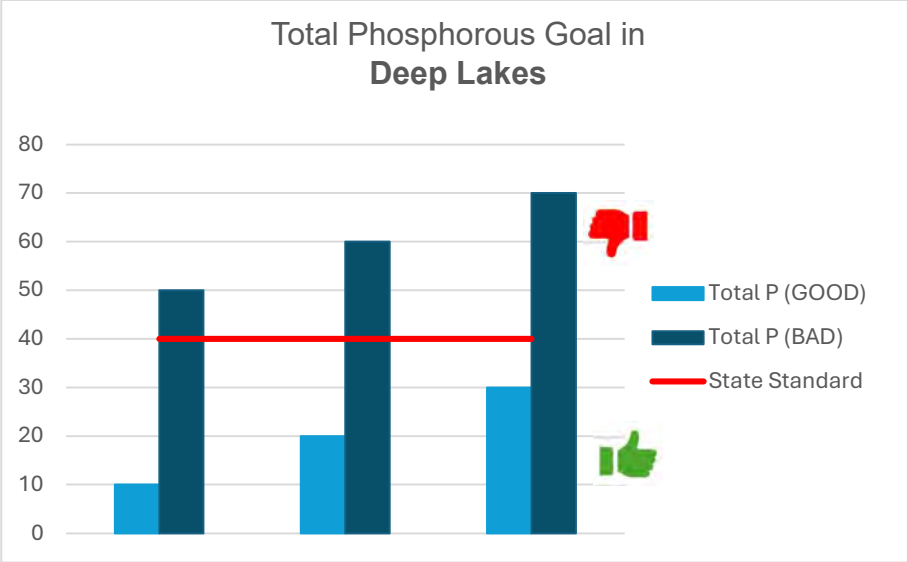
Algae cells need chlorophyll to absorb sunlight and turn it into oxygen - which in turn is used by other organisms in a waterbody in a cycle. Monitoring chlorophyll-a tells us how many active algae cells are in a sample. When levels are too high, the balance is thrown off and algae cells can replicate too quickly, or 'bloom.'

## **Secchi Depth (Clarity)**

Secchi depth tells us how clear the water is at a given time. Better clarity means that light can penetrate further, which allows aquatic plants to grow in their natural cycle. Aquatic plants release dissolved oxygen, and provide critical habitat and food sources for fish and other wildlife.







# Jump to Your Lake!

**Click on the name of the lake below to jump to that section.**

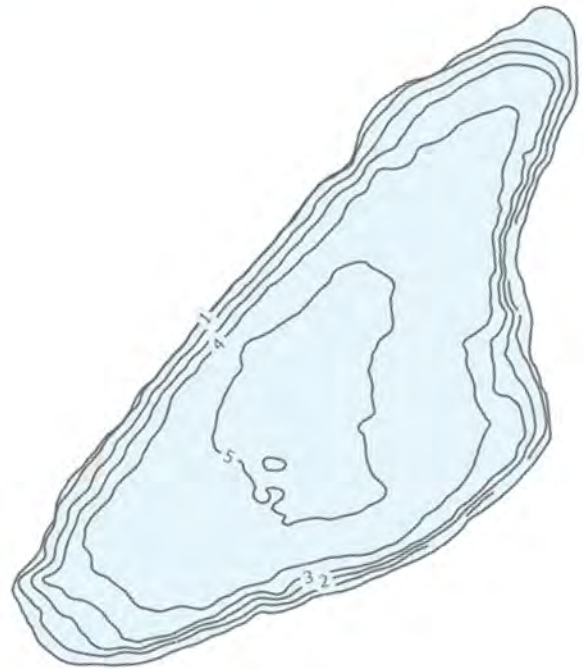
- [Almquist Lake](#)
- [Bald Lake](#)
- [Blackhawk Lake](#)
- [Bur Oaks Pond](#)
- [Carlson Lake](#)
- [Cliff Lake](#)
- [East Thomas Lake](#)
- [Fish Lake](#)
- [Fitz Lake](#)
- [Hay Lake](#)
- [Heine Pond](#)
- [Holz Lake](#)
- [LeMay Lake](#)
- [McCarthy Lake](#)
- [Mooney Pond](#)
- [North Lake](#)
- [O’Leary Lake](#)
- [Quigley Lake](#)
- [Schawnz Lake](#)
- [Shanahan Lake](#)
- [Thomas Lake](#)





# Almquist Lake

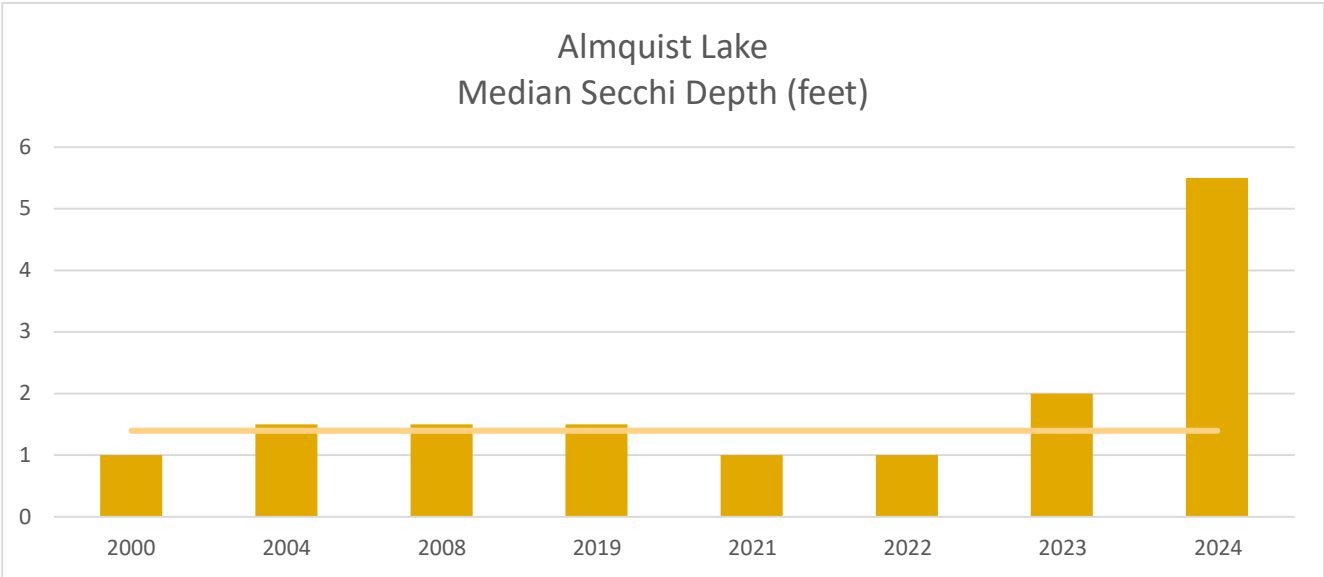
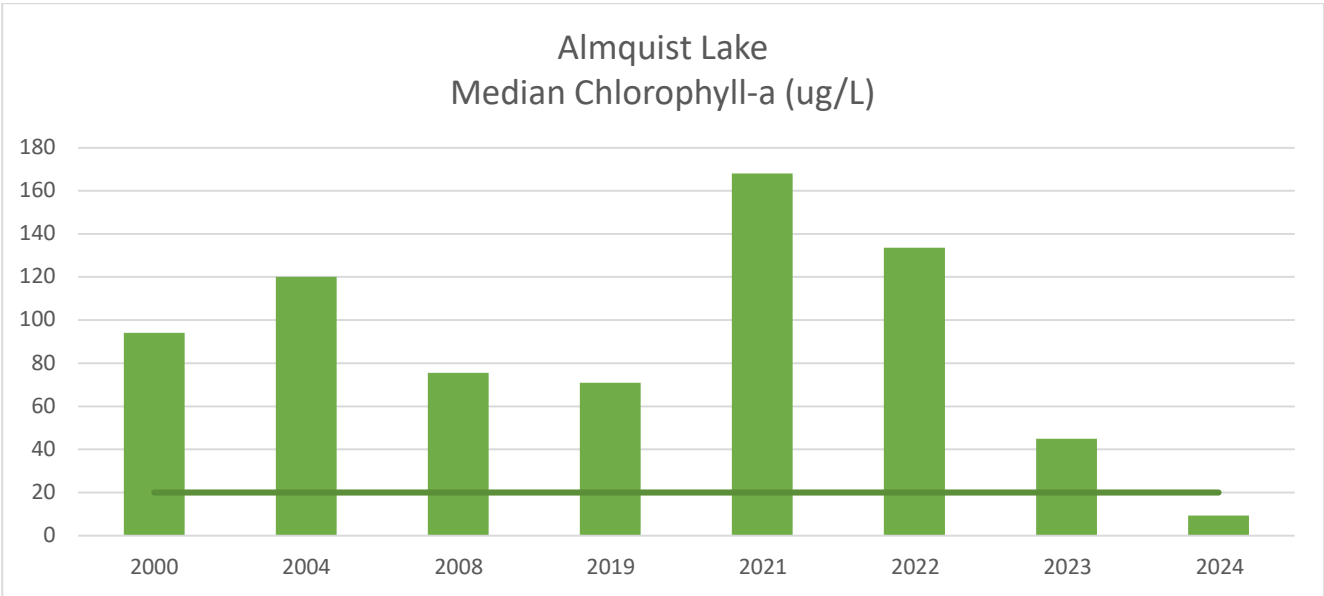
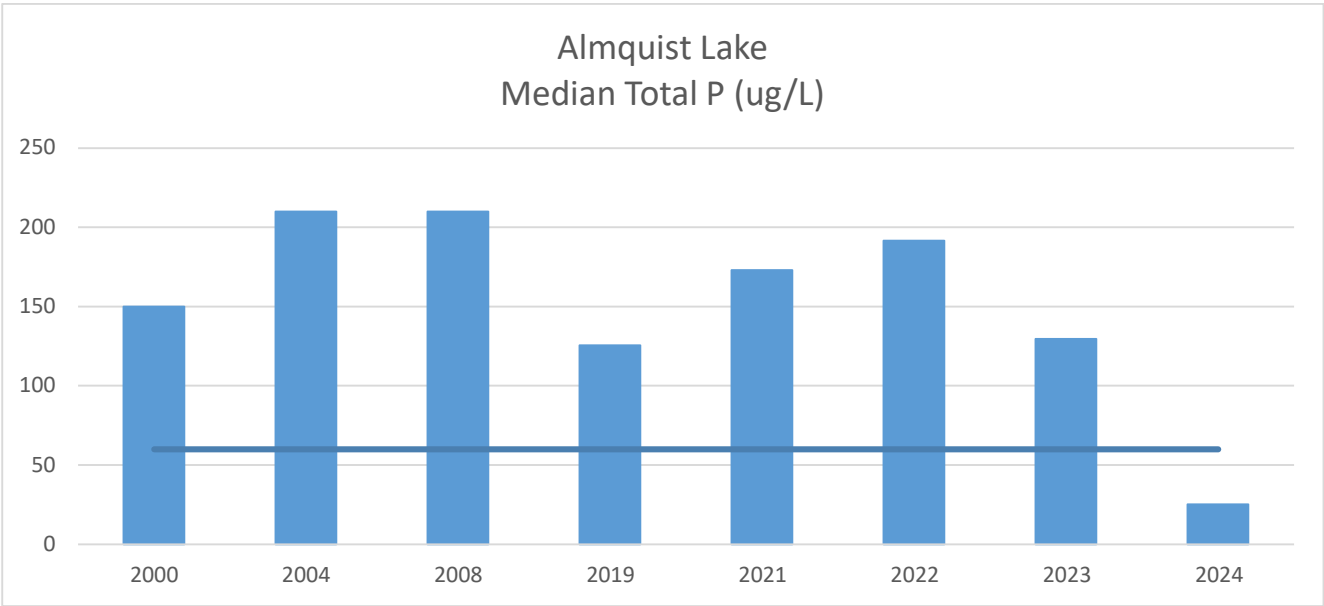
<b>City ID:</b>	BLP-4
<b>Waterbody type:</b>	Wetland
<b>Surface area:</b>	9.36 acres
<b>Maximum depth:</b>	5.50 feet
<b>Public access:</b>	No
<b>Supported uses:</b>	Habitat, Education, Aesthetics



## WATER QUALITY IMPROVEMENTS [2020-PRESENT]

2021	●	Fish population survey completed to assess overall health of the lake's fishery (results were excellent)
2022	●	Rotenone treatment to eliminate goldfish infestation
2023	●	Alum application to reduce in-lake nutrient load; Electroshocking to remove additional goldfish
2024	●	450 bluegill sunfish stocked to compete with few remaining goldfish and add native fish species









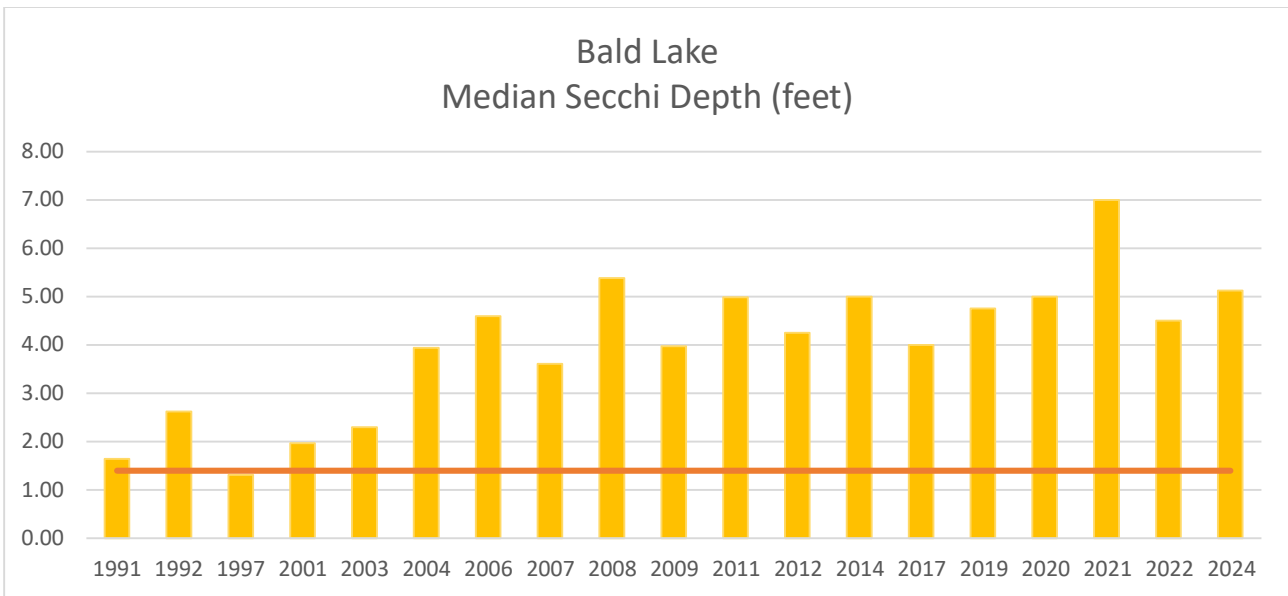
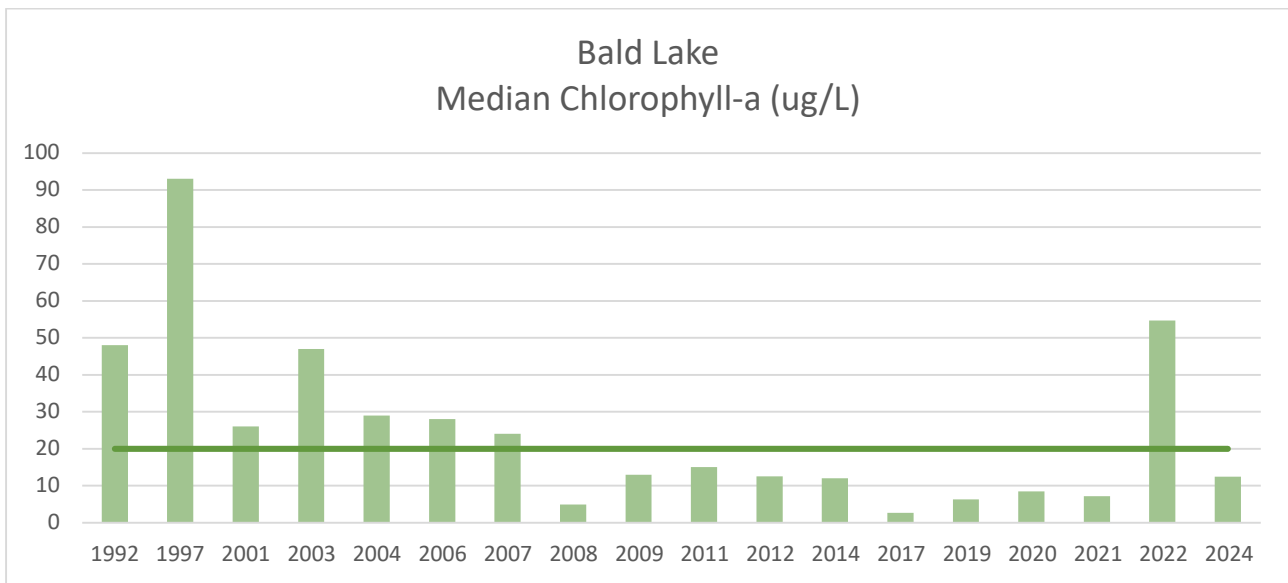
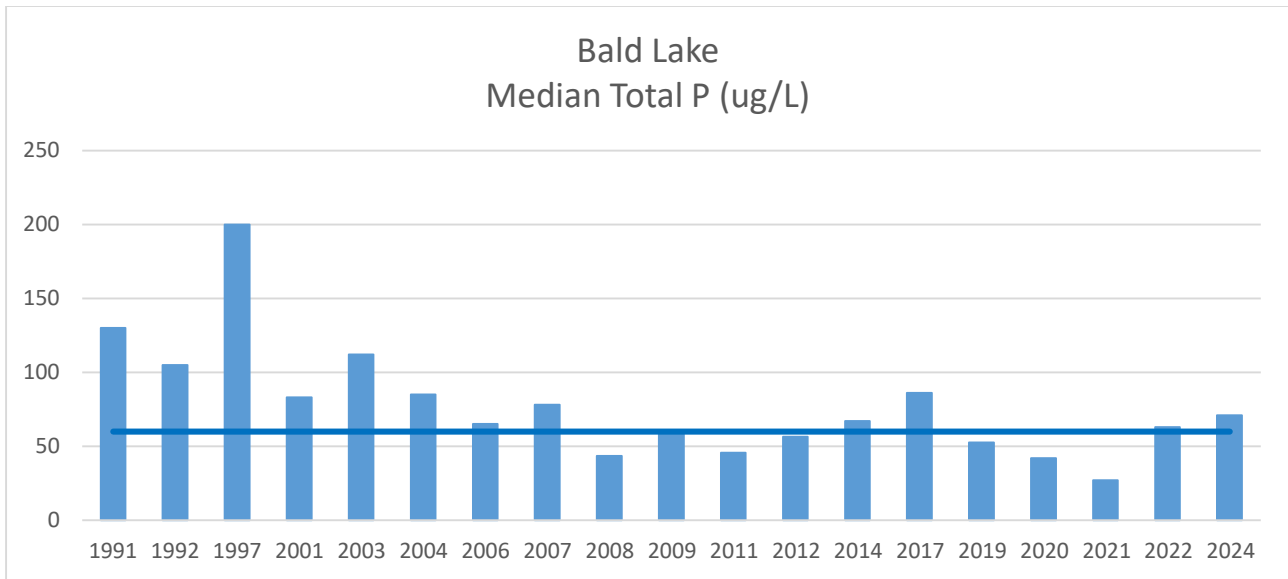
# Bald Lake

<b>City ID:</b>	JP-20
<b>Waterbody type:</b>	Shallow Lake
<b>Surface area:</b>	10.30 acres
<b>Average depth:</b>	4.10 feet
<b>Maximum depth:</b>	8.50 feet
<b>Public access:</b>	Yes
<b>Supported uses:</b>	Fishing, Canoeing/ Kayaking



## WATER QUALITY IMPROVEMENTS [2020-PRESENT]

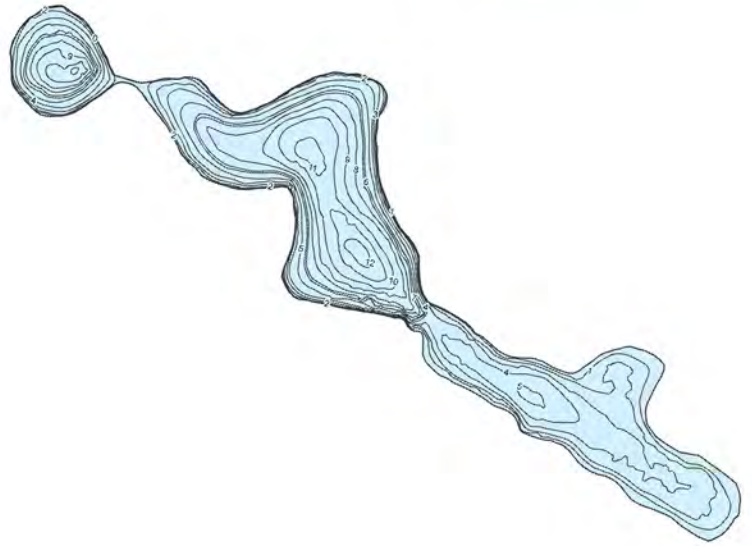
As needed	●	Aerated in winter as needed to prevent fish kills
2020	●	Stocked: 200 pounds of fathead minnows Alum application to reduce in-lake nutrient load





# Blackhawk Lake

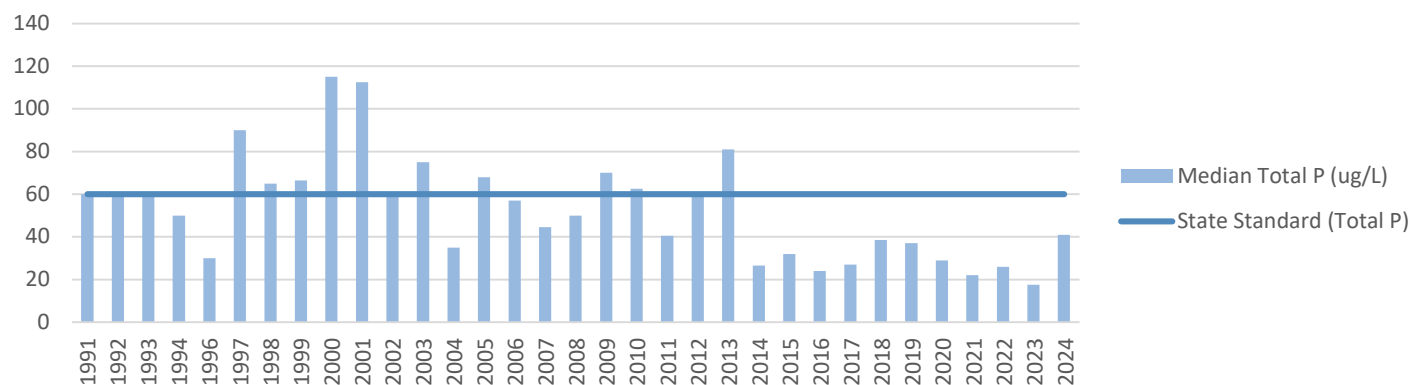
<b>City ID:</b>	BP-1
<b>Waterbody type:</b>	Shallow Lake
<b>Surface area:</b>	46.40 acres
<b>Average depth:</b>	5.00 feet
<b>Maximum depth:</b>	12.20 feet
<b>Public access:</b>	Yes
<b>Supported uses:</b>	Fishing, Canoeing/ Kayaking



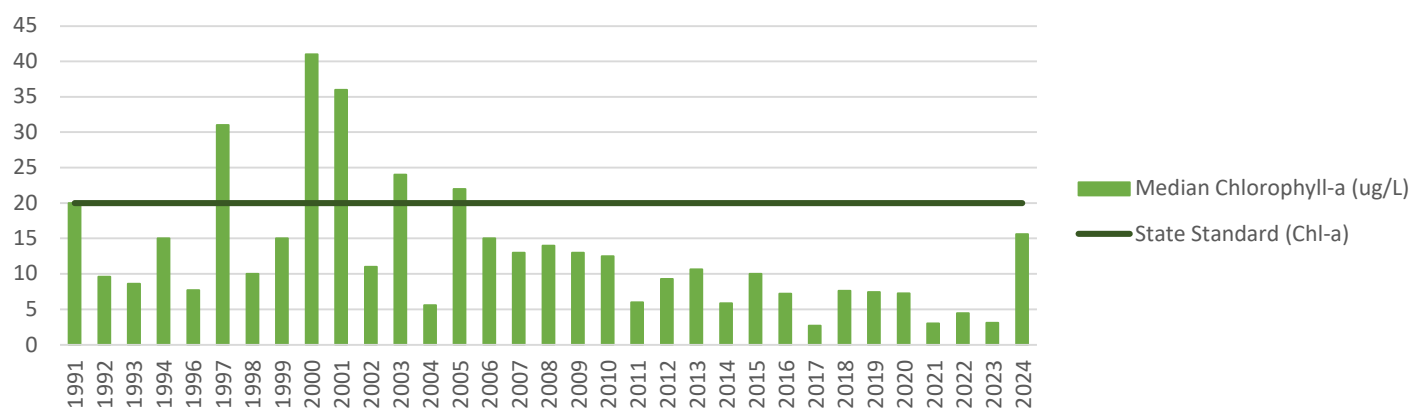
## WATER QUALITY IMPROVEMENTS [2019-PRESENT]

As Needed	●	Aerated in winter to prevent fish kills
As Needed	●	Lake plants harvested in summer months to reduce biomass
2019	●	Alum application to reduce in-lake nutrient load
2021	●	Stocked: 450 walleye (6-8 inches)

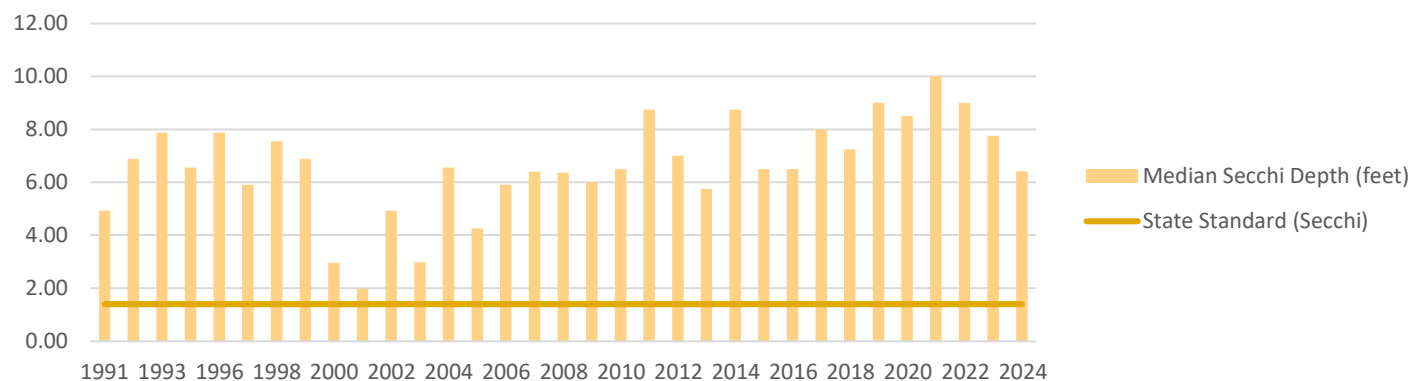
### Blackhawk Lake Median Total P (ug/L)



### Blackhawk Lake Median Chlorophyll-a (ug/L)



### Blackhawk Lake Median Secchi Depth (feet)







## Impairment Summary


### Blackhawk Lake

**Year Listed:** 2006

**Impairment:** Mercury in Fish Tissue

**TMDL Approved:** Yes; Southwest Region Mercury TMDL

**Impaired Use(s):** Aquatic Consumption



A waterbody is listed as impaired for mercury when more than 10% of a fish species fillets have a mercury concentration of at least 0.20 parts per million (ppm). Mercury accumulates in fish tissue, specifically as 'methylmercury,' which is the most hazardous form of mercury for humans. Once a waterbody is contaminated with mercury, it is very difficult to remove it.

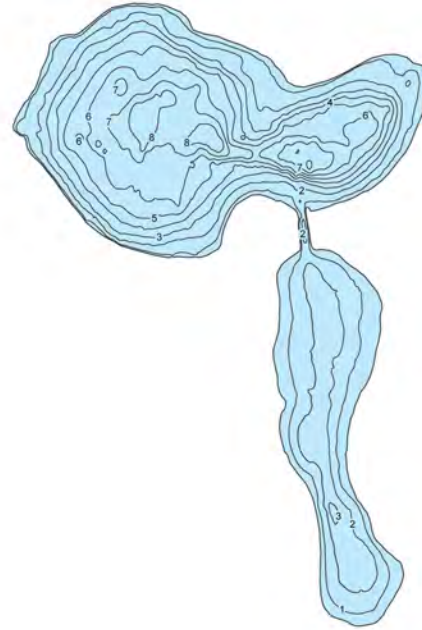
Mercury is a naturally occurring element that is highly toxic to both humans and animals. While most people associate mercury with the liquid, silvery substance from old thermometers, it can also evaporate and become airborne - and in this form can come from a variety of sources.

In Eagan's case, the primary source is atmospheric deposition from coal-fired power plants in North Dakota. Because the source of these contaminants is not local, the state of Minnesota oversees a statewide 'total maximum daily load' or TMDL to manage the sources of mercury accumulating in our surface waters.



# Bur Oaks Pond

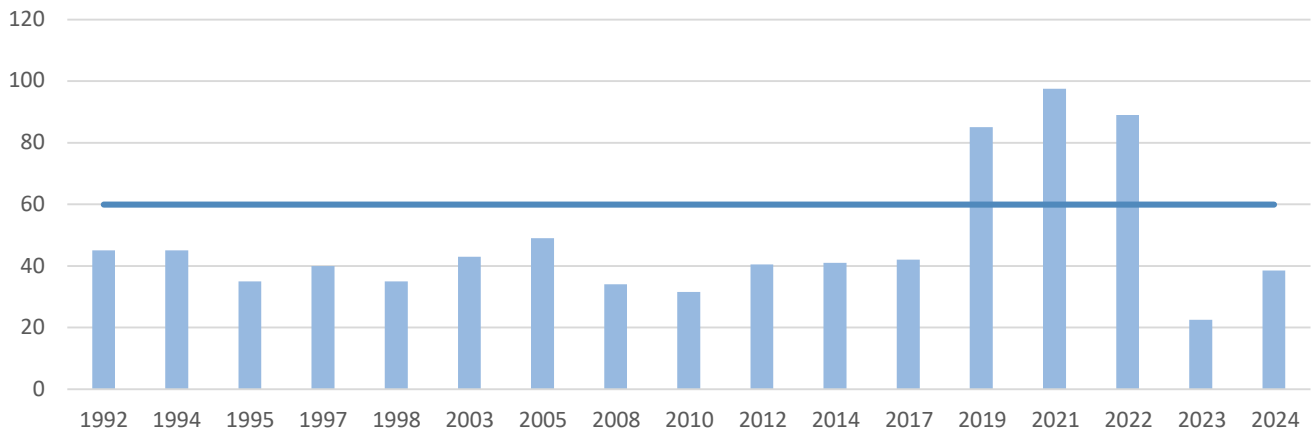
<b>City ID:</b>	GP-1
<b>Waterbody type:</b>	Shallow Lake
<b>Surface area:</b>	15.50 acres
<b>Average depth:</b>	3.51 feet
<b>Maximum depth:</b>	8.92 feet
<b>Public access:</b>	Yes
<b>Supported uses:</b>	Fishing, Canoeing/ Kayaking



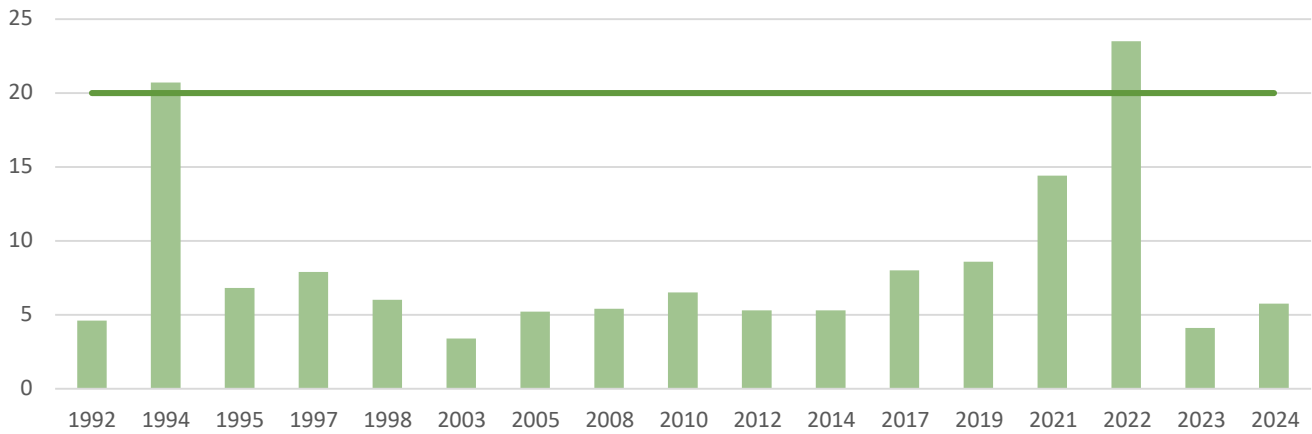
## WATER QUALITY IMPROVEMENTS [2020-PRESENT]

As needed	●	Aerated in winter as needed to prevent fish kills
2020	●	Fish population survey completed to assess overall health of the lake's fishery. Stocked: 850 bluegills (2-4 inches) and 300 pounds of fathead minnows
2022	●	Alum application to reduce in-lake nutrient load
2023	●	Stocked: 1,300 green sunfish (yearlings)

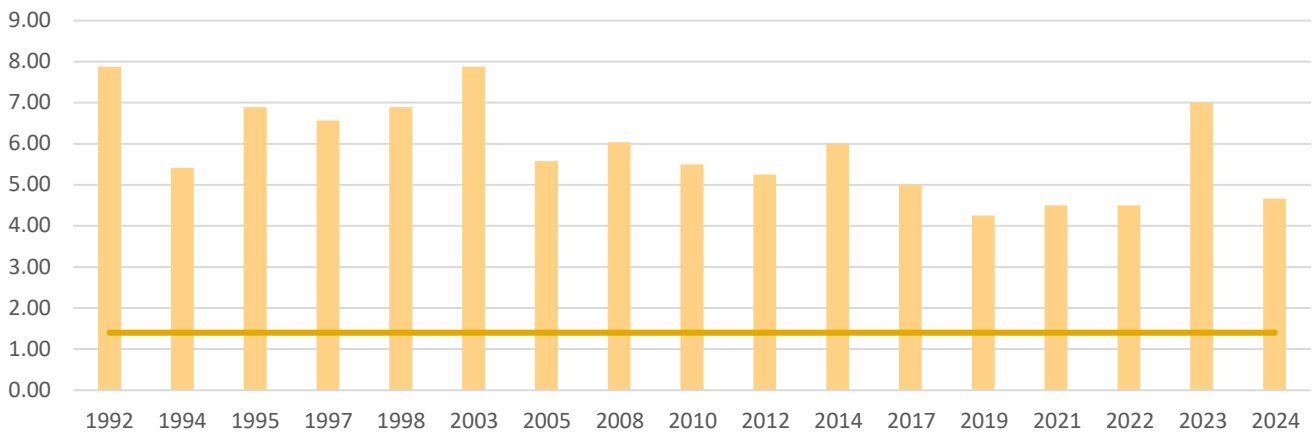
Bur Oaks Pond  
Median Total P (ug/L)



Bur Oaks Pond  
Median Chlorophyll-a (ug/L)



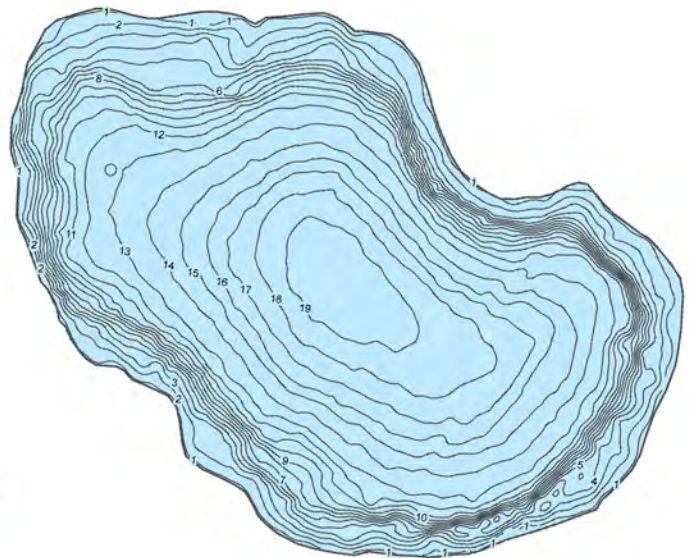
Bur Oaks Pond  
Median Secchi Depth (feet)





# Carlson Lake

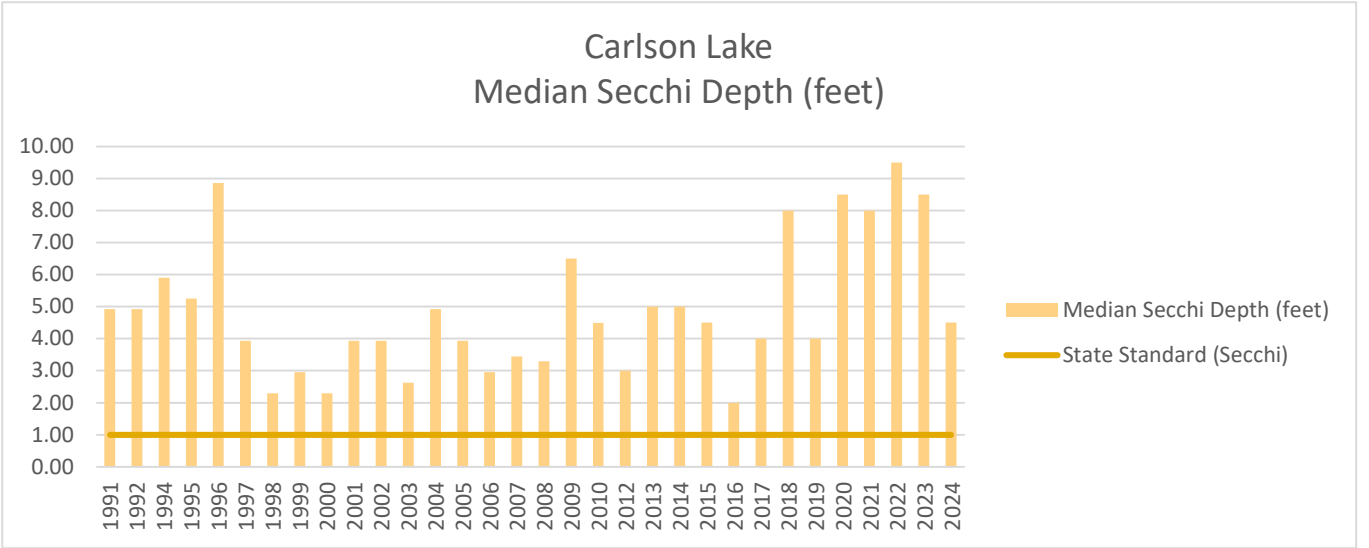
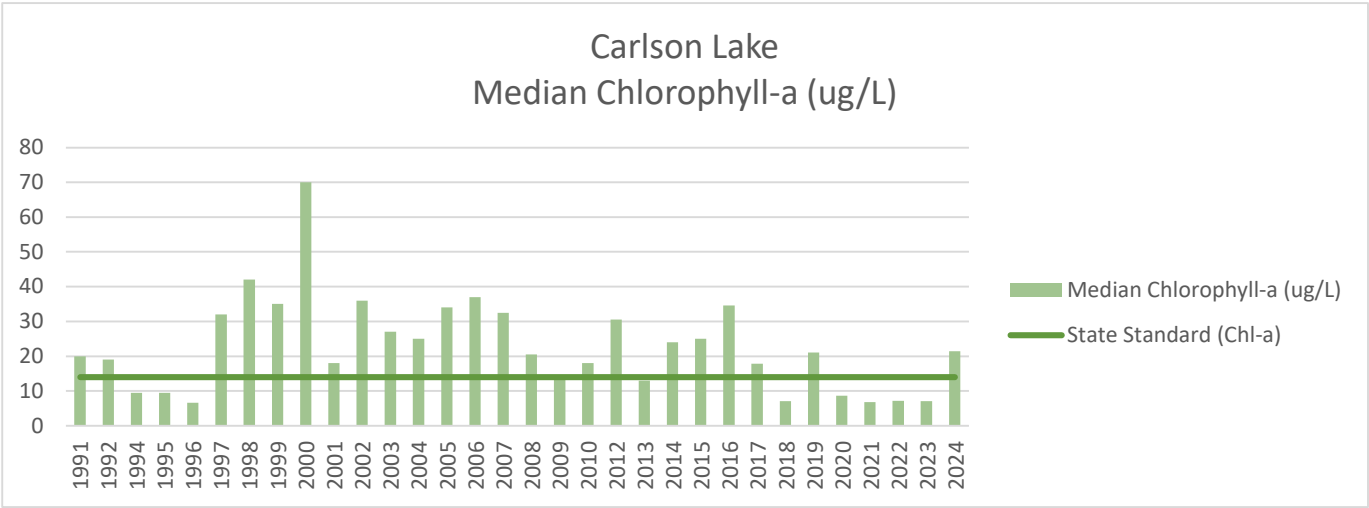
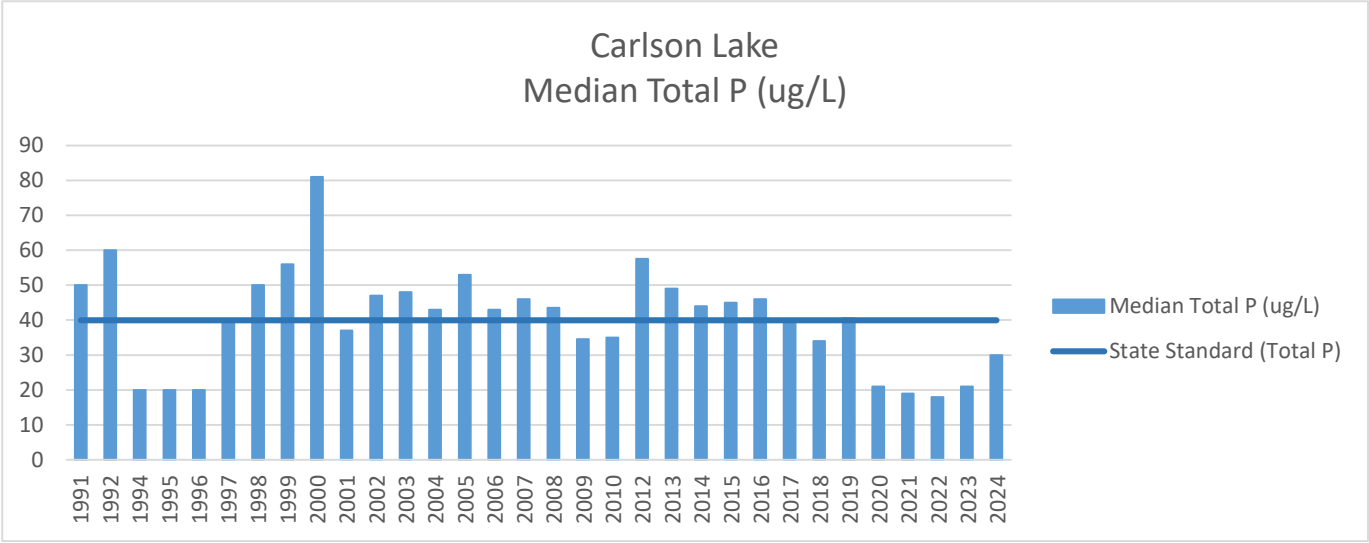
<b>City ID:</b>	LP-42
<b>Waterbody type:</b>	Deep Lake
<b>Surface area:</b>	13.10 acres
<b>Average depth:</b>	10.60 feet
<b>Maximum depth:</b>	20.00 feet
<b>Public access:</b>	Yes
<b>Supported uses:</b>	Fishing, Canoeing/ Kayaking, Swimming



## WATER QUALITY IMPROVEMENTS [2019-PRESENT]

As needed	●	Aerated in winter as needed to prevent fish kills
2019	●	Alum application to reduce in-lake nutrient load
2022	●	Subsurface stormwater filters installed upstream to remove nutrients from stormwater entering the lake







# Impairment Summary

## Carlson Lake


**Year Listed:** 2014

**Year Delisted:** \*Pending\* (2026)

**Impairment:** Nutrients (Stormwater)

**TMDL Approved:** Yes; 2015

**Impaired Use(s):** Aquatic Recreation



Excessive nutrient loading is one of the most common sources of impairment in surface waterbodies, especially those in urban areas like Eagan. In our landscape, nutrients mainly come from developed areas - referred to as 'impervious surfaces' - where water can't soak into the ground. Rather, it runs off the surface into nearby waterways, carrying whatever pollutants have accumulated with it.

Nutrient pollution can lead to excessive algae growth, low dissolved oxygen levels, and ultimately toxicity to aquatic life.

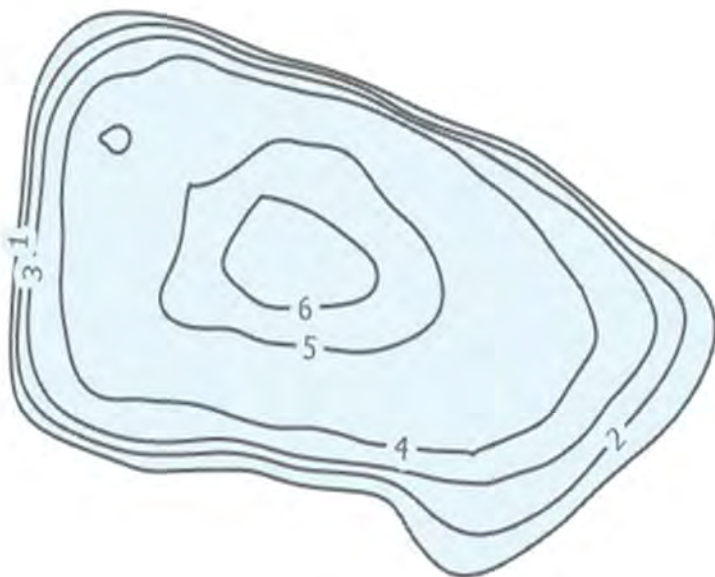
The City of Eagan has used several strategies to reduce nutrient levels in our lakes. Alum applications, watershed management practices, and regulating developments to require that they treat stormwater before it leaves their properties are just some of the ways we have restored these waters back to meeting standards.

**As of 2026, the City will have no nutrient impaired waters listed on the State of Minnesota's 3030(d) List of Impaired Waters. This is a direct result of Eagan's restoration efforts - supported by our community each year!**



# Cliff Lake

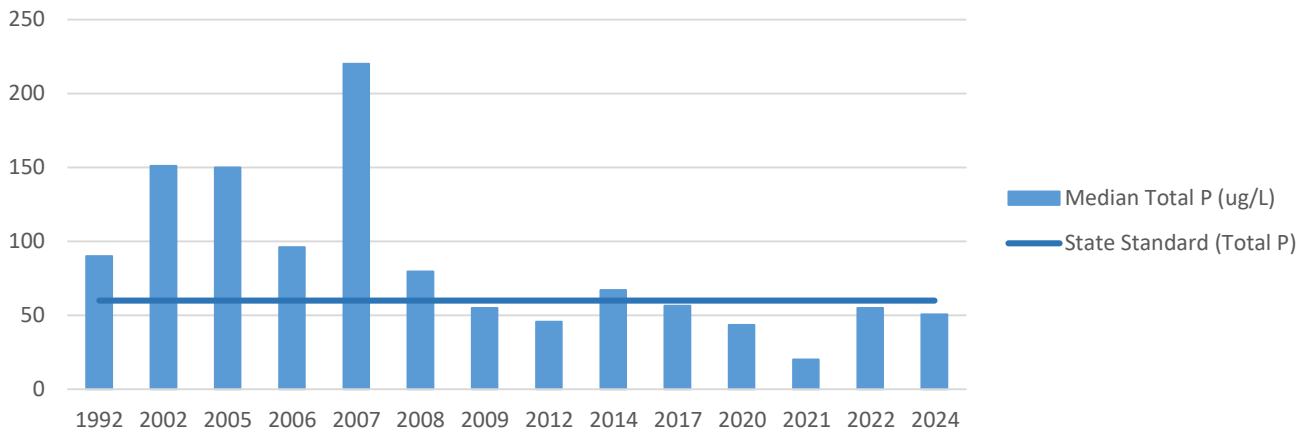
<b>City ID:</b>	AP-11
<b>Waterbody type:</b>	Shallow Lake
<b>Surface area:</b>	11.76 acres
<b>Average depth:</b>	2.77 feet
<b>Maximum depth:</b>	4.76 feet
<b>Public access:</b>	Yes
<b>Supported uses:</b>	Fishing, Canoeing / Kayaking



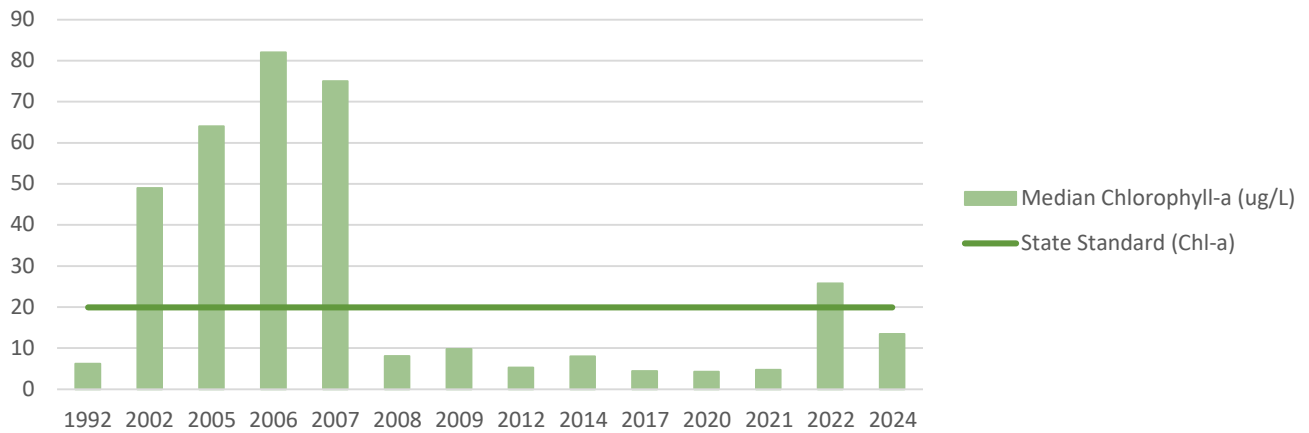
## WATER QUALITY IMPROVEMENTS [2020-PRESENT]

As needed	●	Aerated in winter as needed to prevent fish kills
2020	●	Alum application to reduce in-lake nutrient load
2024	●	Fish population survey completed to assess overall health of the lake's fishery

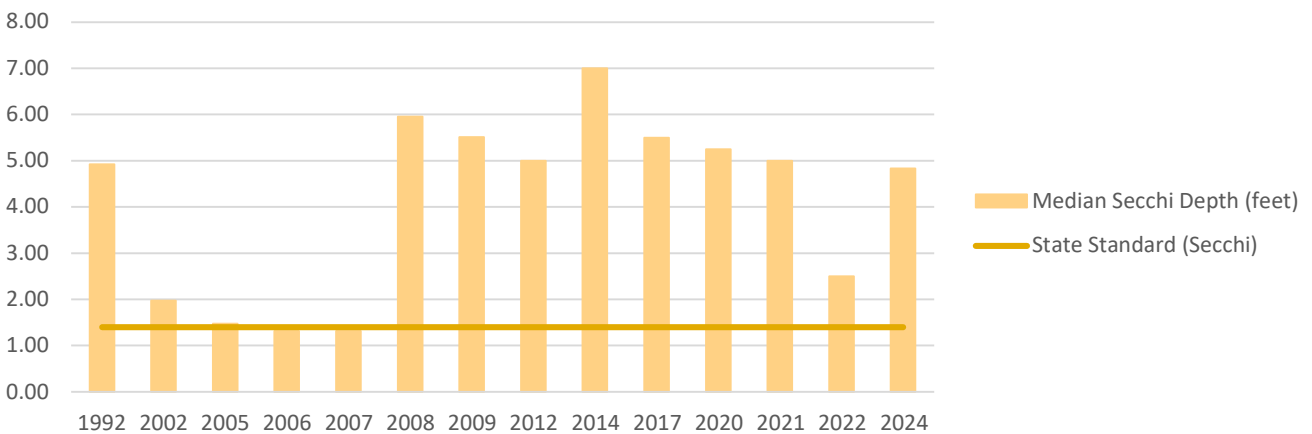
Cliff Lake  
Median Total P (ug/L)



Cliff Lake  
Median Chlorophyll-a (ug/L)



Cliff Lake  
Median Secchi Depth (feet)

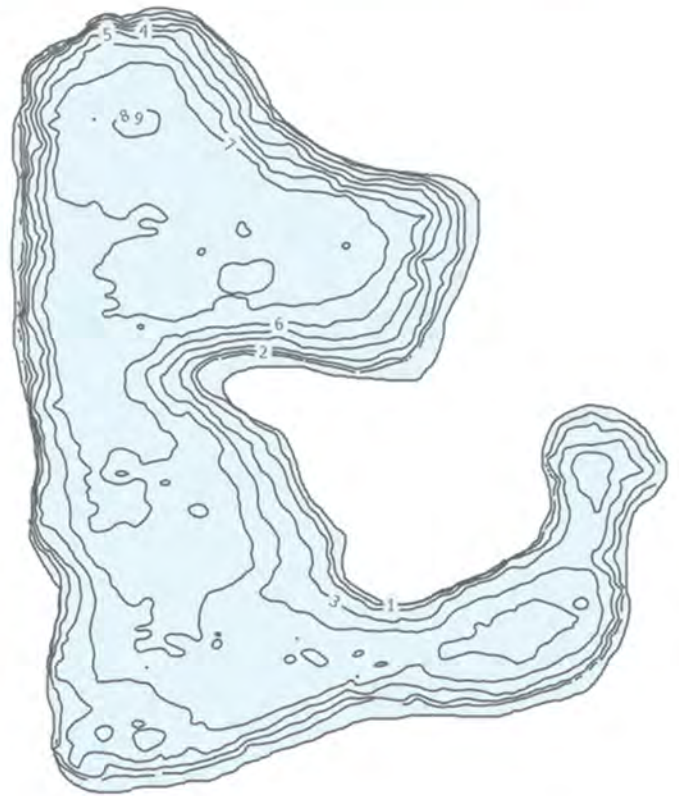




# East Thomas Lake



<b>City ID:</b>	BP-8
<b>Waterbody type:</b>	Shallow Lake
<b>Surface area:</b>	9.20 acres
<b>Average depth:</b>	4.80 feet
<b>Maximum depth:</b>	9.50 feet
<b>Public access:</b>	No
<b>Supported uses:</b>	Fishing, Canoeing/ Kayaking



## WATER QUALITY IMPROVEMENTS [2020-PRESENT]

As Needed



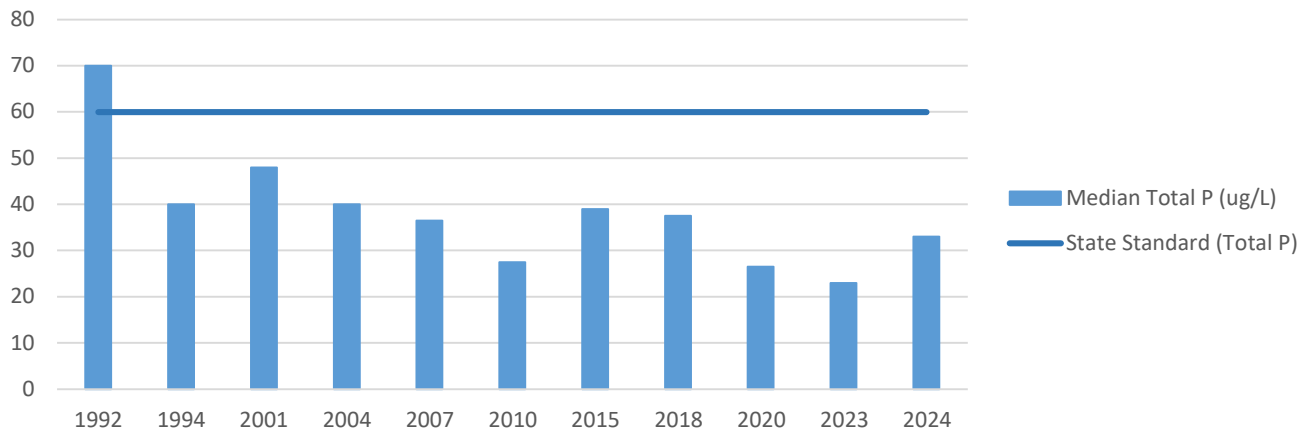
Aerated in winter as needed to prevent fish kills

2021

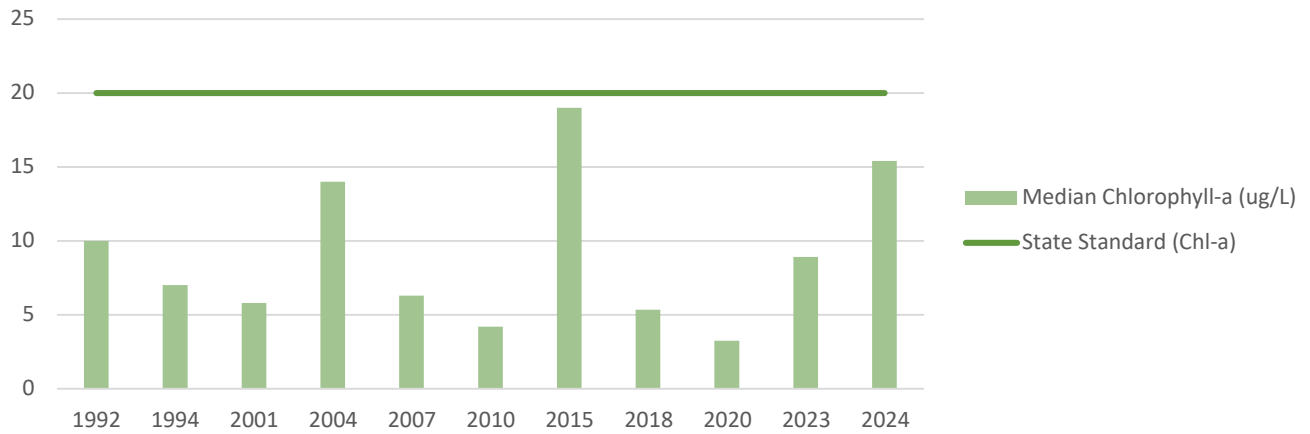


Fish population survey completed to assess overall health of the lake's fishery (results were excellent)

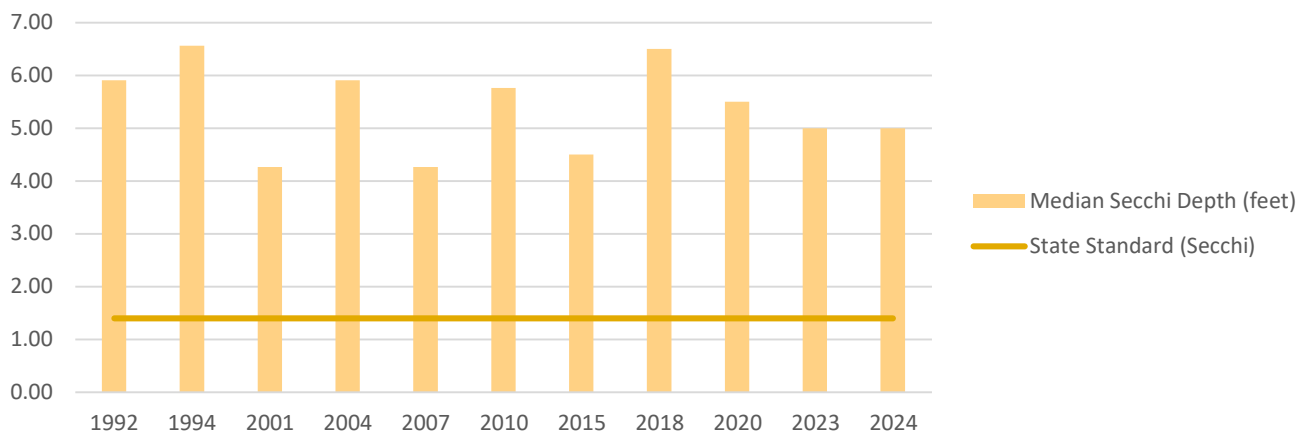
East Thomas Lake  
Median Total P (ug/L)



East Thomas Lake  
Median Chlorophyll-a (ug/L)



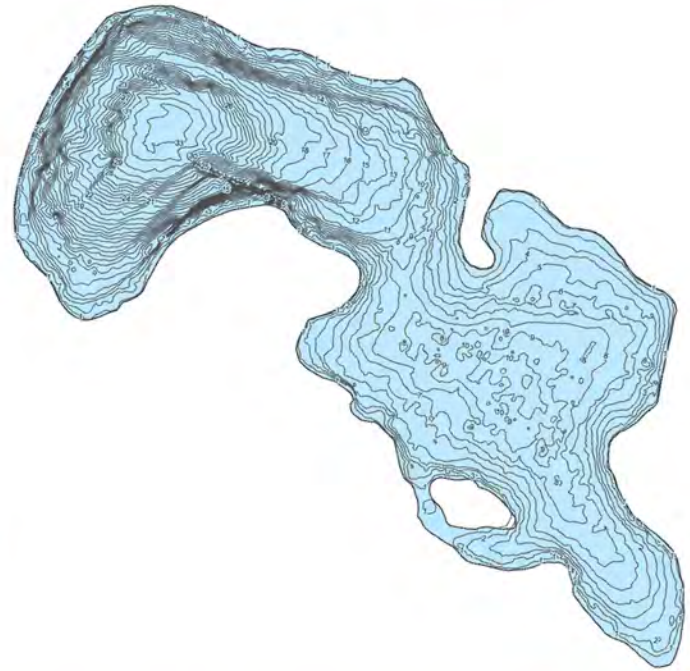
East Thomas Lake  
Median Secchi Depth (feet)





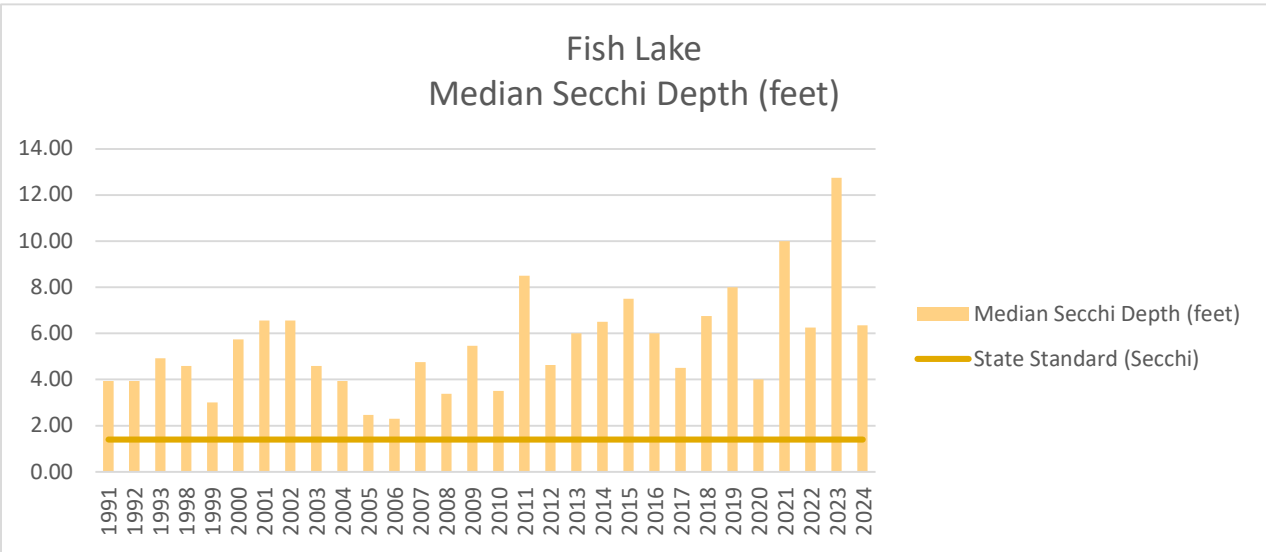
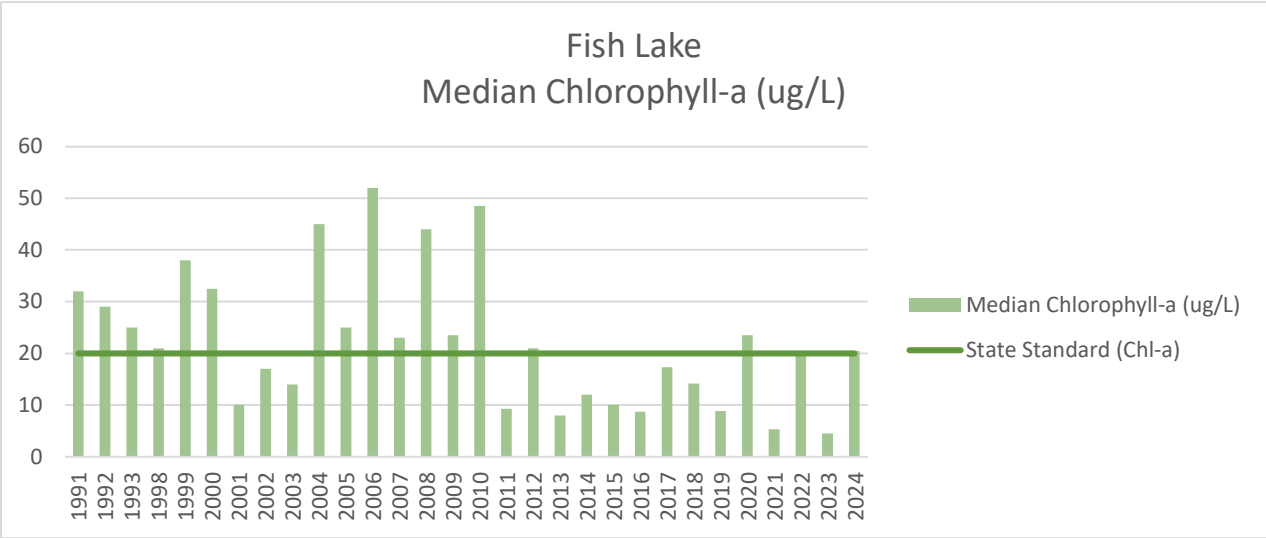
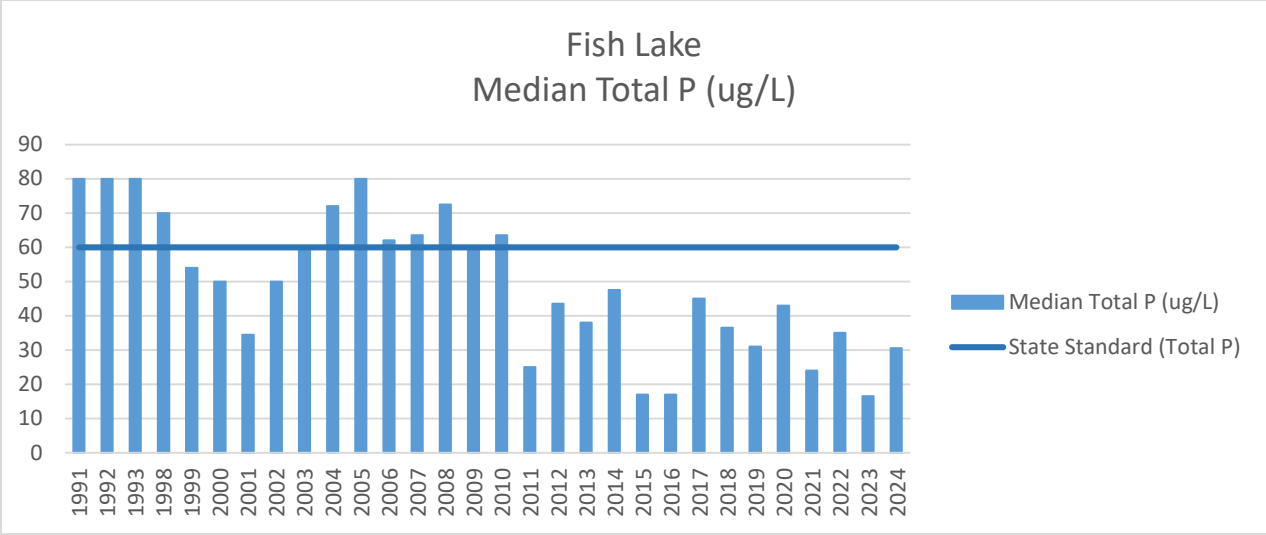
# Fish Lake

<b>City ID:</b>	JP-4
<b>Waterbody type:</b>	Shallow Lake
<b>Surface area:</b>	30.30 acres
<b>Average depth:</b>	9.50 feet
<b>Maximum depth:</b>	33.80 feet
<b>Public access:</b>	Yes
<b>Supported uses:</b>	Fishing, Canoeing/ Kayaking, Swimming



## WATER QUALITY IMPROVEMENTS [2020-PRESENT]

As needed	<ul style="list-style-type: none"><li>Aerated in winter as needed to prevent fish kills</li><li>Lake plants harvested in summer months to reduce biomass</li><li>Alum station in place to provide ongoing dosing throughout the summer months when necessary</li></ul>
2021	Stocked: 450 walleye (6-8 inches)
2022	Alum application to reduce in-lake nutrient load







# Impairment Summary

## Fish Lake


**Year Listed:** 2006

**Impairment:** Mercury in Fish Tissue

**TMDL Approved:** Yes; Southwest Region Mercury TMDL

**Impaired Use(s):** Aquatic Consumption

**Additional Impairments:** Previously impaired for nutrients, delisted in 2014 due to restoration efforts.



A waterbody is listed as impaired for mercury when more than 10% of a fish species fillets have a mercury concentration of at least 0.20 parts per million (ppm). Mercury accumulates in fish tissue, specifically as 'methylmercury,' which is the most hazardous form of mercury for humans. Once a waterbody is contaminated with mercury, it is very difficult to remove it.

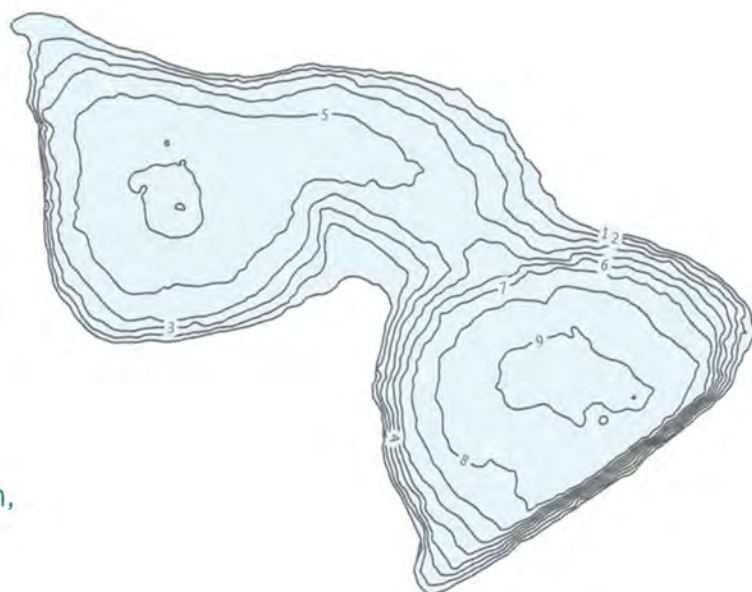
Mercury is a naturally occurring element that is highly toxic to both humans and animals. While most people associate mercury with the liquid, silvery substance from old thermometers, it can also evaporate and become airborne - and in this form can come from a variety of sources.

In Eagan's case, the primary source is atmospheric deposition from coal-fired power plants in North Dakota. Because the source of these contaminants is not local, the state of Minnesota oversees a statewide 'total maximum daily load' or TMDL to manage the sources of mercury accumulating in our surface waters.



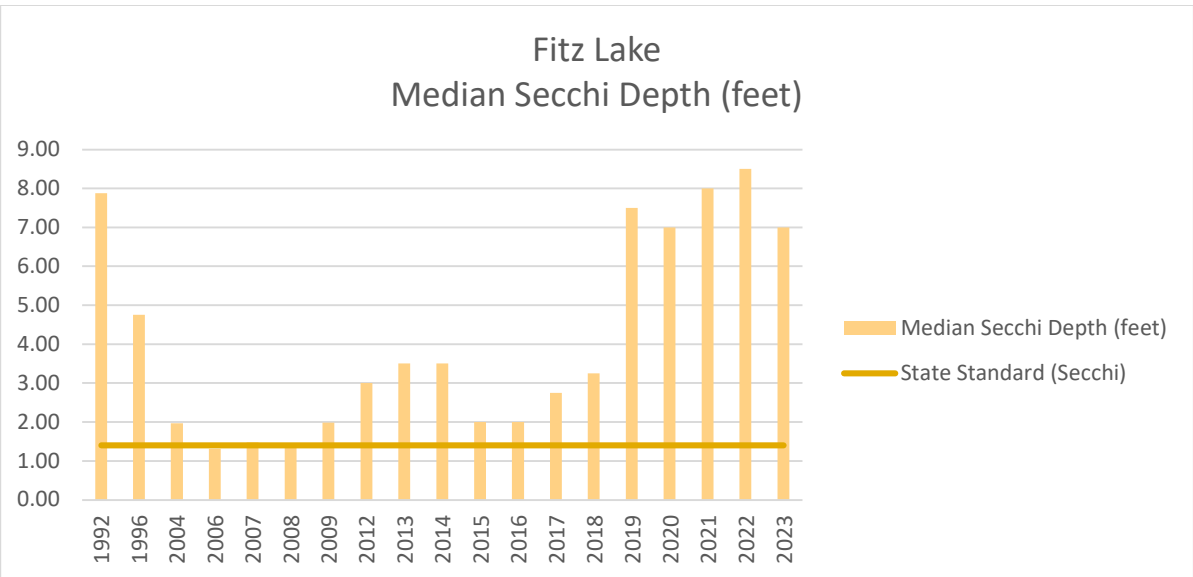
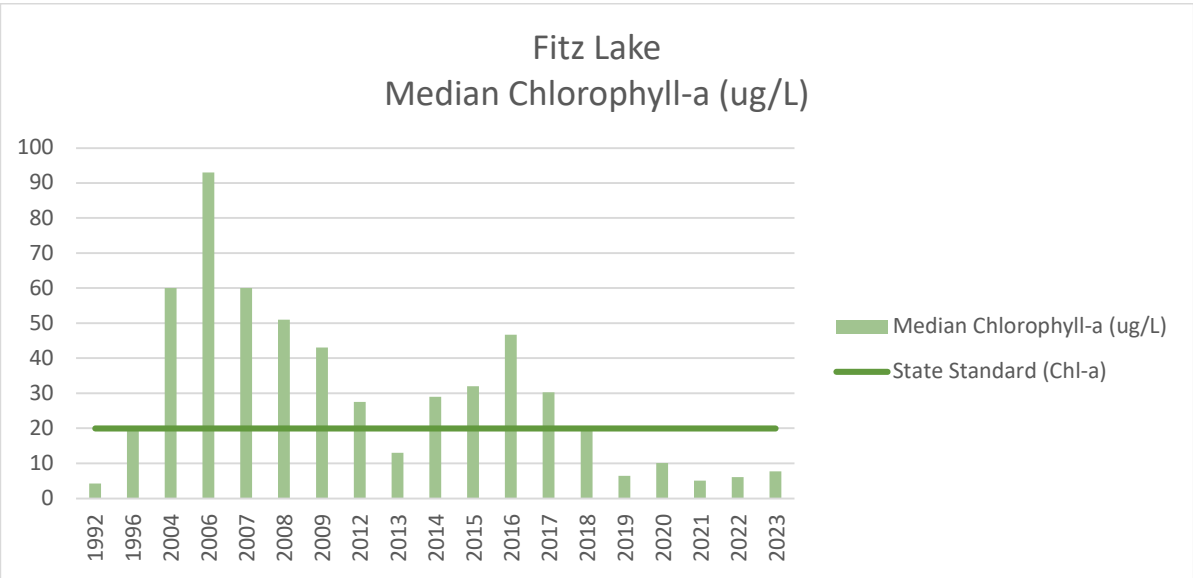
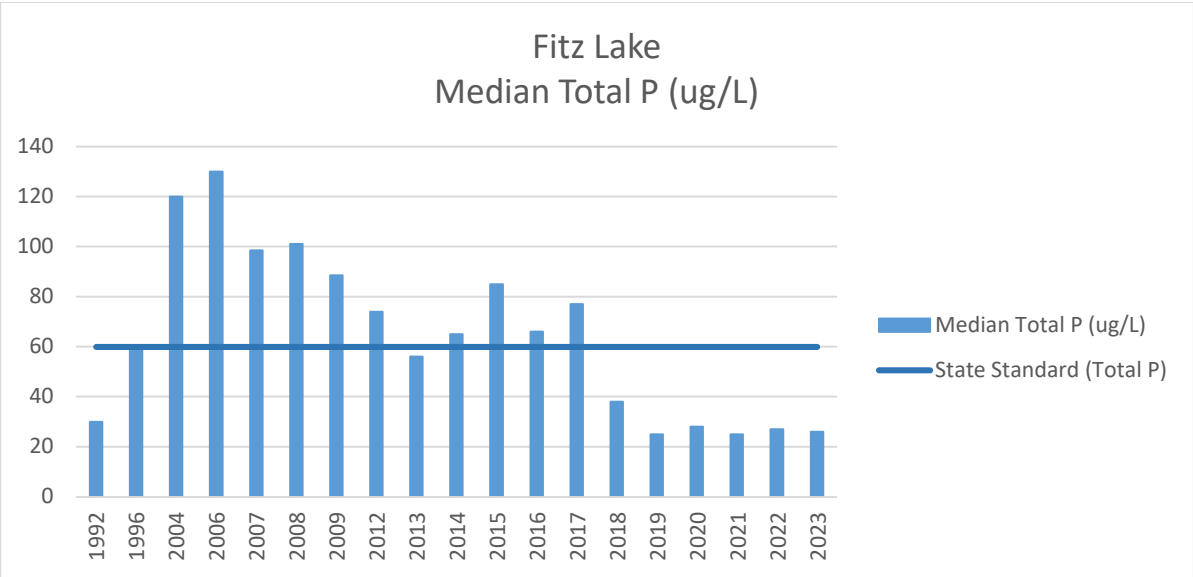
# Fitz Lake

<b>City ID:</b>	LP-26
<b>Waterbody type:</b>	Shallow Lake
<b>Surface area:</b>	14.00 acres
<b>Average depth:</b>	5.10 feet
<b>Maximum depth:</b>	9.40 feet
<b>Public access:</b>	No
<b>Supported uses:</b>	Habitat, Education, Aesthetics



## WATER QUALITY IMPROVEMENTS [2020-PRESENT]

No recent improvements. Fitz Lake was removed from the State's list of impaired waters in 2024, following installation of two iron-enhanced sand filters to manage stormwater inputs, and an in-lake alum application in 2017. The lake is known to contain bass, black bullhead, minnows, and non-native goldfish - but is not maintained for public fishing due to a lack of dedicated access.





# Impairment Summary

## Fitz Lake


**Year Listed:** 2014

**Year Delisted:** 2022

**Impairment:** Nutrients (Stormwater)

**TMDL Approved:** Yes; 2015

**Impaired Use(s):** Aquatic Recreation



Excessive nutrient loading is one of the most common sources of impairment in surface waterbodies, especially those in urban areas like Eagan. In our landscape, nutrients mainly come from developed areas - referred to as 'impervious surfaces' - where water can't soak into the ground. Rather, it runs off the surface into nearby waterways, carrying whatever pollutants have accumulated with it.

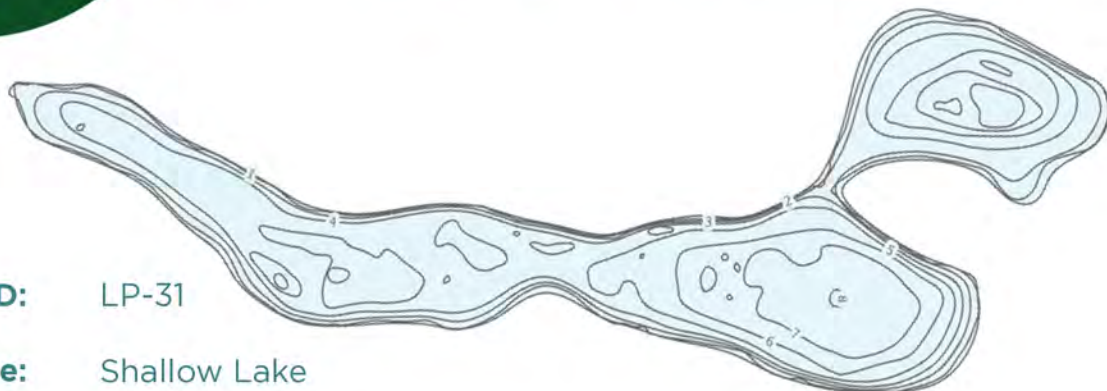
Nutrient pollution can lead to excessive algae growth, low dissolved oxygen levels, and ultimately toxicity to aquatic life.

The City of Eagan has used several strategies to reduce nutrient levels in our lakes. Alum applications, watershed management practices, and regulating developments to require that they treat stormwater before it leaves their properties are just some of the ways we have restored these waters back to meeting standards.

**As of 2026, the City will have no nutrient impaired waters listed on the State of Minnesota's 3030(d) List of Impaired Waters. This is a direct result of Eagan's restoration efforts - supported by our community each year!**



# Hay Lake

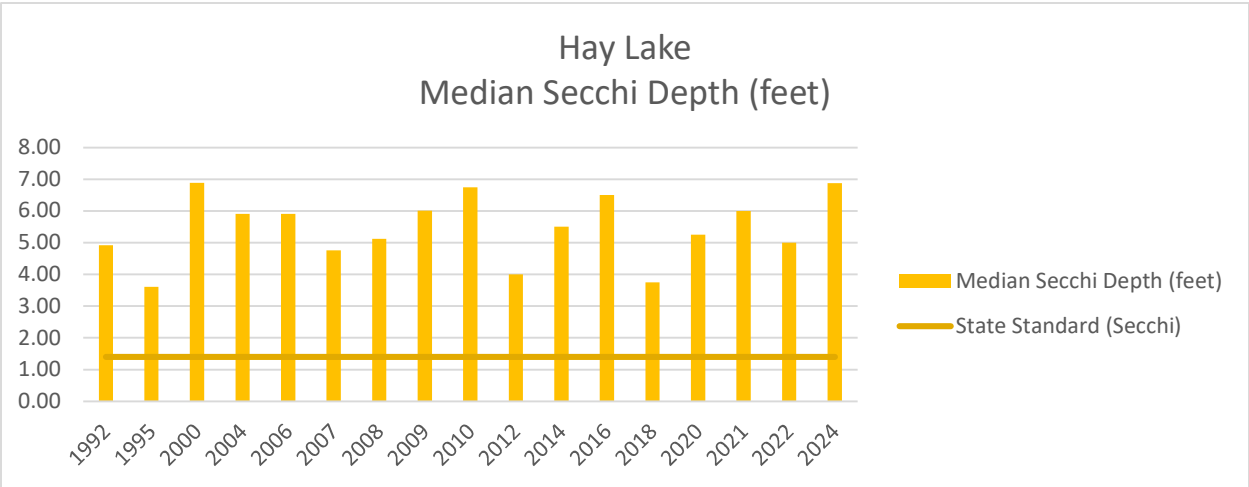
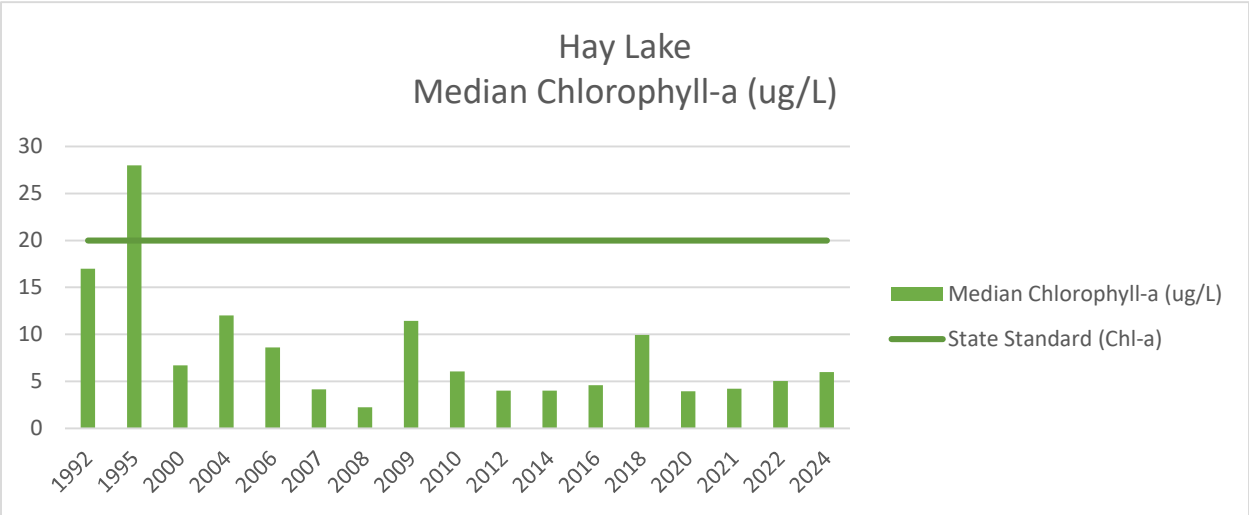
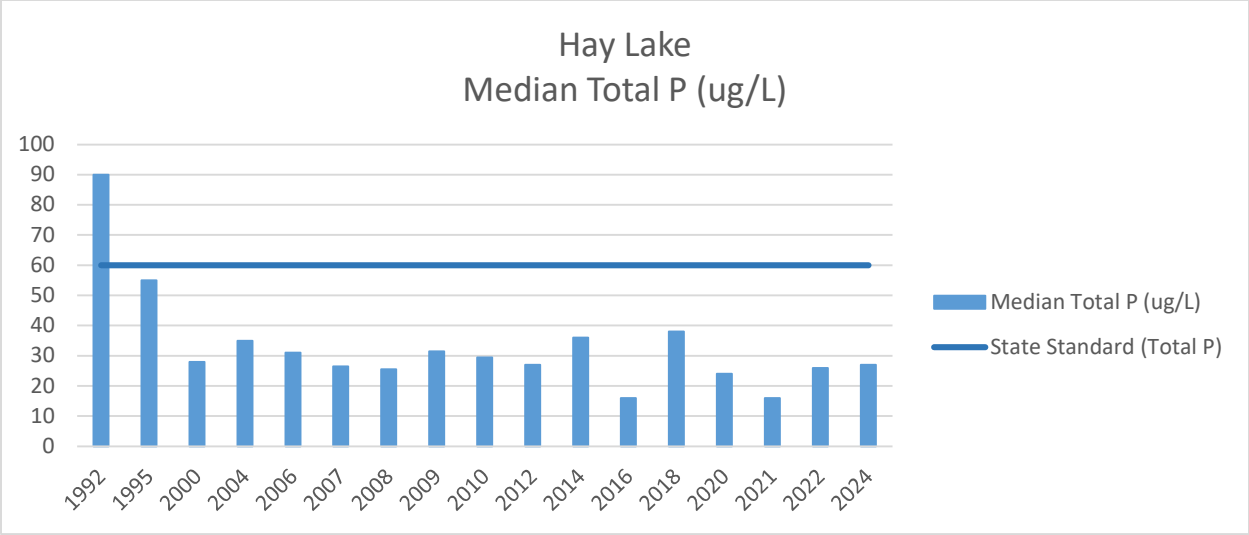


<b>City ID:</b>	LP-31
<b>Waterbody type:</b>	Shallow Lake
<b>Surface area:</b>	23.05 acres
<b>Average depth:</b>	3.40 feet
<b>Maximum depth:</b>	9.87 feet
<b>Public access:</b>	Yes
<b>Supported uses:</b>	Fishing, Canoeing/ Kayaking

## WATER QUALITY IMPROVEMENTS [2020-PRESENT]

As Needed	●	Aerated in winter as needed to prevent fish kills
2020	●	Alum application to reduce in-lake nutrient load
	●	

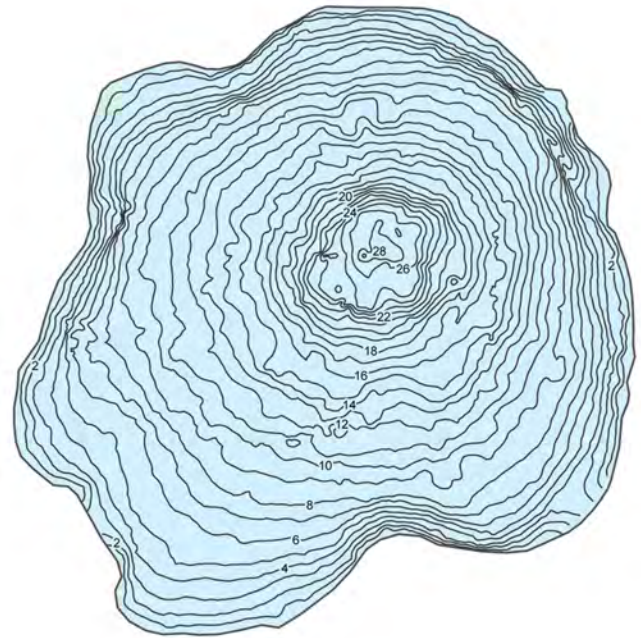






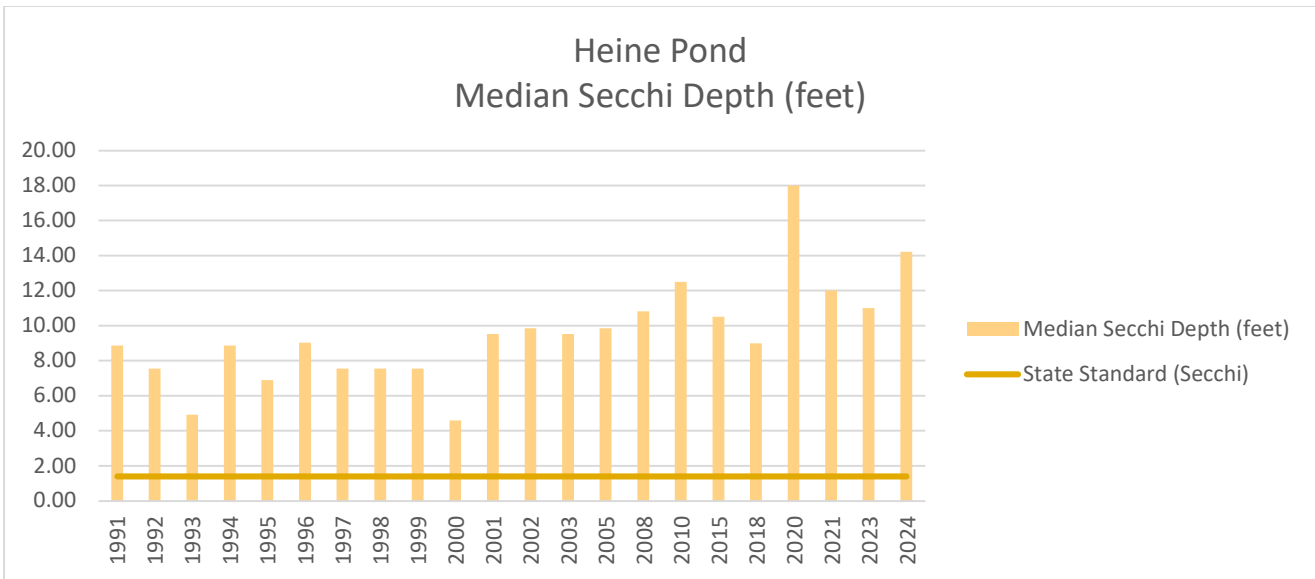
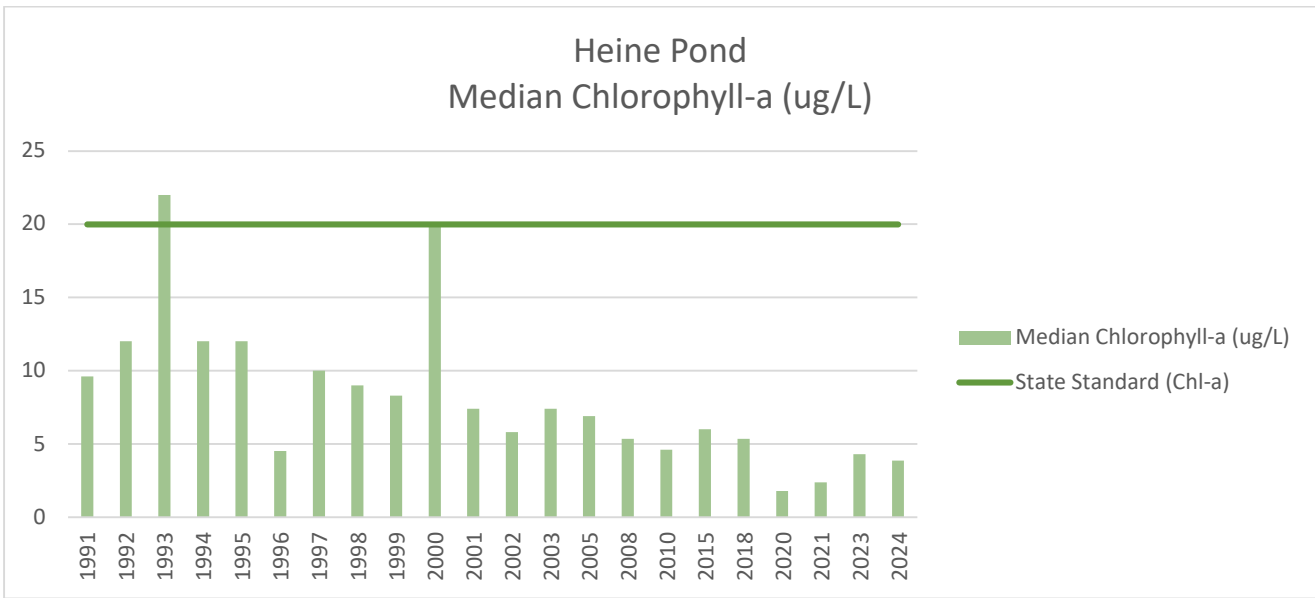
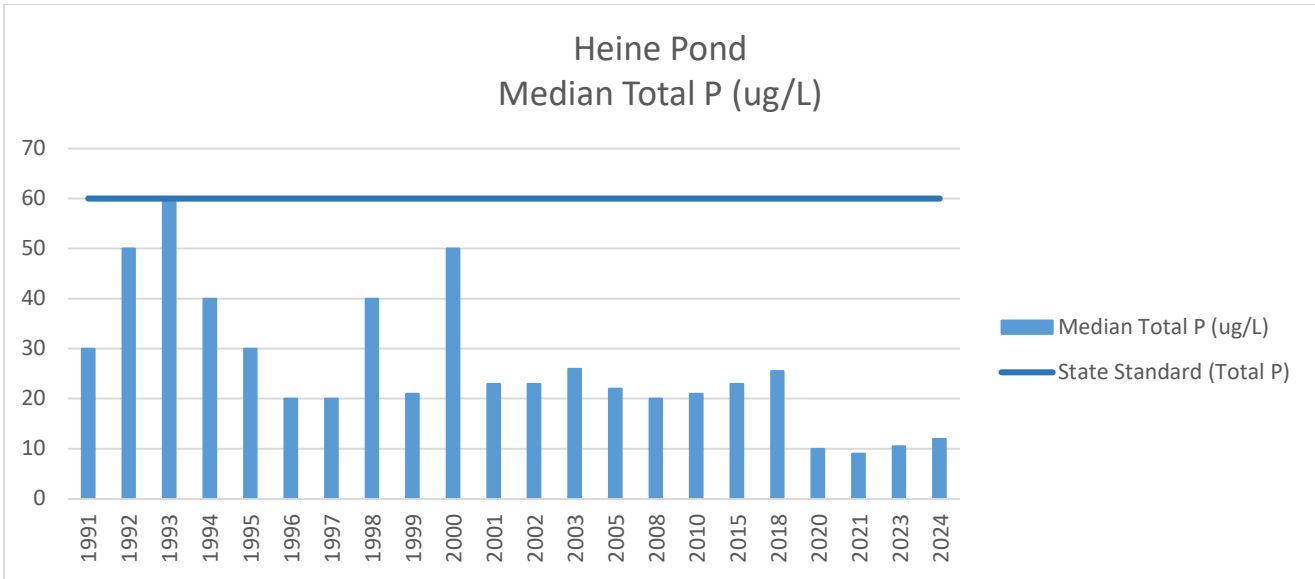
# Heine Pond

<b>City ID:</b>	BP-5
<b>Waterbody type:</b>	Shallow lake
<b>Surface area:</b>	7.40 acres
<b>Maximum depth:</b>	28.97 feet
<b>Public access:</b>	Yes
<b>Supported uses:</b>	Fishing, Canoeing/ Kayaking, Swimming



## WATER QUALITY IMPROVEMENTS [2019-PRESENT]

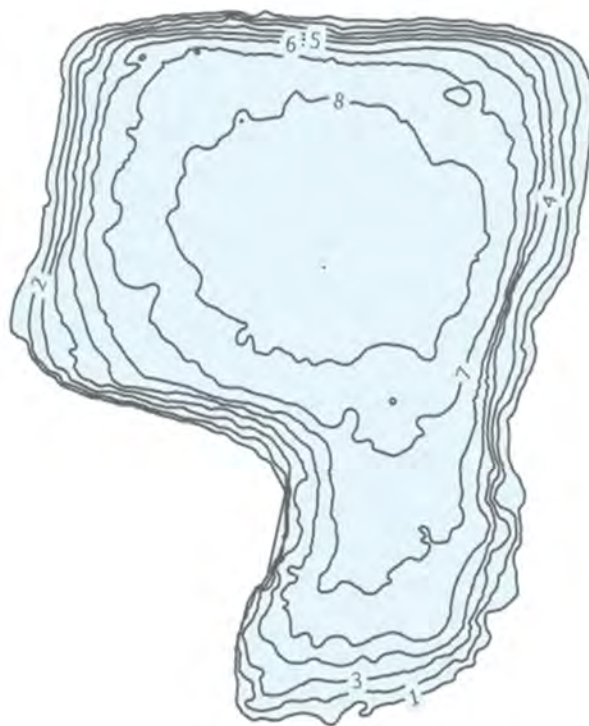
As needed	●	Aerated in winter as needed to prevent fish kills
2019	●	Alum application to reduce in-lake nutrient load
2022	●	Stocked: 425 Walleye (6-8 inches)





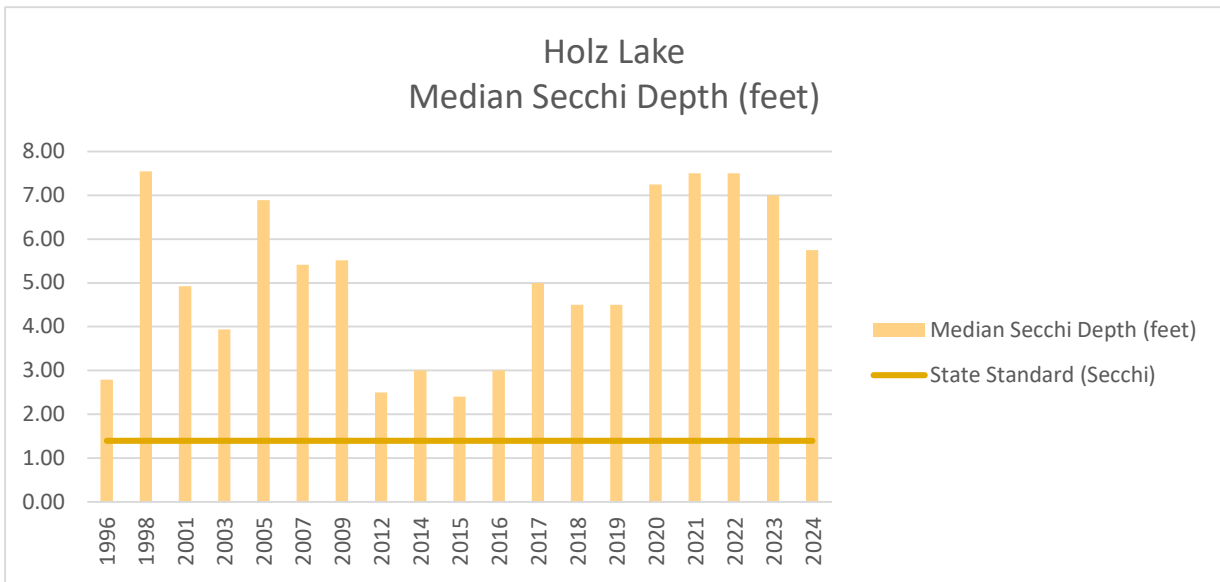
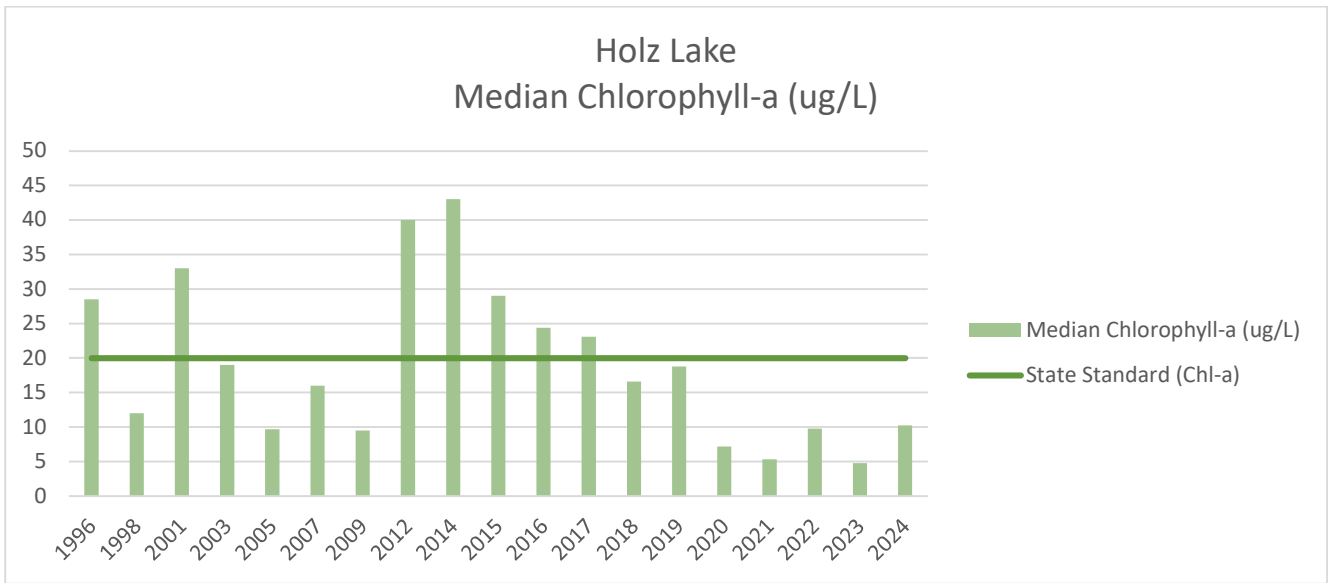
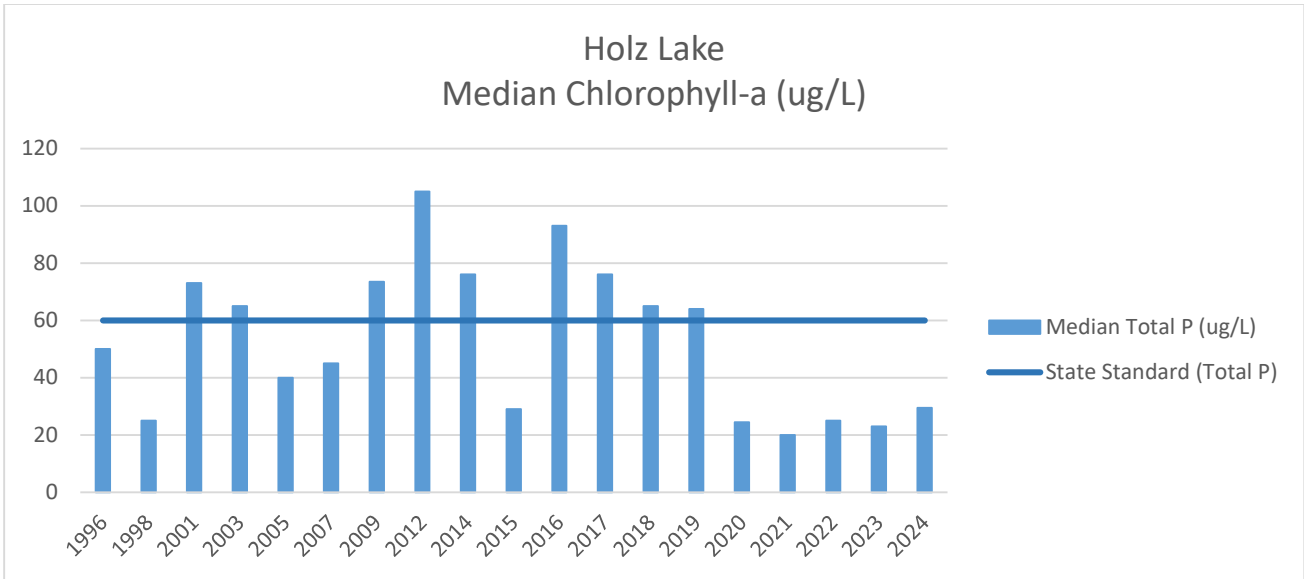
# Holz Lake

<b>City ID:</b>	LP-28
<b>Waterbody type:</b>	Shallow Lake
<b>Surface area:</b>	11.26 acres
<b>Average depth:</b>	5.50 feet
<b>Maximum depth:</b>	9.90 feet
<b>Public access:</b>	Yes
<b>Supported uses:</b>	Fishing, Canoeing/ Kayaking



## WATER QUALITY IMPROVEMENTS [2019-PRESENT]

As Needed	●	Aerated in winter as needed to prevent fish kills
2019	●	Alum application to reduce in-lake nutrient load
	●	Stocked - 700 Green Sunfish (yearlings)







# Impairment Summary

## Holz Lake


**Year Listed:** 2014

**Year Delisted:** \*Pending\* (2026)

**Impairment:** Nutrients (Stormwater)

**TMDL Approved:** Yes; 2015

**Impaired Use(s):** Aquatic Recreation



Excessive nutrient loading is one of the most common sources of impairment in surface waterbodies, especially those in urban areas like Eagan. In our landscape, nutrients mainly come from developed areas - referred to as 'impervious surfaces' - where water can't soak into the ground. Rather, it runs off the surface into nearby waterways, carrying whatever pollutants have accumulated with it.

Nutrient pollution can lead to excessive algae growth, low dissolved oxygen levels, and ultimately toxicity to aquatic life.

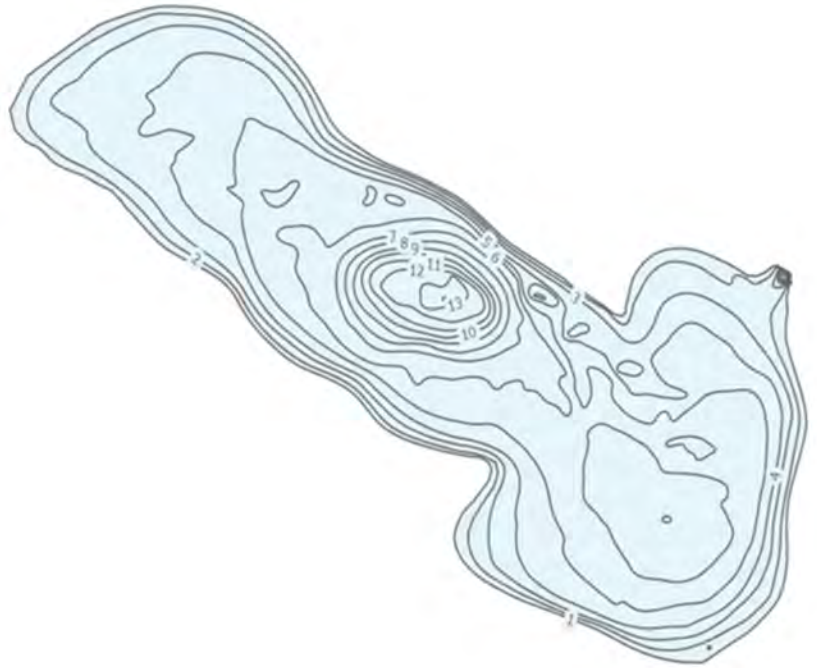
The City of Eagan has used several strategies to reduce nutrient levels in our lakes. Alum applications, watershed management practices, and regulating developments to require that they treat stormwater before it leaves their properties are just some of the ways we have restored these waters back to meeting standards.

**As of 2026, the City will have no nutrient impaired waters listed on the State of Minnesota's 3030(d) List of Impaired Waters. This is a direct result of Eagan's restoration efforts - supported by our community each year!**



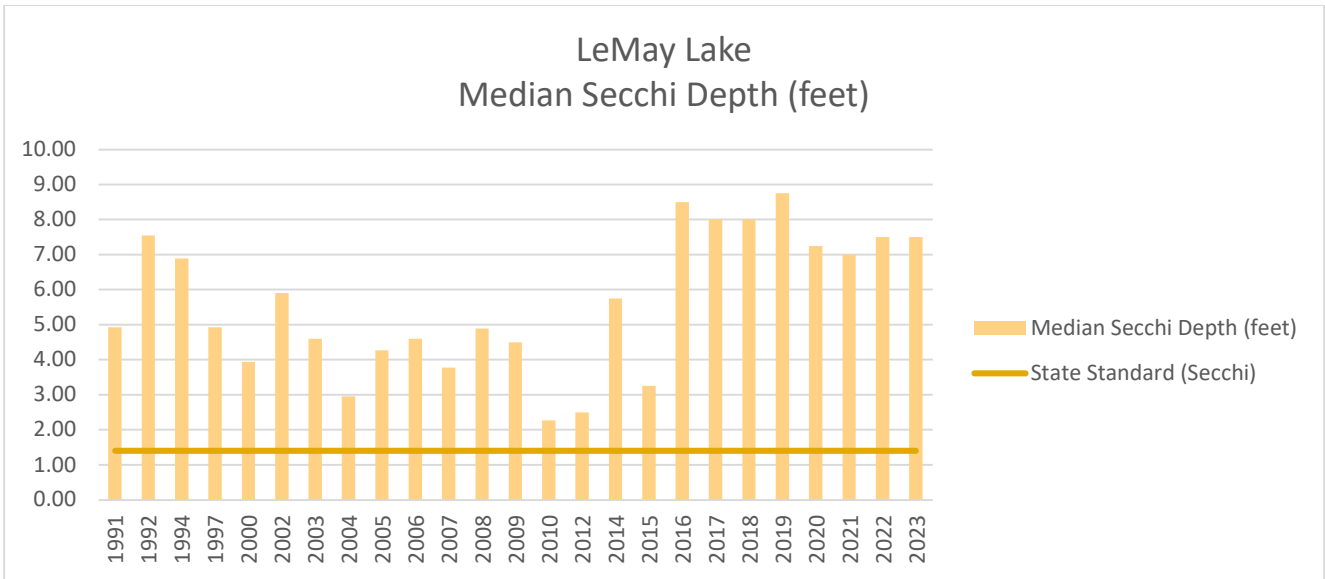
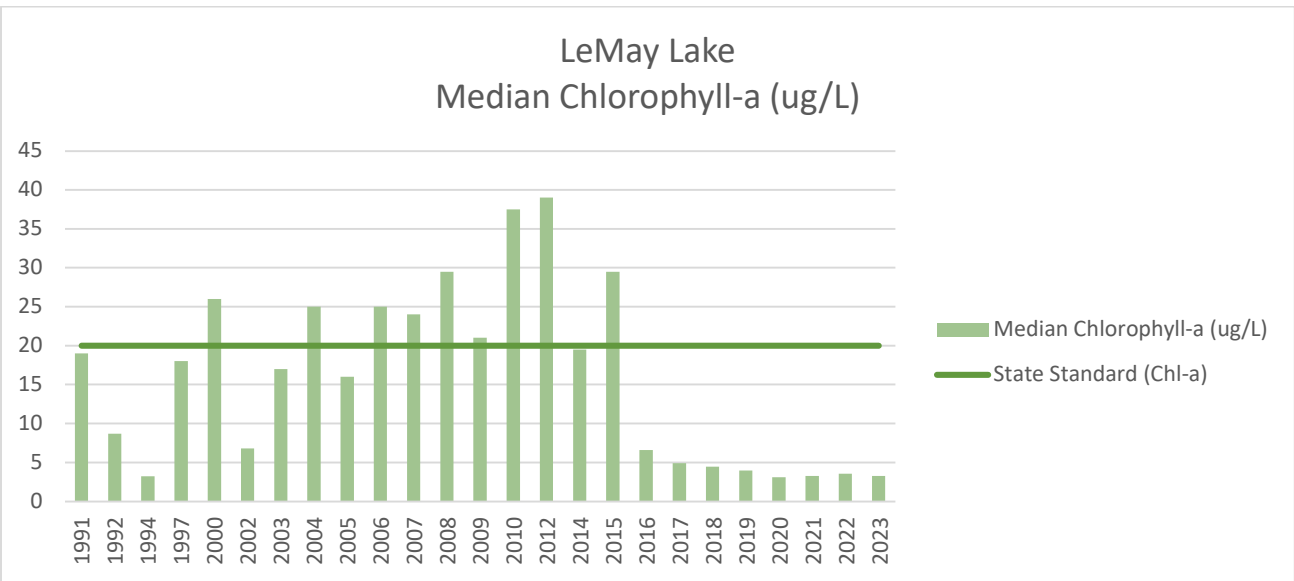
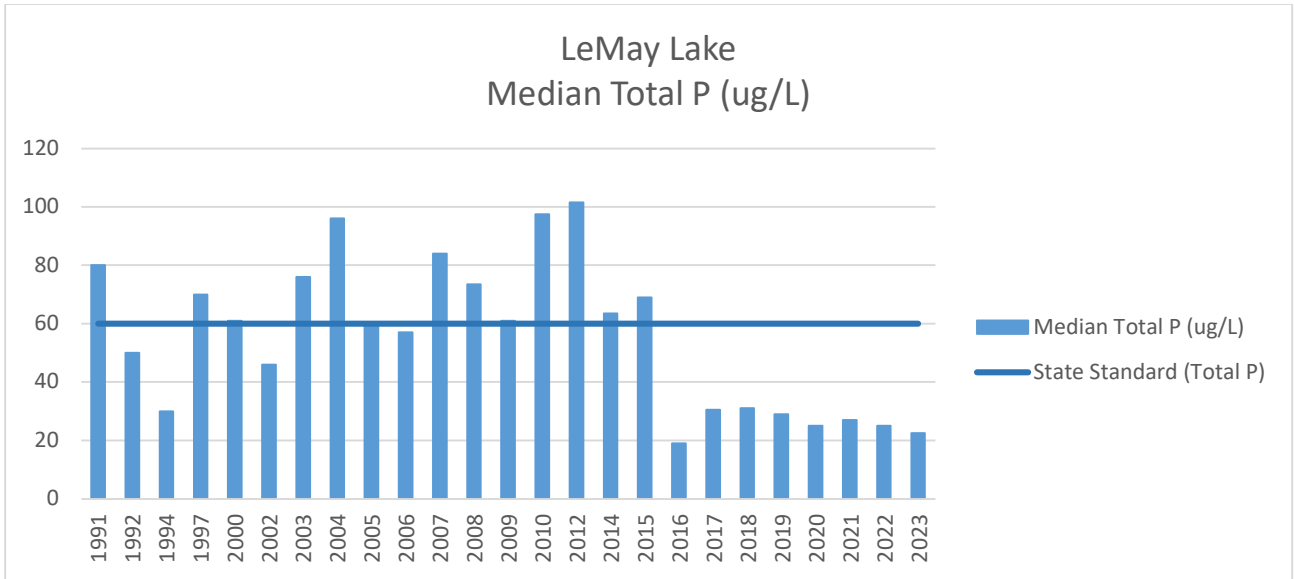
# LeMay Lake

<b>City ID:</b>	DP-2
<b>Waterbody type:</b>	Shallow lake
<b>Surface area:</b>	36.46 acres
<b>Average depth:</b>	4.59 feet
<b>Maximum depth:</b>	14.51 feet
<b>Public access:</b>	Yes
<b>Supported uses:</b>	Fishing, Canoeing/ Kayaking



## WATER QUALITY IMPROVEMENTS [2019–PRESENT]

As needed	●	Aerated in winter as needed to prevent fish kills
2019	●	Alum application to reduce in-lake nutrient load
	●	





# Impairment Summary

## LeMay Lake


**Year Listed:** 2014

**Year Delisted:** 2022

**Impairment:** Nutrients (Stormwater)

**TMDL Approved:** Yes; 2015

**Impaired Use(s):** Aquatic Recreation



Excessive nutrient loading is one of the most common sources of impairment in surface waterbodies, especially those in urban areas like Eagan. In our landscape, nutrients mainly come from developed areas - referred to as 'impervious surfaces' - where water can't soak into the ground. Rather, it runs off the surface into nearby waterways, carrying whatever pollutants have accumulated with it.

Nutrient pollution can lead to excessive algae growth, low dissolved oxygen levels, and ultimately toxicity to aquatic life.

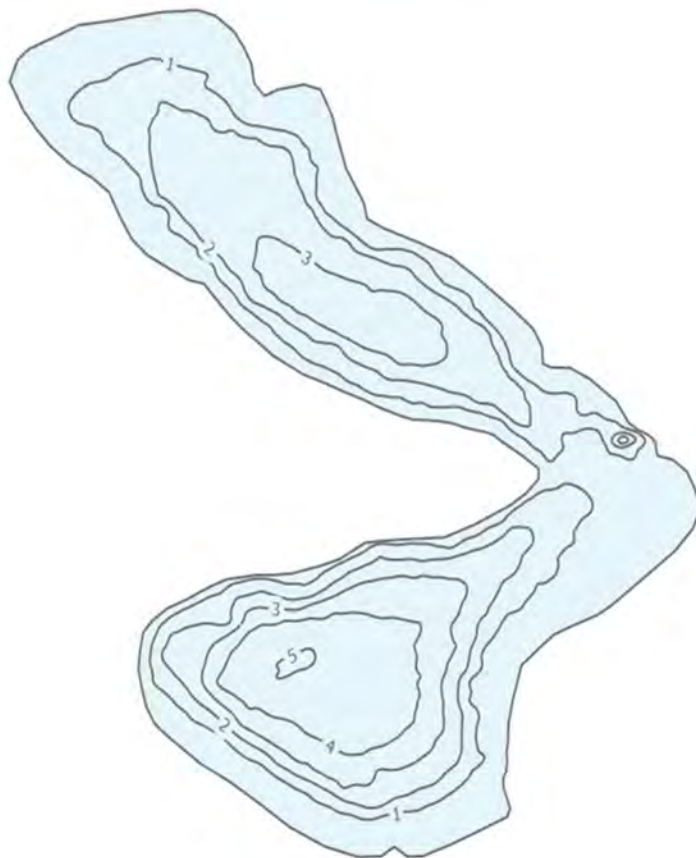
The City of Eagan has used several strategies to reduce nutrient levels in our lakes. Alum applications, watershed management practices, and regulating developments to require that they treat stormwater before it leaves their properties are just some of the ways we have restored these waters back to meeting standards.

**As of 2026, the City will have no nutrient impaired waters listed on the State of Minnesota's 3030(d) List of Impaired Waters. This is a direct result of Eagan's restoration efforts - supported by our community each year!**



# McCarthy Lake

<b>City ID:</b>	JP-9
<b>Waterbody Type:</b>	Shallow Lake
<b>Surface Area:</b>	11.42 acres
<b>Maximum Depth:</b>	5.00 feet
<b>Public Access:</b>	Yes
<b>Supported Uses:</b>	Habitat, Education, Aesthetics

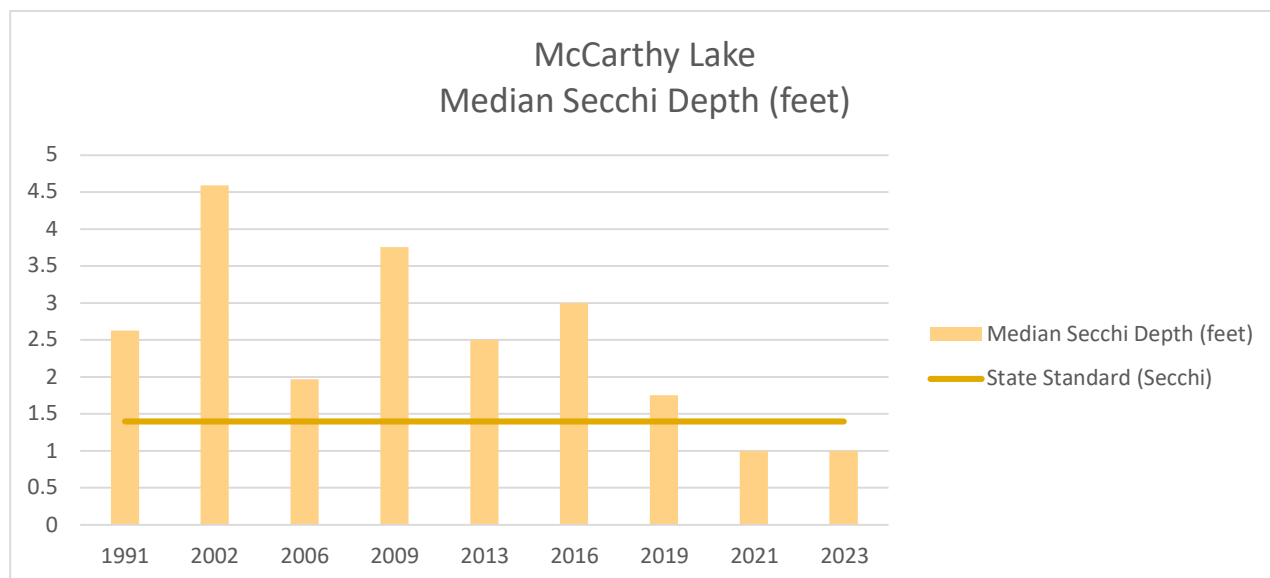
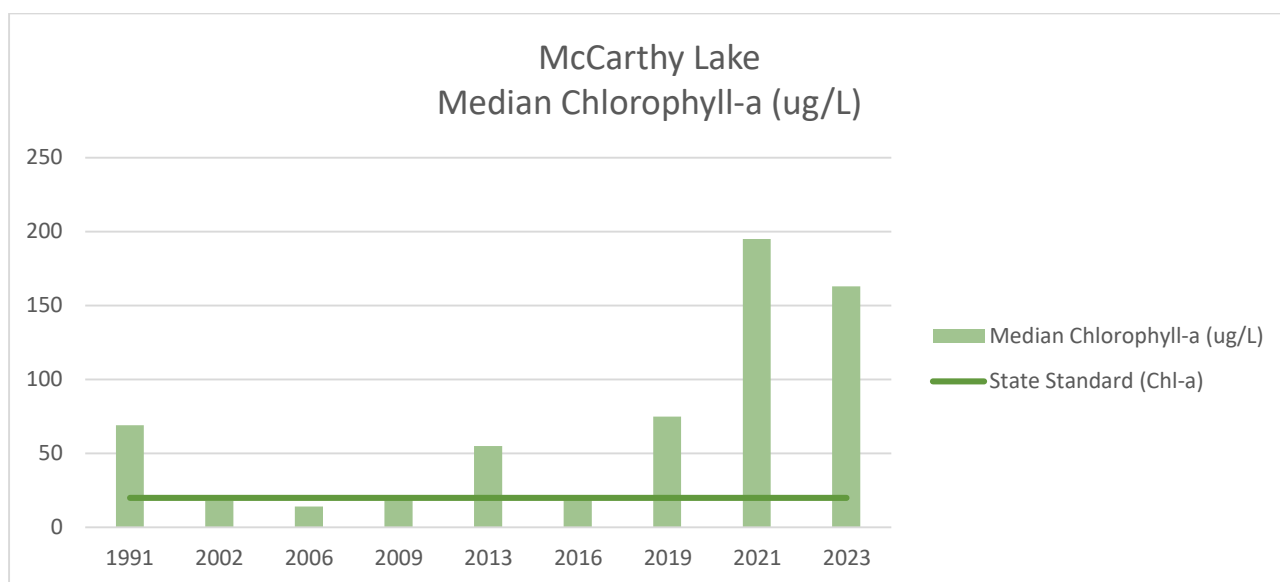
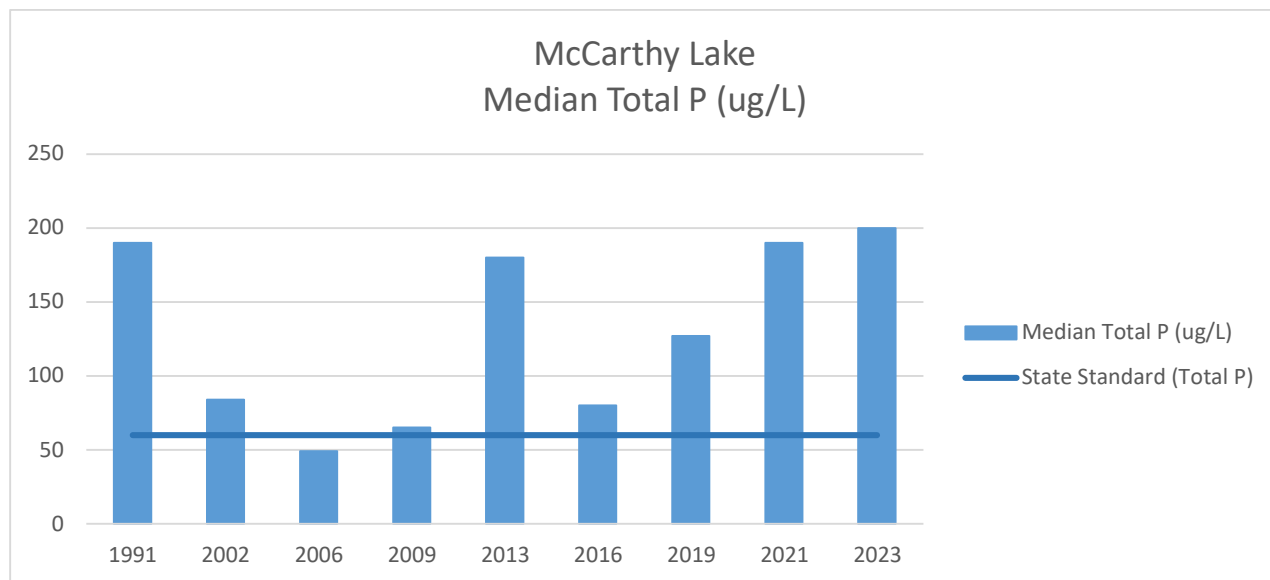


## WATER QUALITY IMPROVEMENTS [2020-PRESENT]

2025

Iron-enhanced sand filter installed as part of the new Eagan Art House construction project, designed to capture and treat stormwater from existing and new impervious surfaces prior to discharge into McCarthy Lake

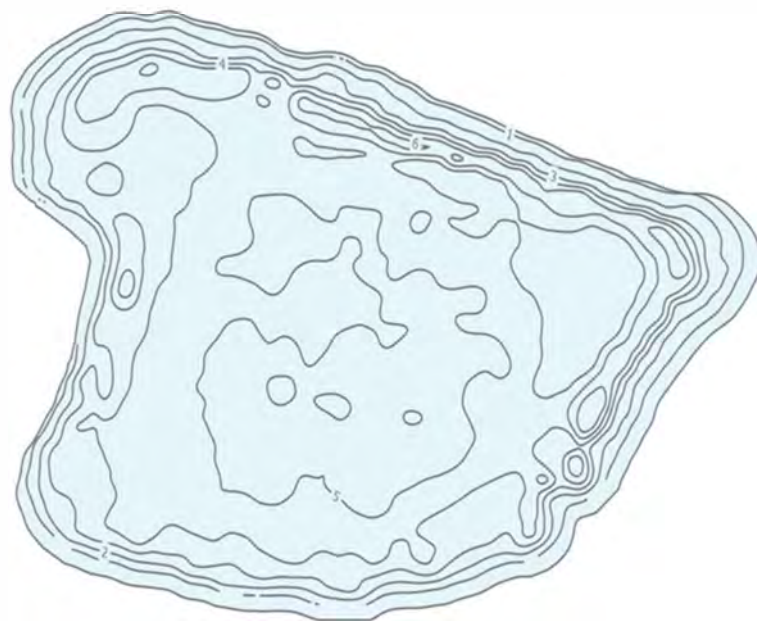






# Mooney Pond

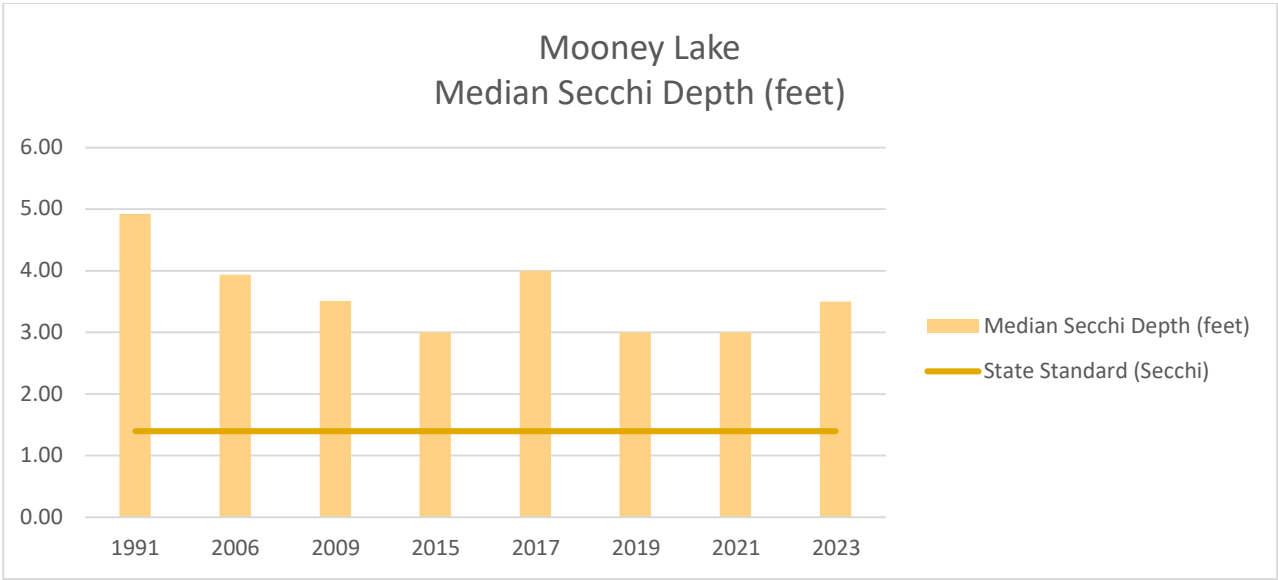
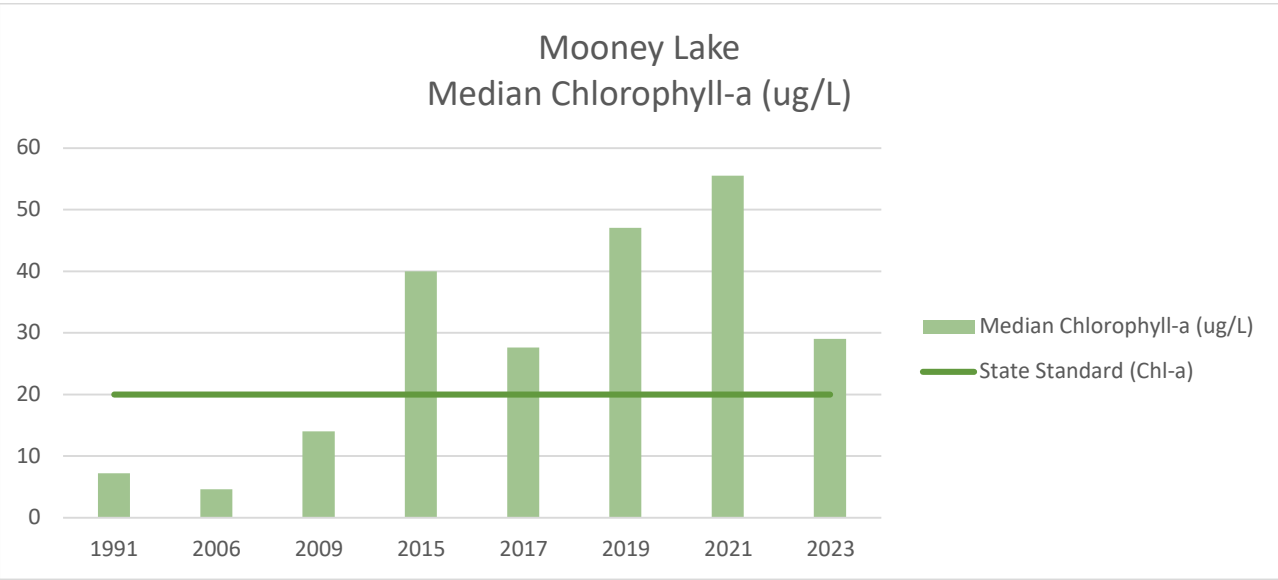
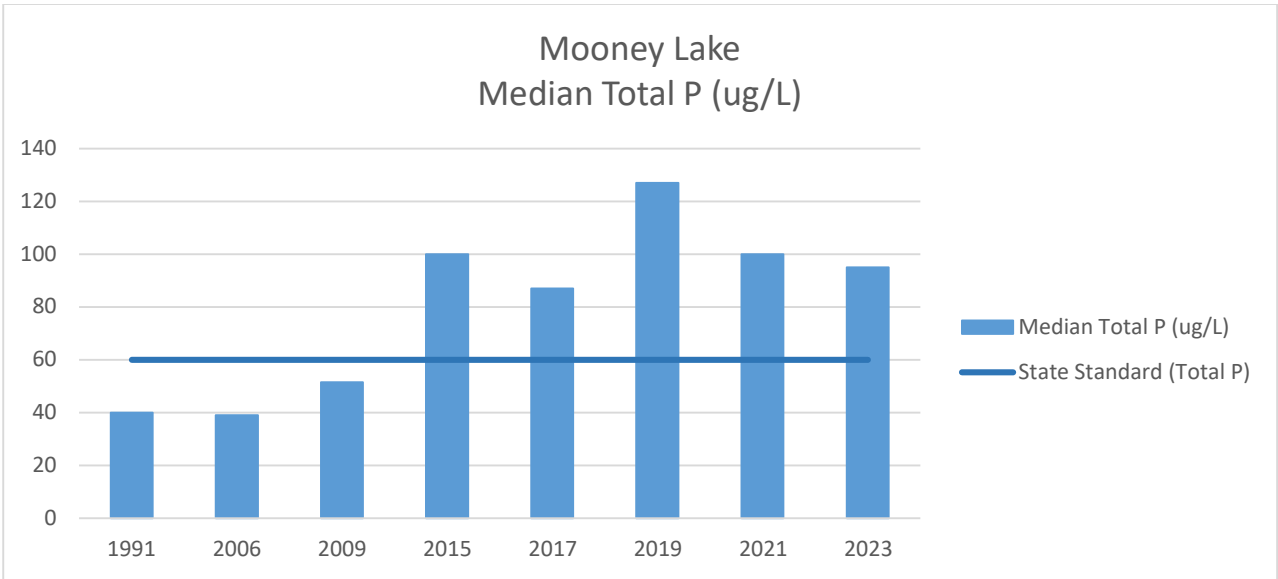
<b>City ID:</b>	JP-7
<b>Waterbody Type:</b>	Shallow Lake
<b>Surface Area:</b>	7.56 acres
<b>Average Depth:</b>	4.02 feet
<b>Maximum Depth:</b>	7.71 feet
<b>Public Access:</b>	Yes
<b>Supported Uses:</b>	Habitat, Education, Aesthetics



## WATER QUALITY IMPROVEMENTS [2020-PRESENT]

Known to support small minnow species, frogs, insects, and native aquatic plants.  
The surrounding area is accessible for birdwatching and trail walking,

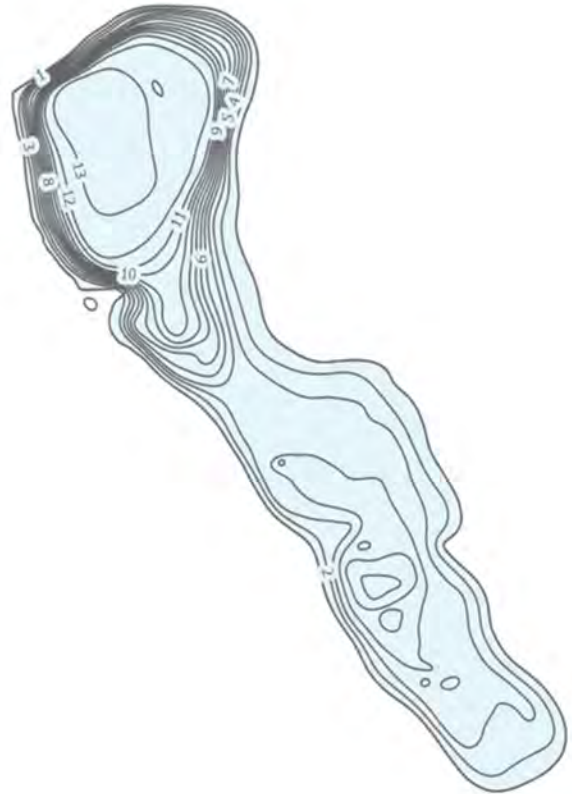
Not currently maintained for recreational fishing.





# North Lake

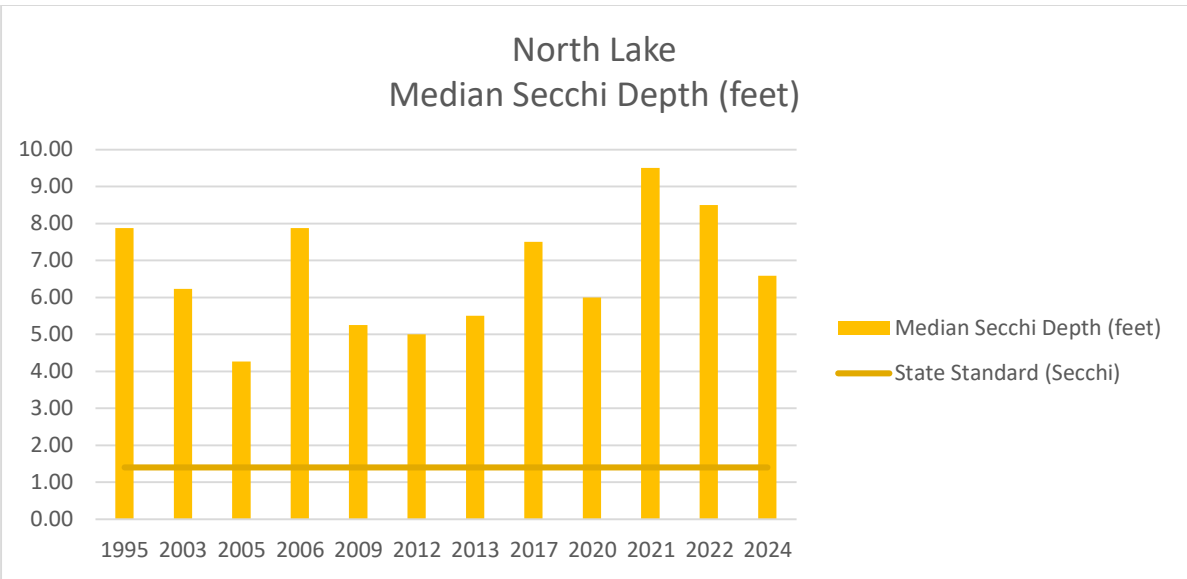
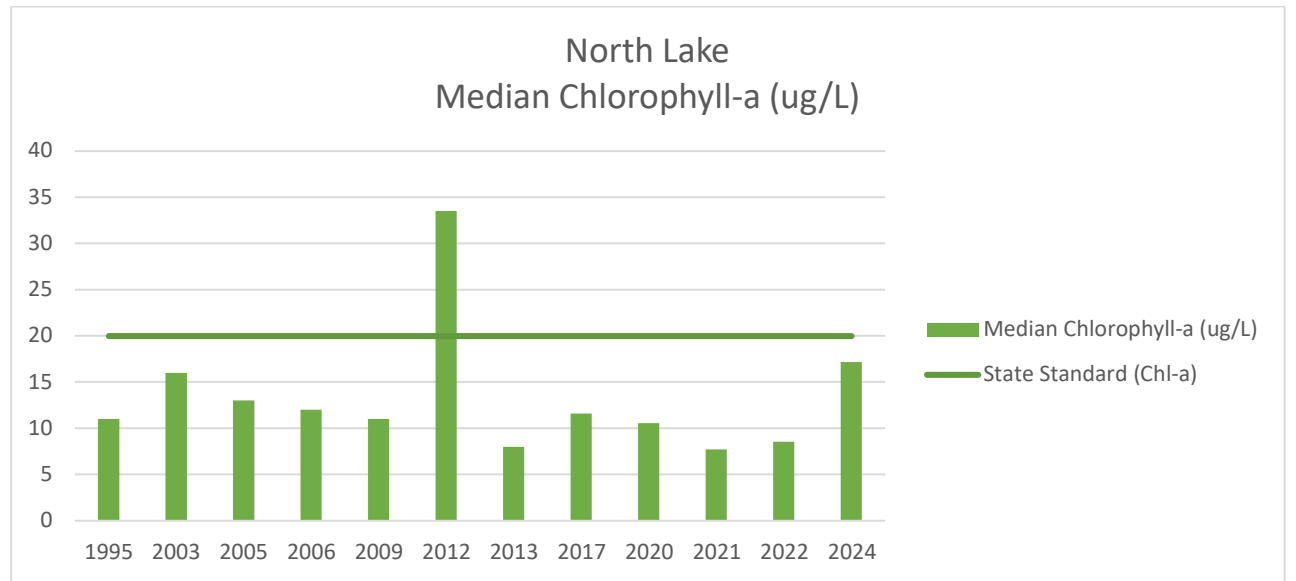
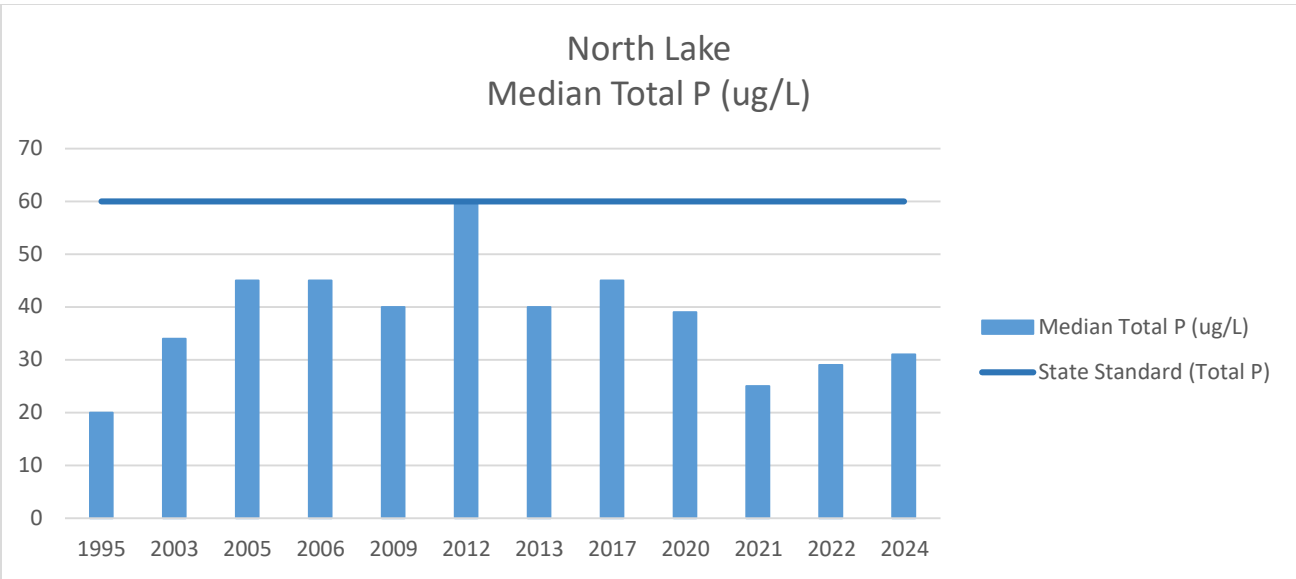
<b>City ID:</b>	EP-2
<b>Waterbody Type:</b>	Shallow Lake
<b>Surface Area:</b>	16.46 acres
<b>Maximum Depth:</b>	12.00 feet
<b>Public Access:</b>	Yes
<b>Supported Uses:</b>	Fishing, Canoeing / Kayaking



## WATER QUALITY IMPROVEMENTS [2020-PRESENT]









# Impairment Summary


## North Lake

**Year Listed:** 2008

**Impairment:** Mercury in Fish Tissue

**TMDL Approved:** Yes; Southwest Region Mercury TMDL

**Impaired Use(s):** Aquatic Consumption



A waterbody is listed as impaired for mercury when more than 10% of a fish species fillets have a mercury concentration of at least 0.20 parts per million (ppm). Mercury accumulates in fish tissue, specifically as ‘methylmercury,’ which is the most hazardous form of mercury for humans. Once a waterbody is contaminated with mercury, it is very difficult to remove it.

Mercury is a naturally occurring element that is highly toxic to both humans and animals. While most people associate mercury with the liquid, silvery substance from old thermometers, it can also evaporate and become airborne - and in this form can come from a variety of sources.

In Eagan’s case, the primary source is atmospheric deposition from coal-fired power plants in North Dakota. Because the source of these contaminants is not local, the state of Minnesota oversees a statewide ‘total maximum daily load’ or TMDL to manage the sources of mercury accumulating in our surface waters.



# O'Leary Lake

**City ID:** DP-7

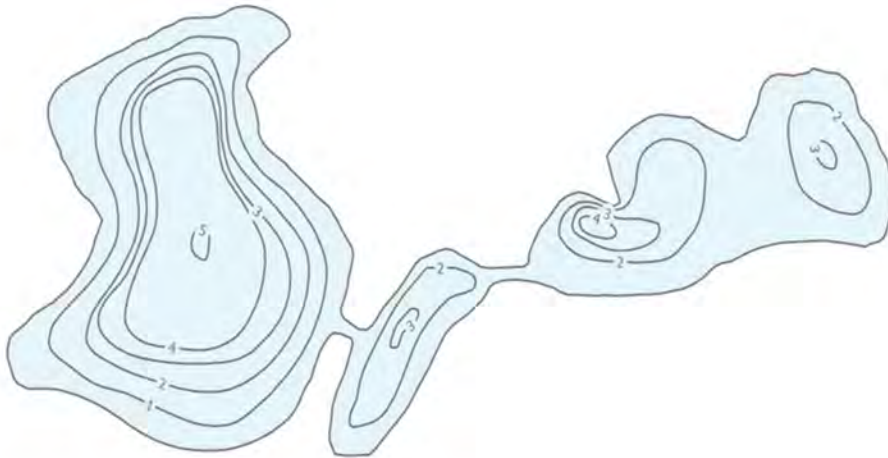
**Waterbody Type:** Shallow Lake

**Surface Area:** 15.97 acres

**Maximum Depth:** 4.00 feet

**Public Access:** Yes

**Supported Uses:** Habitat,  
Education,  
Aesthetics

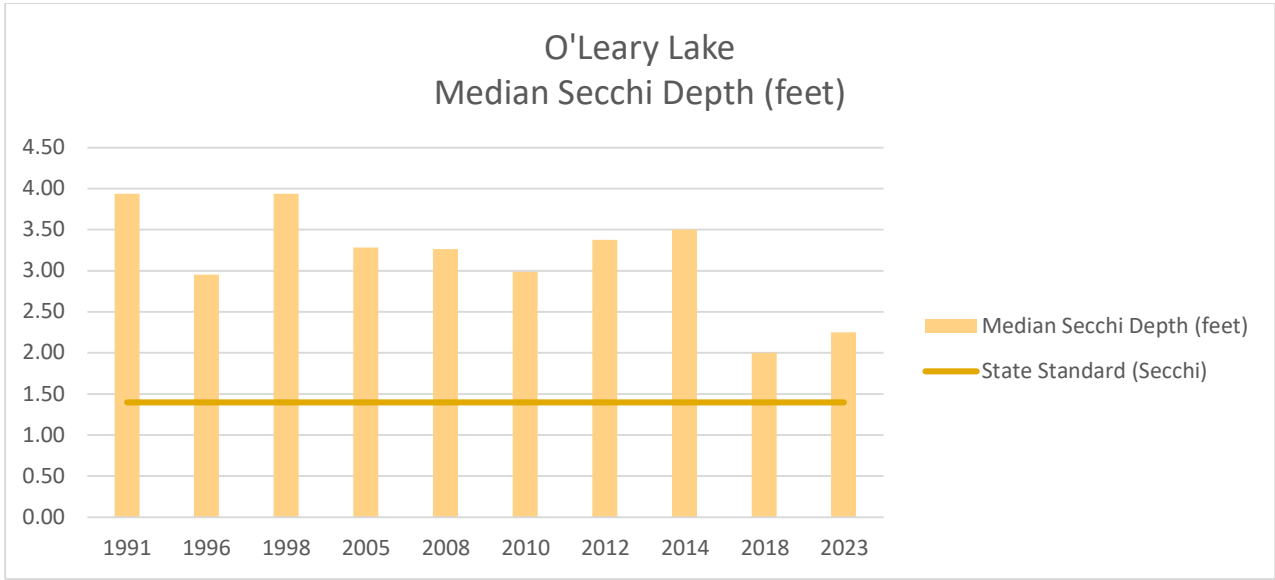
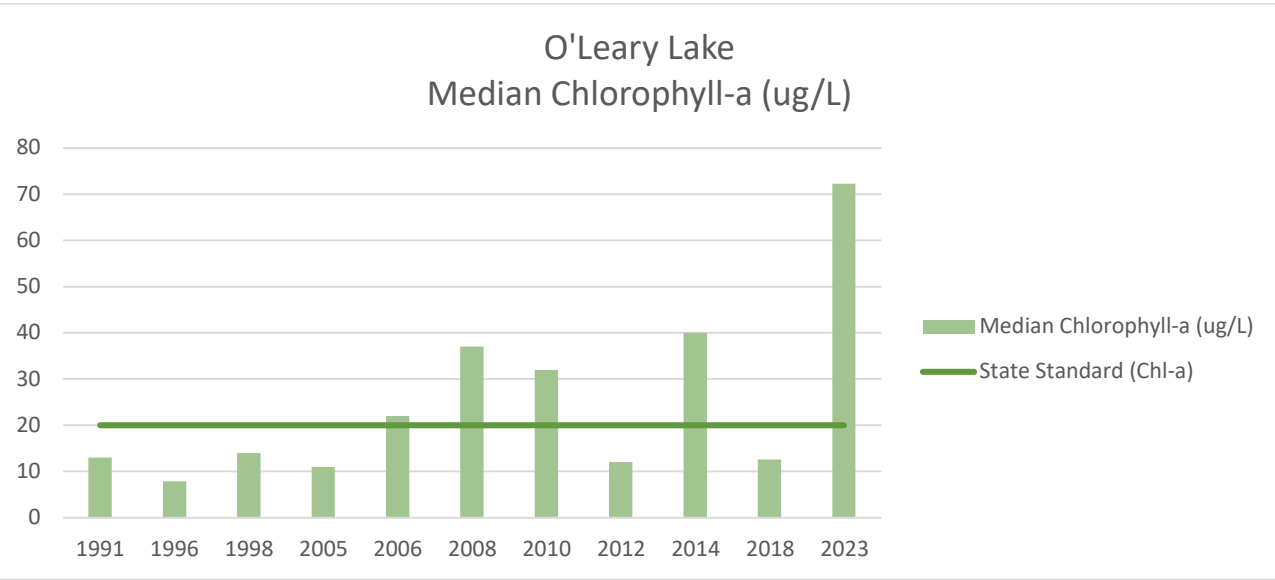
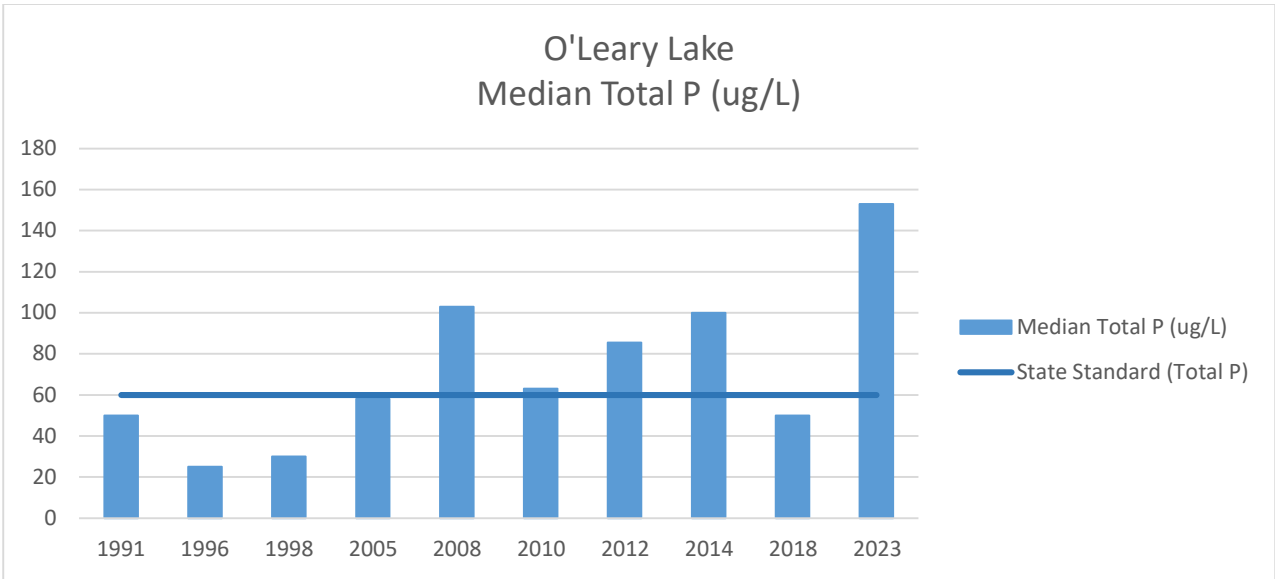


## WATER QUALITY IMPROVEMENTS [2020-PRESENT]

Known to support small minnow species, frogs, insects, and native aquatic plants.

The surrounding area is accessible for birdwatching and trail walking,

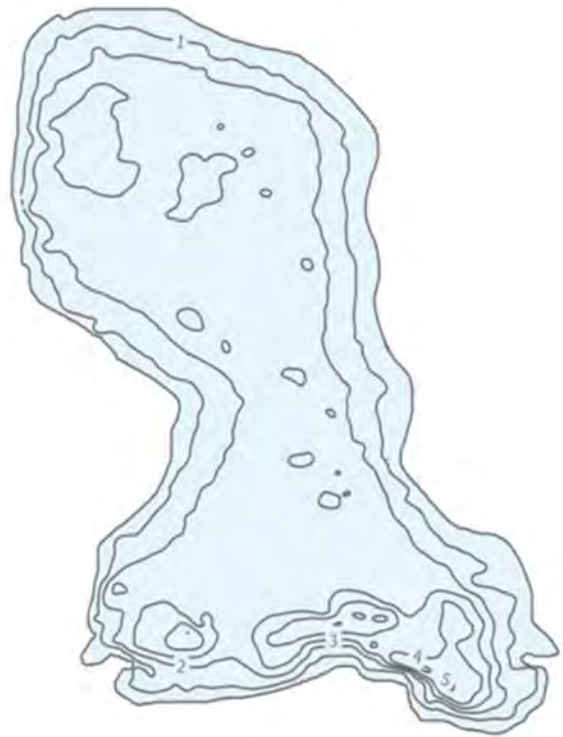
Not currently maintained for recreational fishing.





# Quigley Lake

<b>City ID:</b>	LP-43
<b>Waterbody Type:</b>	Wetland
<b>Surface Area:</b>	17.60 acres
<b>Average Depth:</b>	2.00 feet
<b>Maximum Depth:</b>	5.90 feet
<b>Public Access:</b>	Yes
<b>Supported Uses:</b>	Habitat, Education, Aesthetics



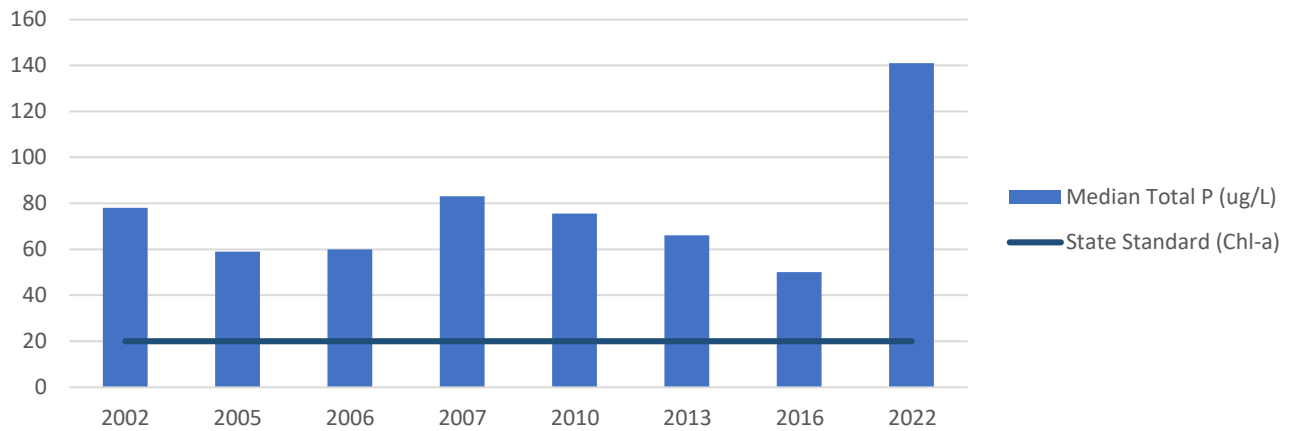
## WATER QUALITY IMPROVEMENTS [2020-PRESENT]

Known to support small minnow species, frogs, insects, and native aquatic plants.  
The surrounding area is accessible for birdwatching and trail walking,

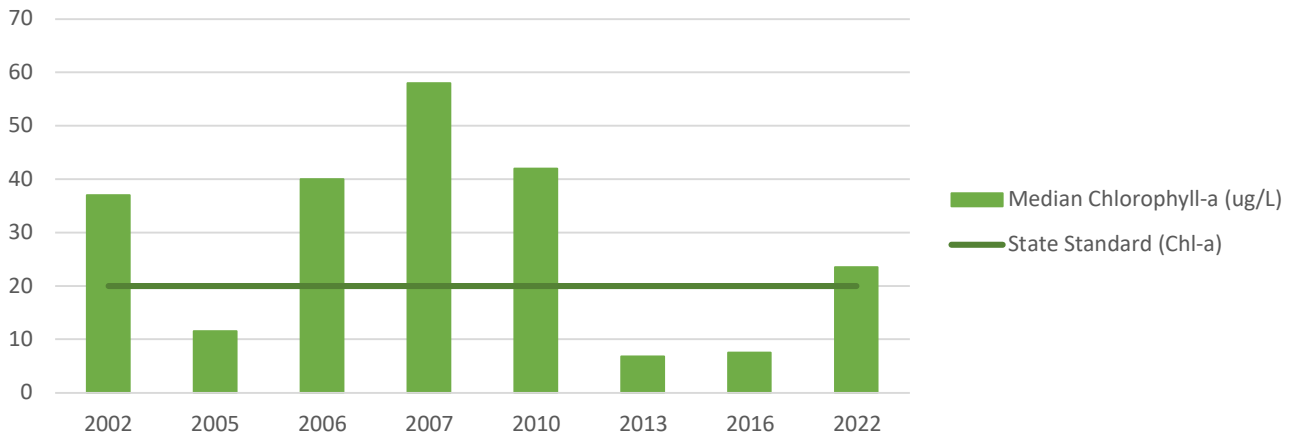
Not currently maintained for recreational fishing.



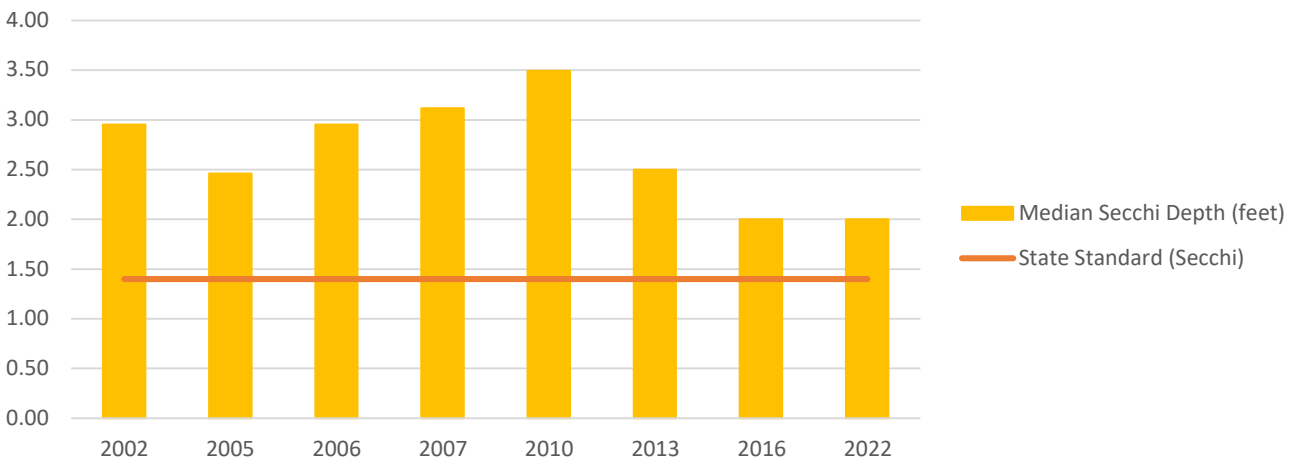
Quigley Lake  
Median Total Phosphorous (ug/L)



Quigley Lake  
Median Chlorophyll-a (ug/L)



Quigley Lake  
Median Secchi Depth (feet)





# Schwanz Lake

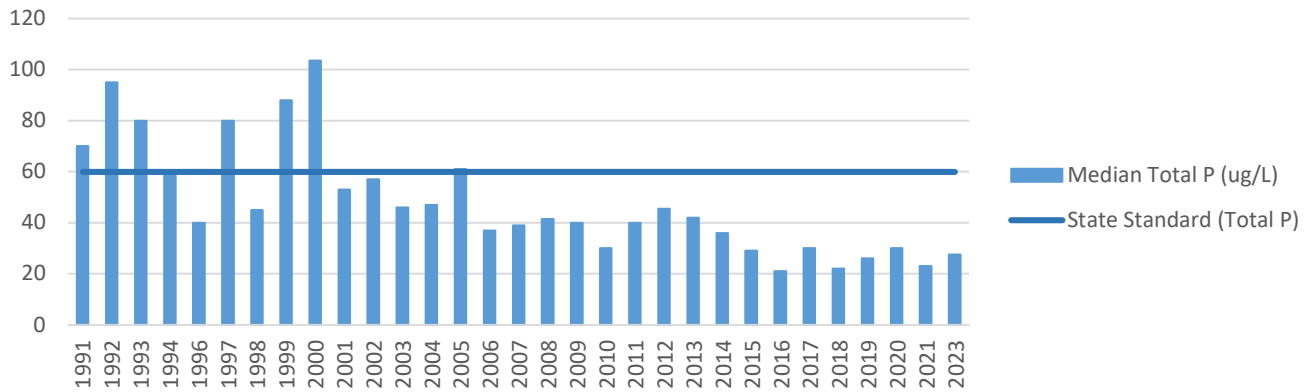
<b>City ID:</b>	LP-32
<b>Waterbody Type:</b>	Shallow Lake
<b>Surface Area:</b>	12.70 acres
<b>Average Depth:</b>	8.20 feet
<b>Maximum Depth:</b>	14.50 feet
<b>Public Access:</b>	Yes
<b>Supported Uses:</b>	Fishing, Canoeing / Kayaking



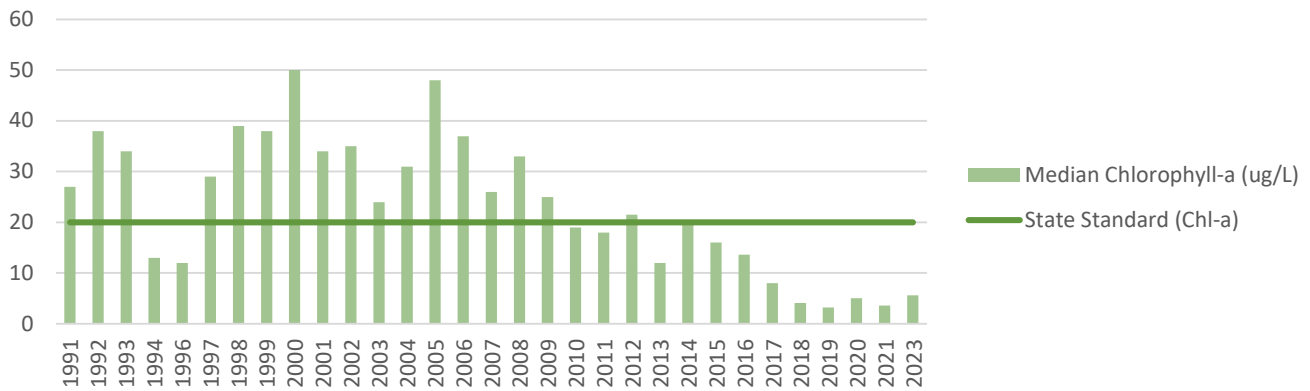
## WATER QUALITY IMPROVEMENTS [2020-PRESENT]

As Needed	●	Aerated in winter as needed to prevent fish kills
2022	●	Stocked - 425 Walleye (6-8")
2023	●	Fish population survey completed to assess overall health of the lake's fishery

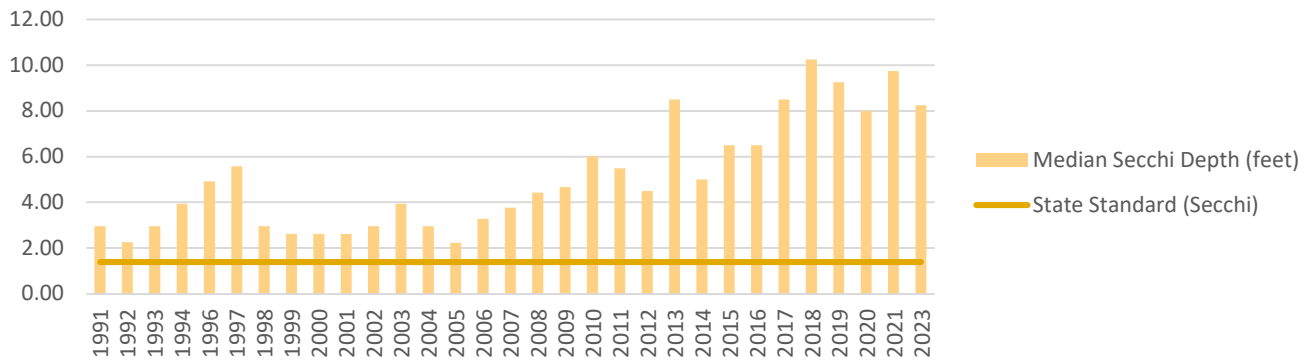
Schwanz Lake  
Median Total P (ug/L)



Schwanz Lake  
Median Chlorophyll-a (ug/L)

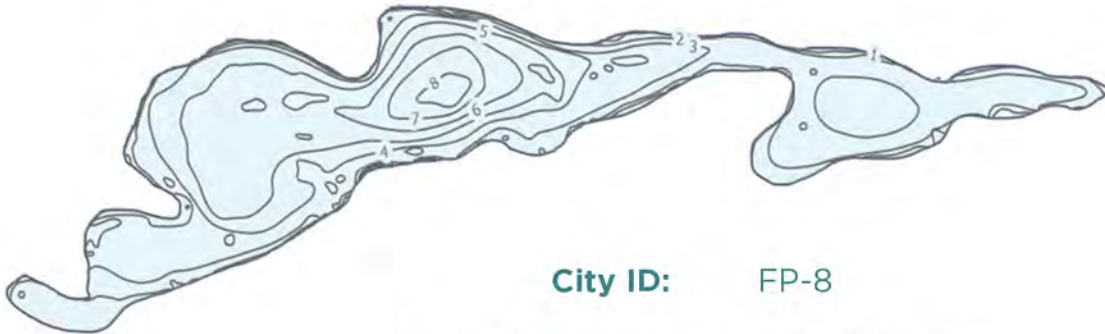


Schwanz Lake  
Median Secchi Depth (feet)





# Shanahan Lake



**City ID:** FP-8

**Waterbody Type:** Shallow Lake

**Surface Area:** 13.08 acres

**Maximum Depth:** 9.00 feet

**Public Access:** Yes

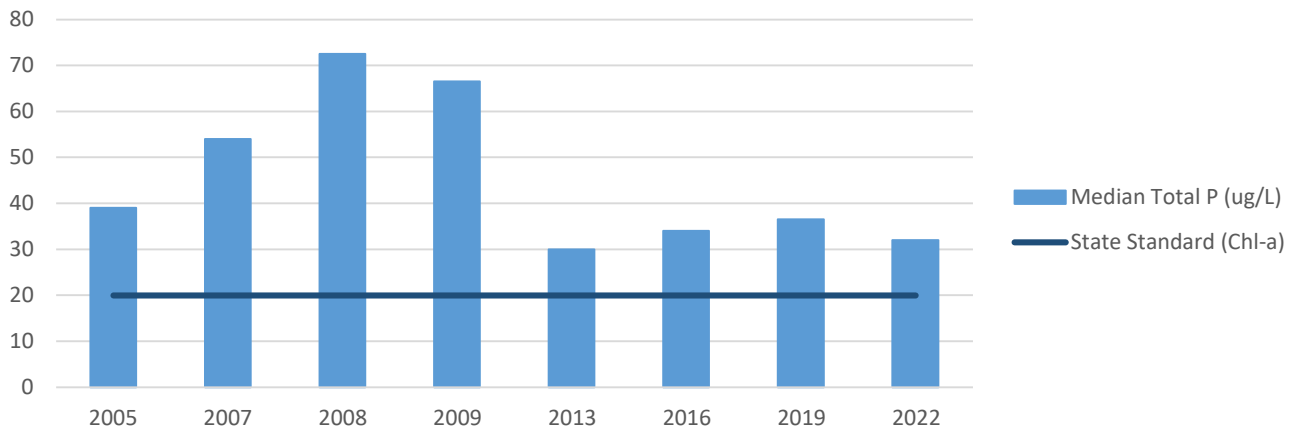
**Supported Uses:** Habitat,  
Education,  
Aesthetics

## WATER QUALITY IMPROVEMENTS [2020-PRESENT]

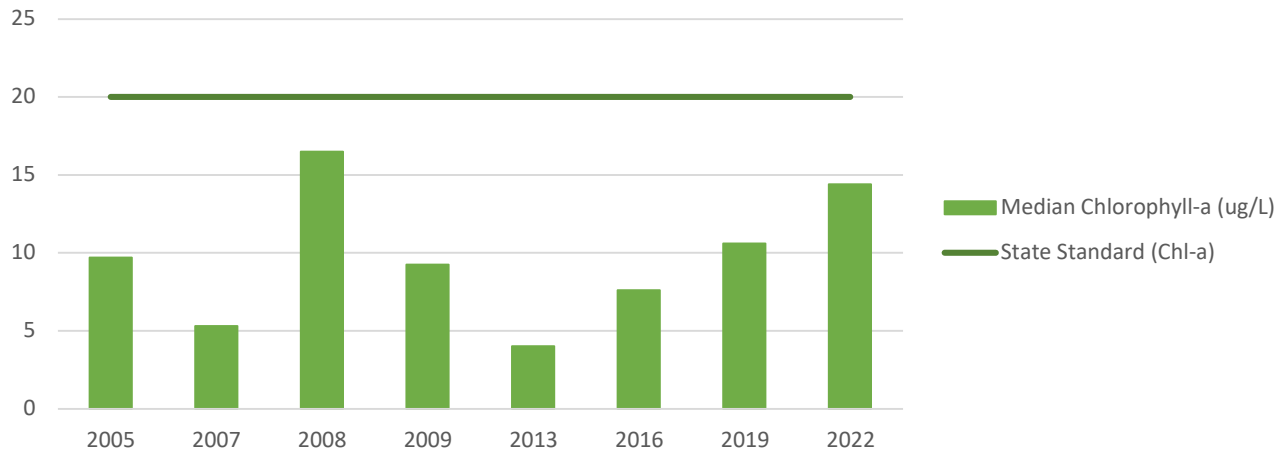
Known to support small minnow species, frogs, insects, and native aquatic plants.  
The surrounding area is accessible for birdwatching and trail walking,

Not currently maintained for recreational fishing.

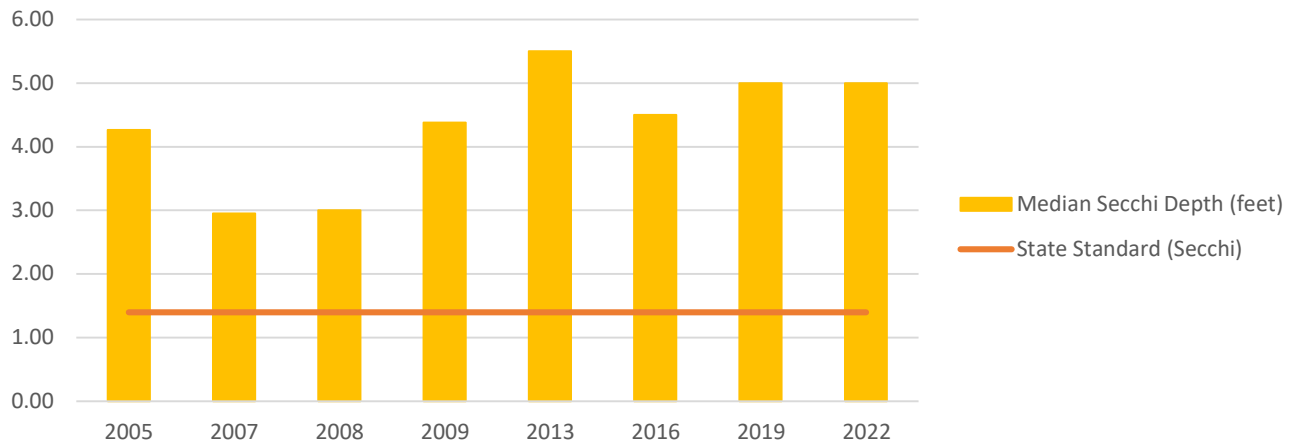
Shanahan Lake  
Median Total Phosphorous (ug/L)



Shanahan Lake  
Median Chlorophyll-a (ug/L)



Shanahan Lake  
Median Secchi Depth (feet)

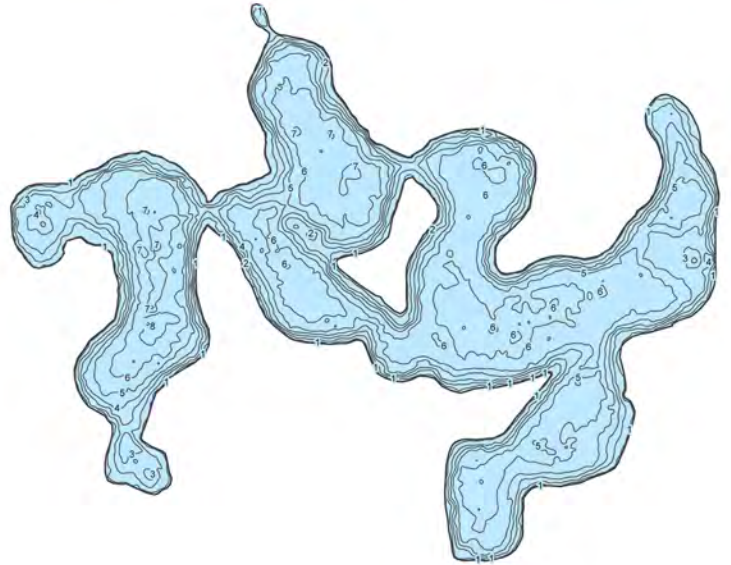






# Thomas Lake

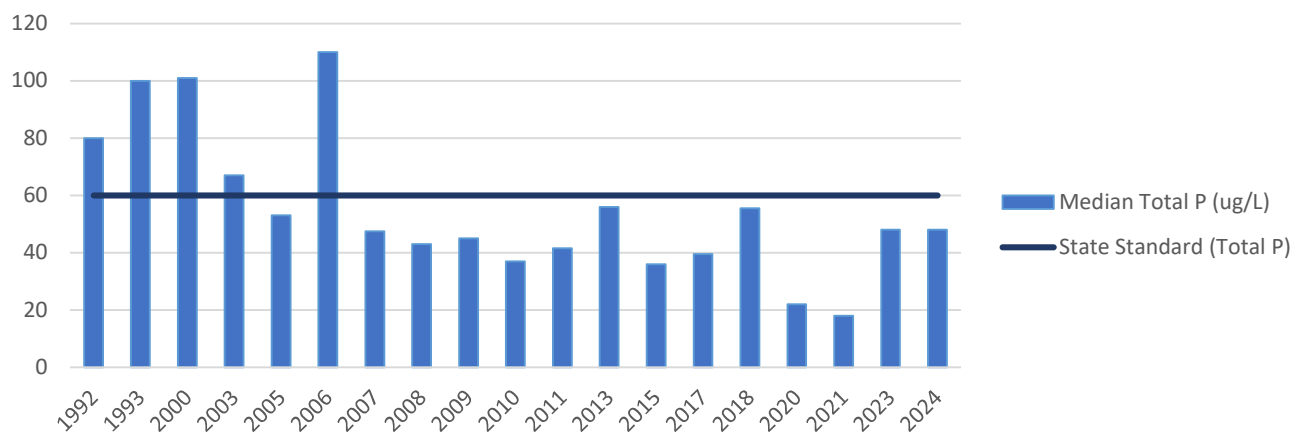
<b>City ID:</b>	BP-7
<b>Waterbody Type:</b>	Shallow Lake
<b>Surface Area:</b>	43.80 acres
<b>Average Depth:</b>	4.20 feet
<b>Maximum Depth:</b>	10.80 feet
<b>Public Access:</b>	Yes
<b>Supported Uses:</b>	Fishing, Canoeing / Kayaking



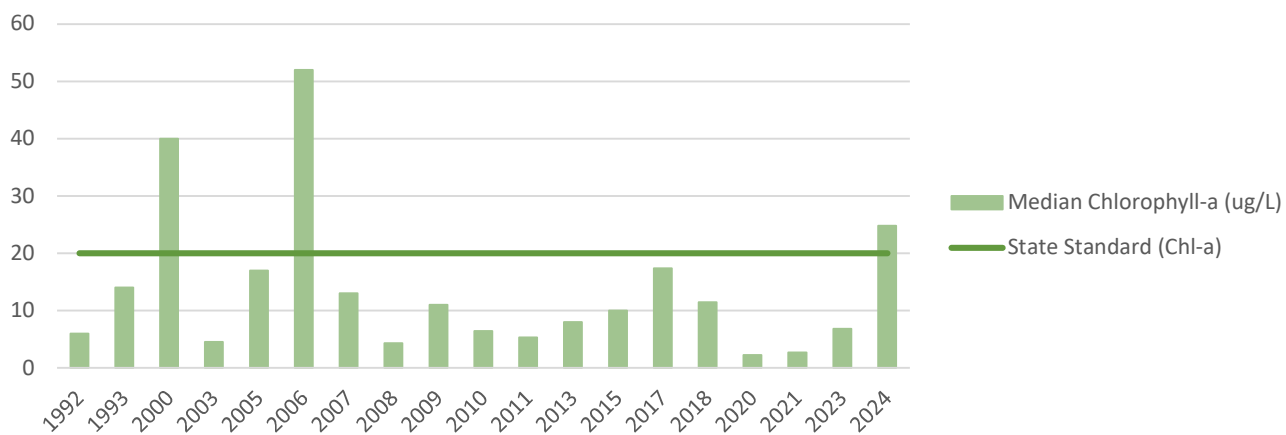
## WATER QUALITY IMPROVEMENTS [2019-PRESENT]

As Needed	●	Aerated in winter as needed to prevent fish kills Lake plants harvested in summer months to reduce biomass
2019	●	Alum application to reduce in-lake nutrient load
2022	●	Fish population survey completed to assess overall health of the lake's fishery
2023	●	Stocked - 1,300 Green Sunfish (yearlings)
2024	●	Stocked - 465 Bluegill Sunfish (4-6")

Thomas Lake  
Median Total P (ug/L)



Thomas Lake  
Median Chlorophyll-a (ug/L)



Thomas Lake  
Median Secchi Depth (feet)

