



LITTLE LAKE (Midland) CONDITIONS UPDATE

Sample Date: May 4, 2022
Next Sample: May 17, 2022
(weather permitting)

Temperature at Surface

10.6°C



Temperatures are warming up with the onset of warmer air temperatures.

Water Clarity

3.4 m



Lake Depth

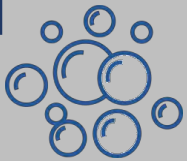
3.9 m

Water clarity is good, but the lakebed is not visible.



View from Little Lake boat launch

Bottom Water Dissolved Oxygen



11.6 mg/L

This is plenty for cold and warm water fish species.

Little Lake Outflow Level

41 cm



Readings taken at the McMurty Dr outflow structure indicate that levels are slightly higher than the same time last year.



Little Lake outflow on McMurty Dr.



General Observations

- Yellow/green water colour
- High wind gusts
- Plant material floating on surface
- Foam on water surface

Invasive Species

Invasive Species found on Little Lake

- **Glossy Buckthorn & Japanese Beetles**
- **Glossy Buckthorn** is a shrub which can crowd out native species in large numbers. Their fruits do not provide adequate nutrition for wildlife compared to native shrub species which decreases available food sources for wildlife.
- **Japanese Beetles** are an invasive insect which feed on a large variety of plants. They have few natural controls outside of their native range giving them a competitive advantage which allows them to decimate large crops and gardens.



Mallard ducks enjoying the sunshine



Measuring water level at outlet



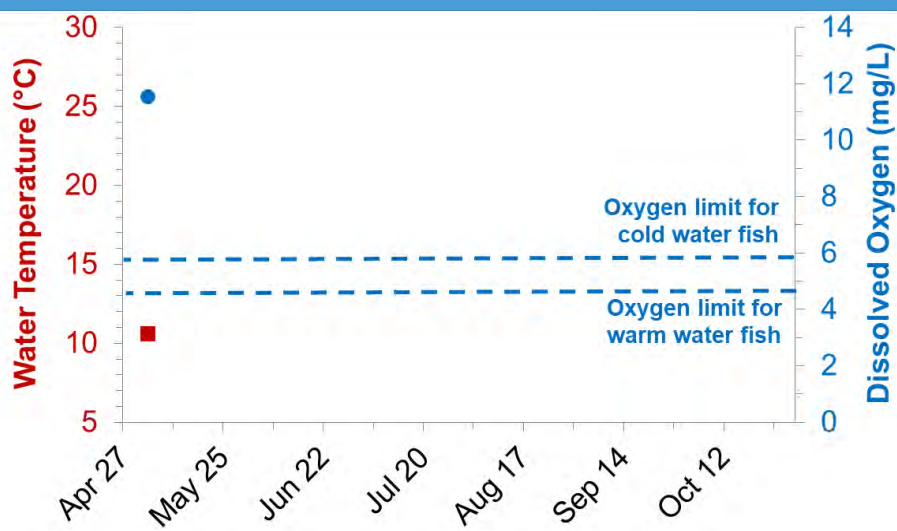
Glossy Buckthorn



Japanese Beetle

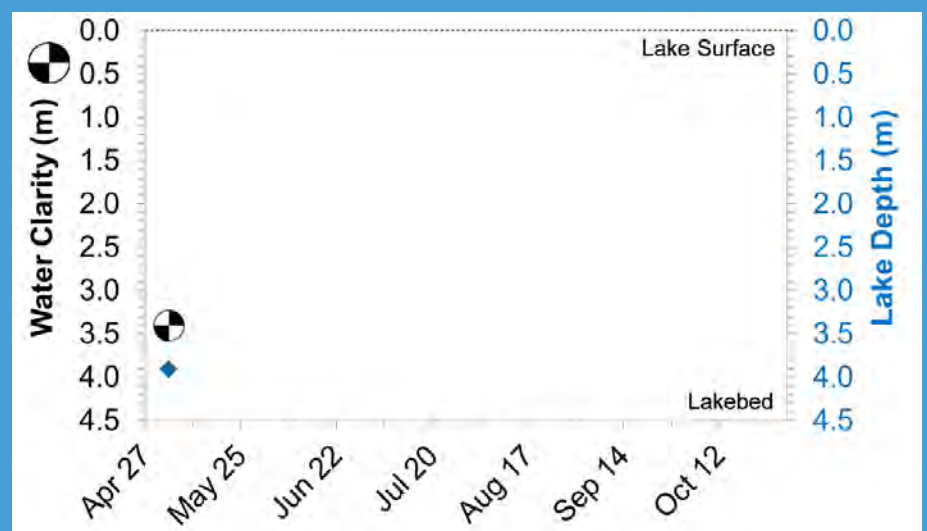
LITTLE LAKE SEASONAL WATER QUALITY TRENDS

Surface Temperature & Bottom Water Dissolved Oxygen



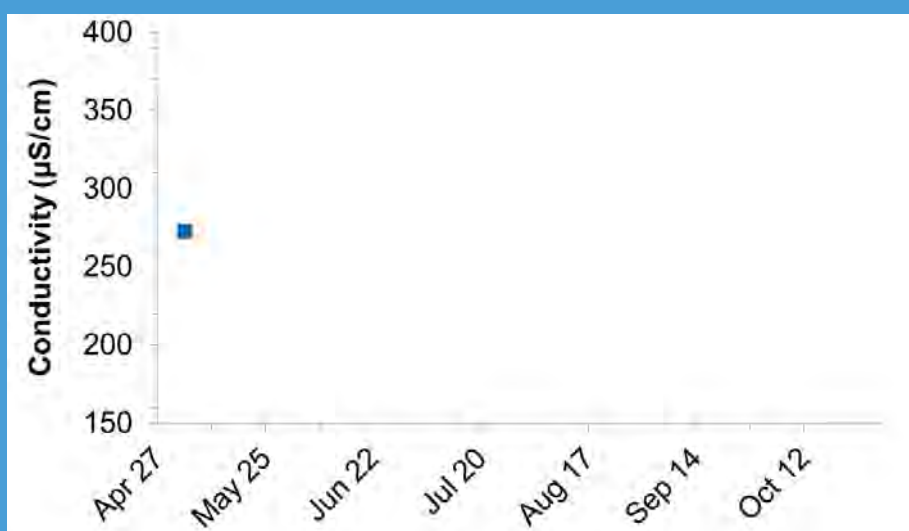
Oxygen levels are above the Provincial Water Quality Objectives for cold and warm water fish.

Water Clarity & Lake Depth



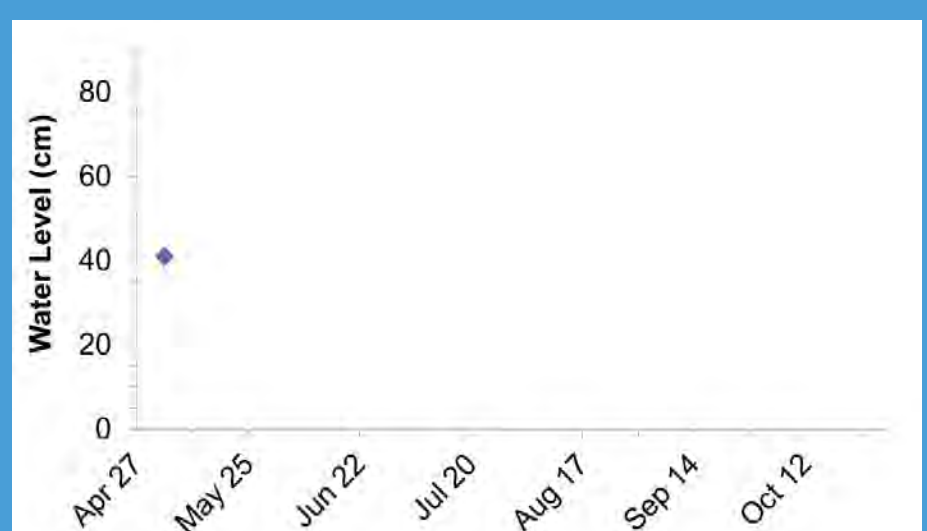
Water clarity is considered good if the lakebed is visible. The lakebed was not visible on the first sample day of 2022, but was visible in May of 2021.

Surface Water Conductivity



Conductivity indicates the amount of dissolved material in the water. Value are higher than in May of last year.

Lake Water Levels at McMurty Dr. Outflow



Little Lake water levels are closely linked to recent rainfall. Water levels are not managed, however the Town maintains the outflow structure.



LITTLE LAKE (Midland) CONDITIONS UPDATE

Sample Date: May 17, 2022
Next Sample: May 31, 2022
(weather permitting)

Temperature at Surface

18.5°C



Temperatures are warming up with the onset of warmer air temperatures.

Water Clarity

3.1 m



Lake Depth

3.7 m

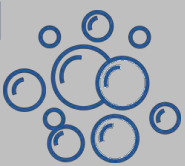
Water clarity is good, but the lakebed is not visible.



View from Little Lake boat launch

Bottom Water Dissolved Oxygen

9.5 mg/L



This is plenty for cold and warm water fish species.

Little Lake Outflow Level

37.5 cm



Readings taken at the McMurty Dr outflow structure indicate that levels are slightly higher than the same time last year.



Little Lake outflow on McMurty Dr.



General Observations

- Yellow/brown water colour
- High strong winds with big waves
- Pollen on surface near shoreline
- Foam and plant material on water surface

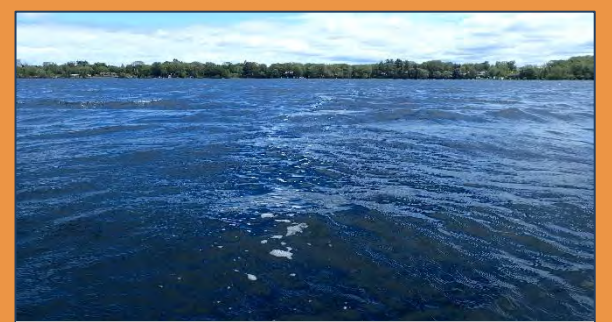
Invasive Species

Invasive Species found in or around Little Lake:

- **Purple Loosestrife** (*Lythrum salicaria*) is a wetland invasive flowering plant which can form dense monocultures and out grow native vegetation.
- **Eurasian Water-milfoil** (*Myriophyllum spicatum*) is an aquatic invasive plant that forms thick mats of underwater vegetation which prevents native plant growth and can significantly hinder the recreational use of the water way by entangling boat propellers and hindering activities such as swimming and fishing.



Pollen on surface near shoreline



Foam on surface of the water



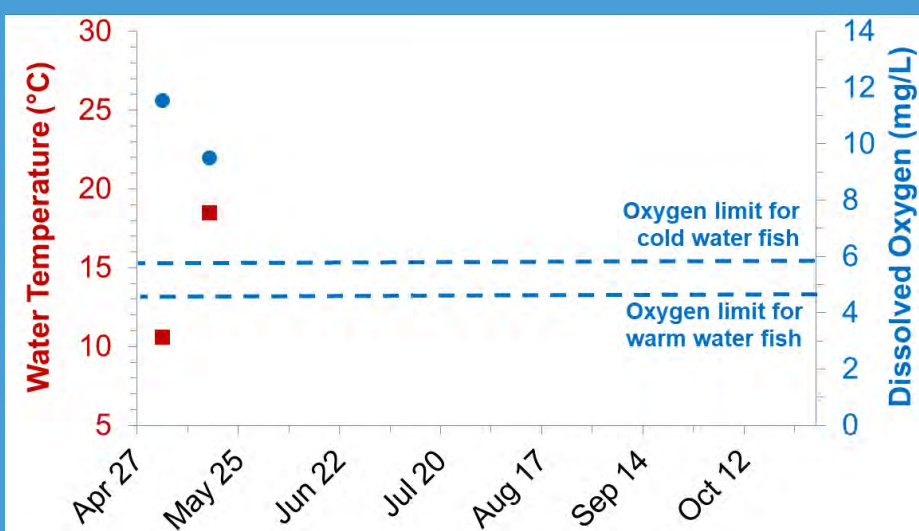
Purple Loosestrife



Eurasian Water-milfoil

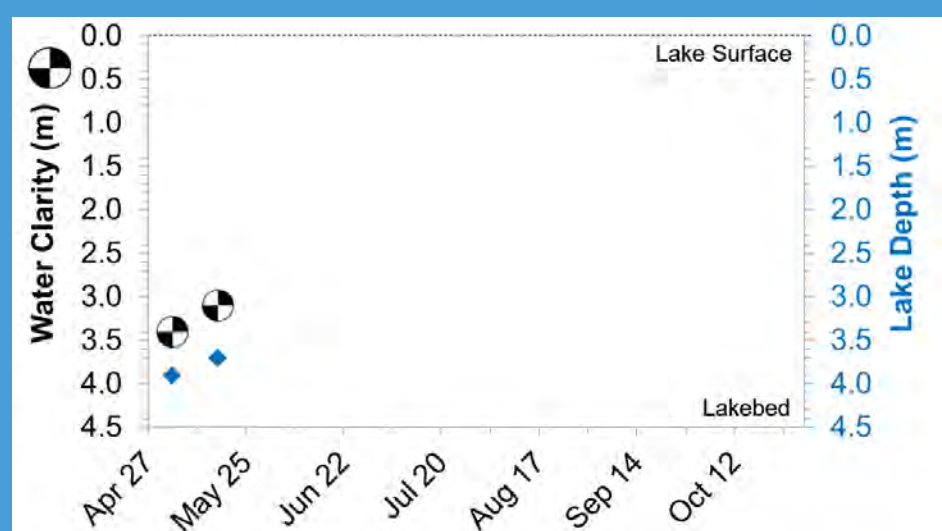
LITTLE LAKE SEASONAL WATER QUALITY TRENDS

Surface Temperature & Bottom Water Dissolved Oxygen



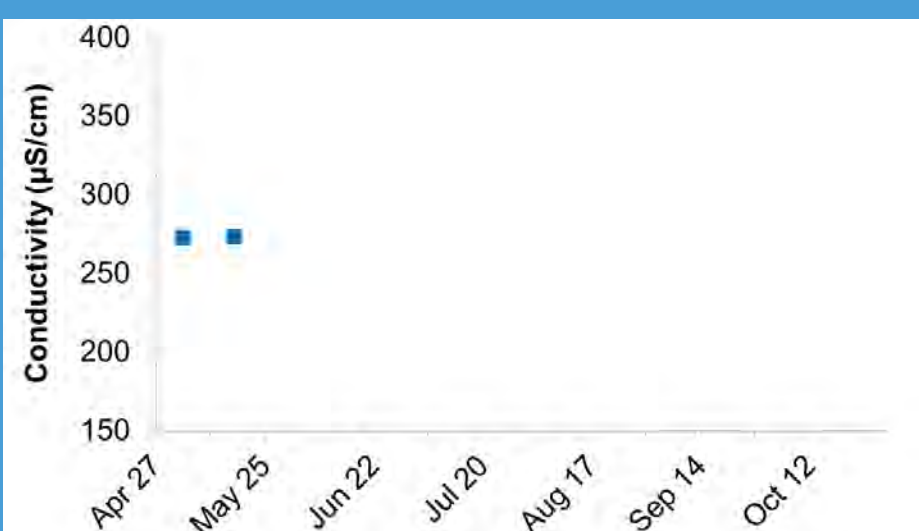
Oxygen levels have remained above the Provincial Water Quality Objectives for cold and warm water fish

Water Clarity & Lake Depth



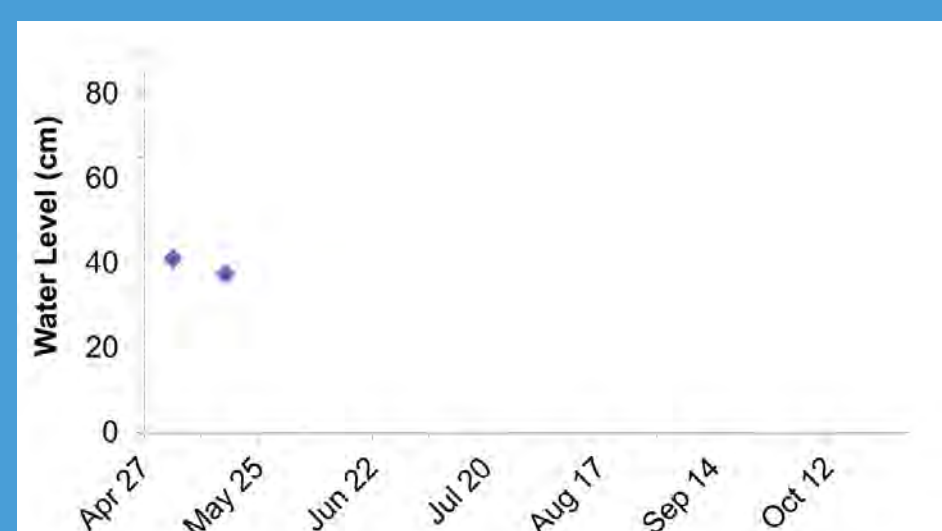
Water clarity is considered excellent if the lakebed is visible. So far this season the lake bed has not been visible.

Surface Water Conductivity



Conductivity indicates the amount of dissolved material in the water. Values are lower than other inland lakes in the area like Orr Lake.

Lake Water Levels at McMurty Dr. Outflow



Little Lake water levels are closely linked to recent rainfall. Water levels are not managed, however the Town maintains the outflow structure.



LITTLE LAKE (Midland) CONDITIONS UPDATE

Sample Date: May 31, 2022
Next Sample: June 14, 2022
(weather permitting)

Temperature at Surface

23.5°C



Temperatures are warming up with the onset of warmer air temperatures.

Water Clarity

4.1 m



Lake Depth

4.1 m

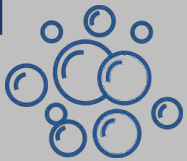
Water clarity is good, the lakebed is visible.



View from Little Lake boat launch

Bottom Water Dissolved Oxygen

13.5 mg/L



This is plenty for cold and warm water fish species.

Little Lake Outflow Level

32 cm



Readings taken at the McMurty Dr outflow structure indicate that levels are slightly higher than the same time last year.



Little Lake outflow on McMurty Dr.



General Observations

- Bright green/brown water colour
- Very hot with light offshore wind
- Some plant material and foam on shoreline
- Plant growth noticed on lakebed

Invasive Species

Invasive Species found in or around Little Lake:

- Zebra Mussels (ZMs)** (*Dreissena polymorpha*) are invasive mussels that are widespread in Severn Sound, Bass Lake and Lake Couchiching. Small populations have also been observed in Orr and Little Lake
- ZMs are efficient filter feeders, and can have negative impacts on the ecology of a lake



Pollen on surface near shoreline



Foam on Shoreline



Recreational users are reminded to **Clean, Drain and Dry** ALL equipment before & after entering the lake!



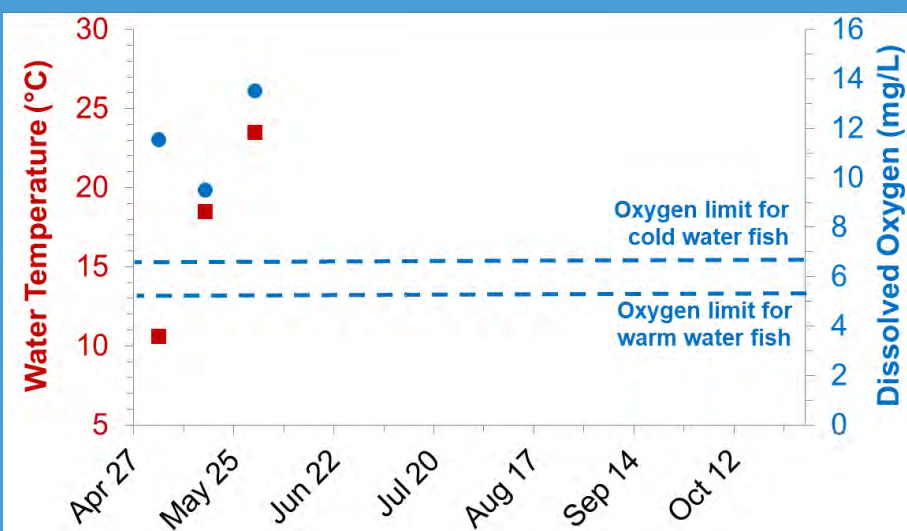
Zebra mussel attached to *Chara*



Mussels on Eurasian Milfoil

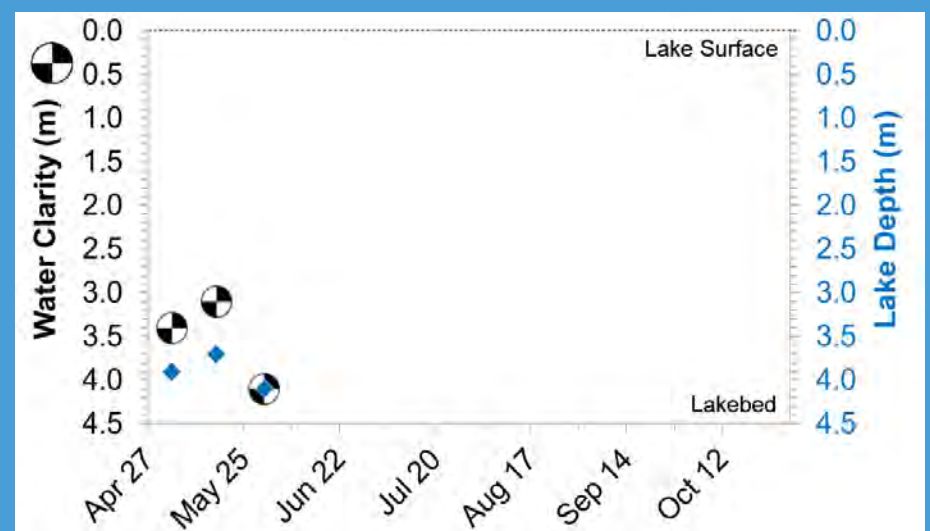
LITTLE LAKE SEASONAL WATER QUALITY TRENDS

Surface Temperature & Bottom Water Dissolved Oxygen



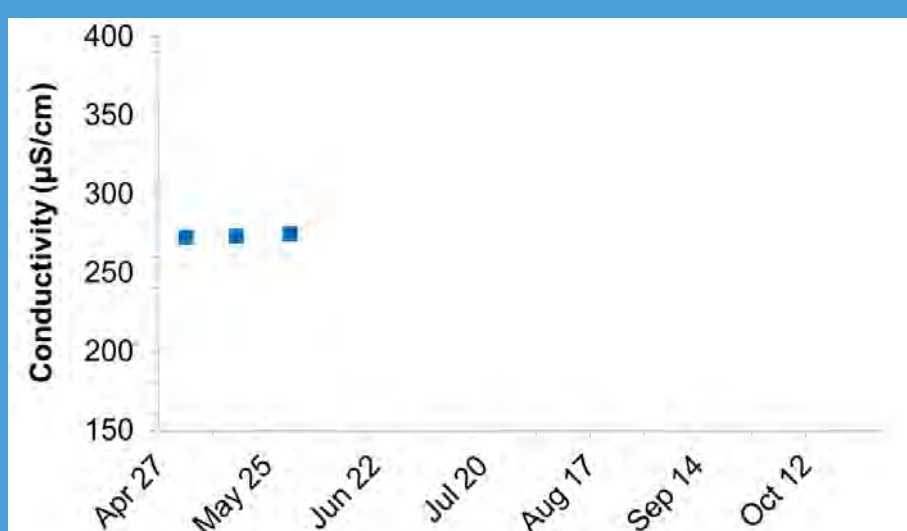
Oxygen levels have remained above the Provincial Water Quality Objectives for cold and warm water fish.

Water Clarity & Lake Depth



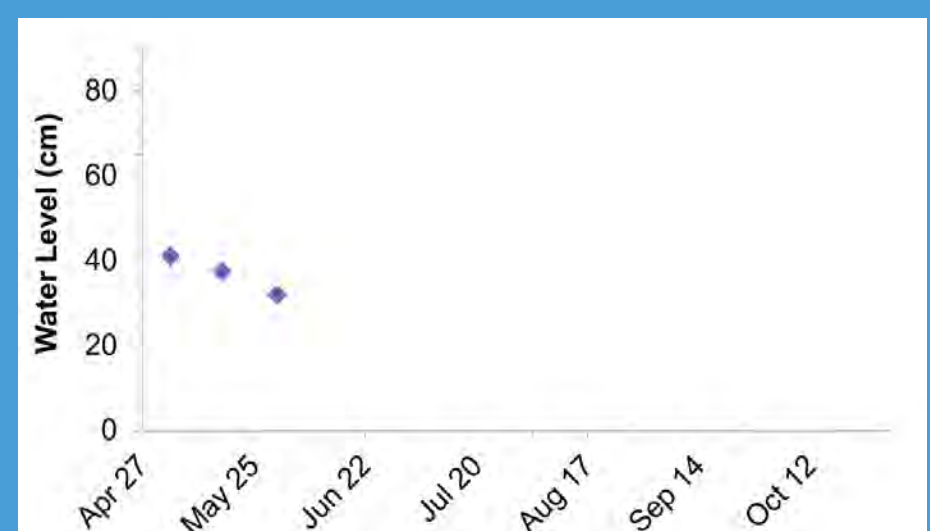
Water clarity is considered good if the lakebed is visible. The lakebed was visible on May 31st. Sediment and algae can contribute to lower clarity.

Surface Water Conductivity



Conductivity indicates the amount of dissolved material in the water. Values are lower than other inland lakes in the area like Orr Lake.

Lake Water Levels at McMurty Dr. Outflow



Little Lake water levels are closely linked to recent rainfall. Water levels are not managed, however the Town maintains the outflow structure.



LITTLE LAKE (Midland) CONDITIONS UPDATE

Sample Date: June 14, 2022
Next Sample: June 28, 2022
(weather permitting)

Temperature at Surface

22.6°C



Temperatures are increasing with rise in daytime air temperatures.

Water Clarity 3.8 m



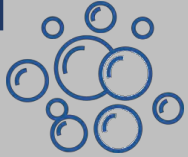
Lake Depth 4.0 m

Water clarity is good when lakebed is visible. Plant growth prevented the lakebed from being visible.



View from Little Lake boat launch

Bottom Water Dissolved Oxygen



11.3 mg/L

This is plenty for cold and warm water fish species.

Little Lake Outflow Level 36 cm



Readings taken at the McMurty Dr outflow structure indicate that levels are slightly higher than the same time last year.



Little Lake outflow on McMurty Dr.



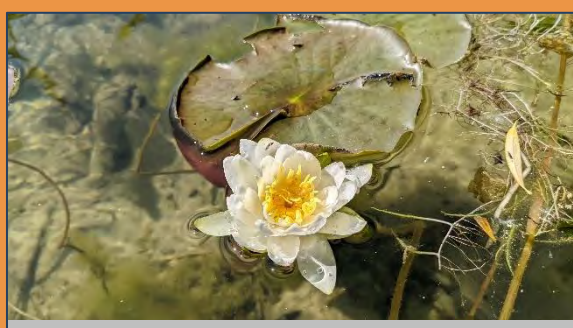
General Observations

- Yellow/brown water colour
- Plant material on water surface
- Some plant material and pollen on shoreline
- Algae on rocks near shore – not harmful

Invasive Species

Invasive Species that have not been detected in Little Lake but that you should be on the look out for:

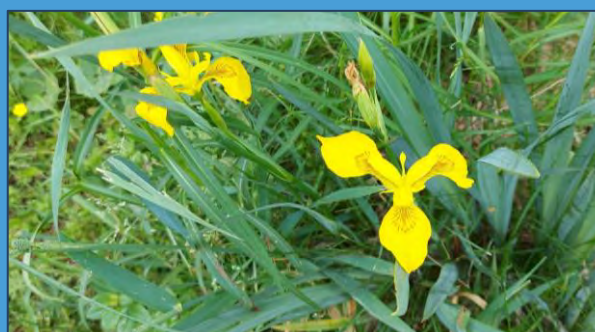
- **Yellow Iris** is a troublesome invasive species that outgrows native aquatic plants and harms biodiversity within aquatic ecosystems. It was originally introduced as an ornamental plant.
- **Chinese Mystery Snails** can be identified by the “trapdoor” on their shells which no native species have. They can resist predation and alter food webs by significantly reducing native snail populations.



Water Lily near shore



Aquatic plant growth near shore



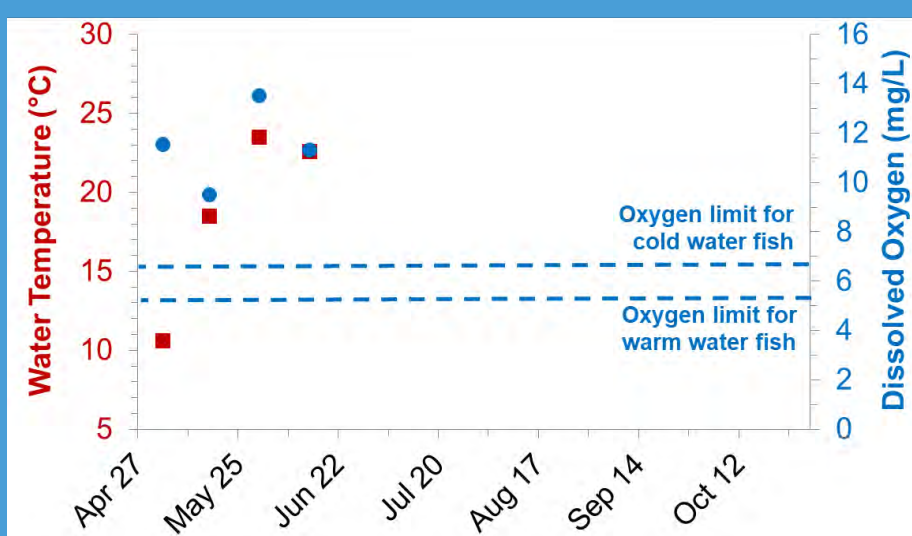
Yellow Iris



Chinese Mystery Snail

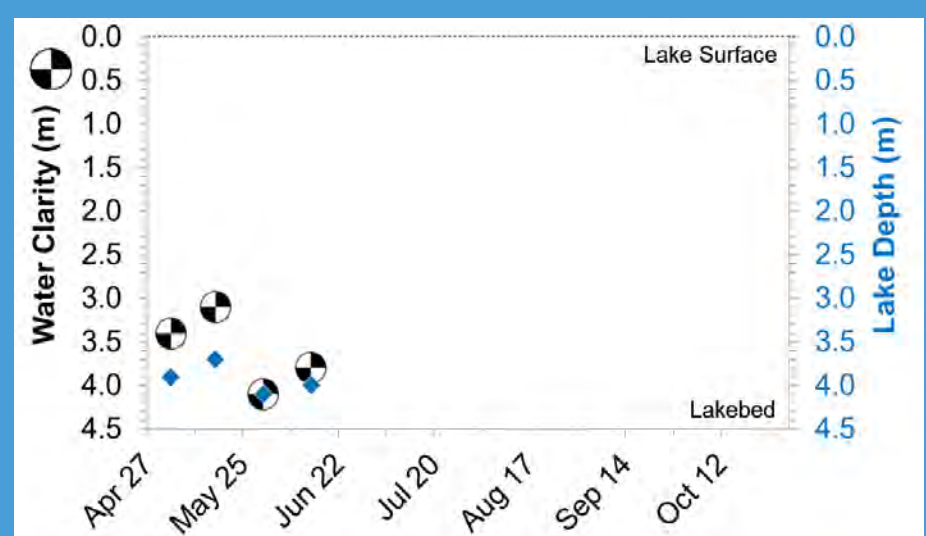
LITTLE LAKE SEASONAL WATER QUALITY TRENDS

Surface Temperature & Bottom Water Dissolved Oxygen



Oxygen levels have remained above the Provincial Water Quality Objectives for cold and warm water fish, even as temperatures are warming.

Water Clarity & Lake Depth



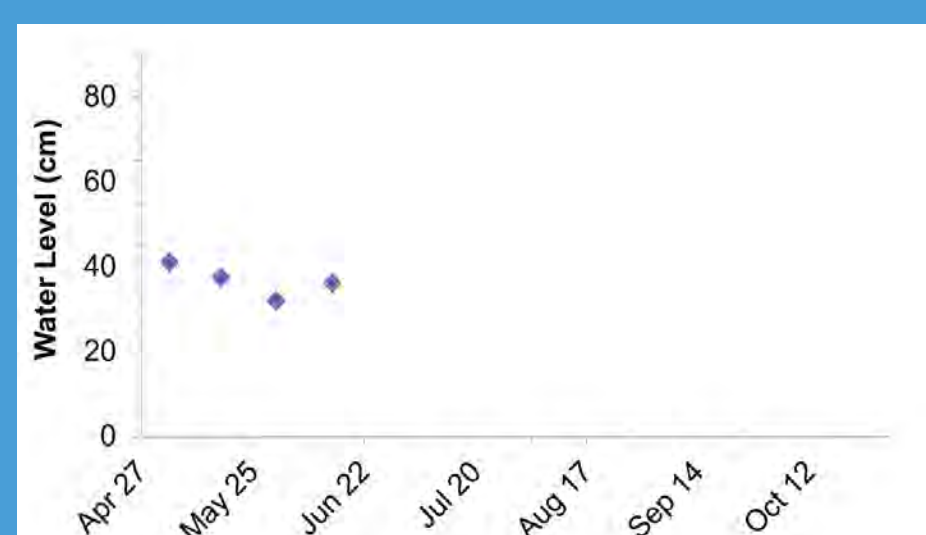
Water clarity is considered excellent if the lakebed is visible. Plant growth impeding lake bed visibility. The lakebed was last visible on May 31st.

Surface Water Conductivity



Conductivity indicates the amount of dissolved material in the water. Value have been consistent over the season so far.

Lake Water Levels at McMurty Dr. Outflow



Little Lake water levels are closely linked to recent rainfall. Water levels are not managed, however the Town maintains the outflow structure.



LITTLE LAKE (Midland) CONDITIONS UPDATE

Sample Date: June 28, 2022
Next Sample: July 12, 2022
(weather permitting)

Temperature at Surface

22.5°C



Temperatures have leveled off in response to fluctuations in air temperatures.

Water Clarity 3.5 m



Lake Depth 3.9 m

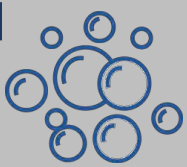
Water clarity is good when lakebed is visible. Plant growth prevented the lakebed from being visible.



View from Little Lake boat launch

Bottom Water Dissolved Oxygen

9.6 mg/L



This is plenty for cold and warm water fish species.

Little Lake Outflow Level 24 cm



Readings taken at the McMurty Dr outflow structure indicate that levels have dropped from June 14th.



Little Lake outflow on McMurty Dr.



General Observations

- Yellow/green water colour
- Plant material and foam on water surface
- Lots of plant material and foam on shoreline
- No algae or pollen on shore

Invasive Species

Invasive Species found in or around Little Lake:

- **Phragmites/Common Reed** (*Phragmites australis* ssp. *australis*) is a tall perennial grass that is native to Eurasia. Phragmites is an aggressive semi-aquatic plant that threatens native plants and wildlife, human safety, agriculture and recreational activities. It invades a variety of habitats including lakes, shorelines, wetlands, beaches, ditches, and roadsides and succeeds in disturbed habitats. The seed head and stems will persist through the fall, winter and into early spring.



Snapping turtle at dock



Plant material and foam on shoreline



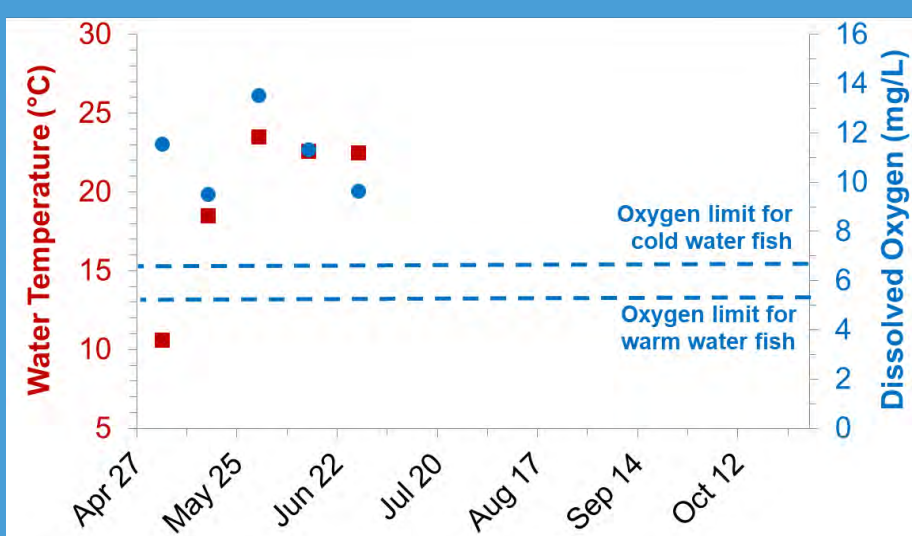
Phragmites - aquatic



Phragmites - terrestrial

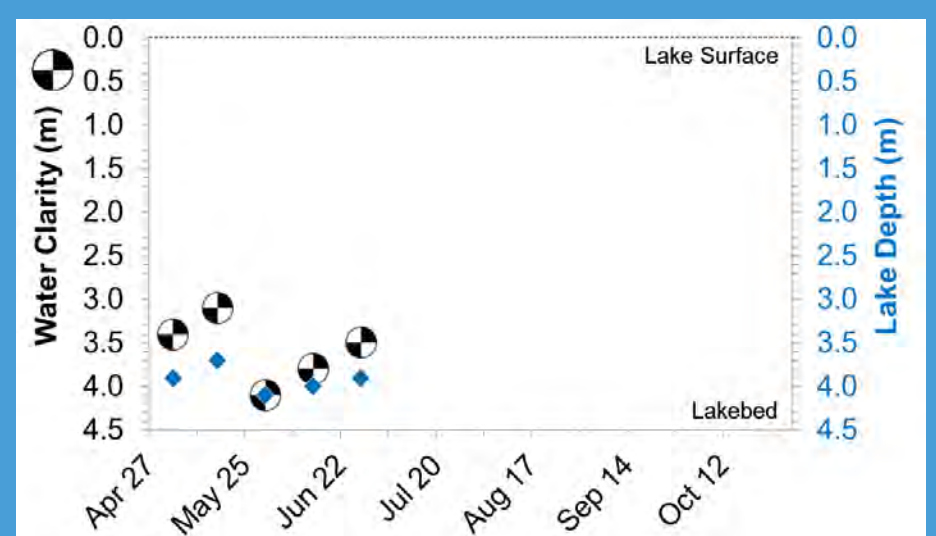
LITTLE LAKE SEASONAL WATER QUALITY TRENDS

Surface Temperature & Bottom Water Dissolved Oxygen



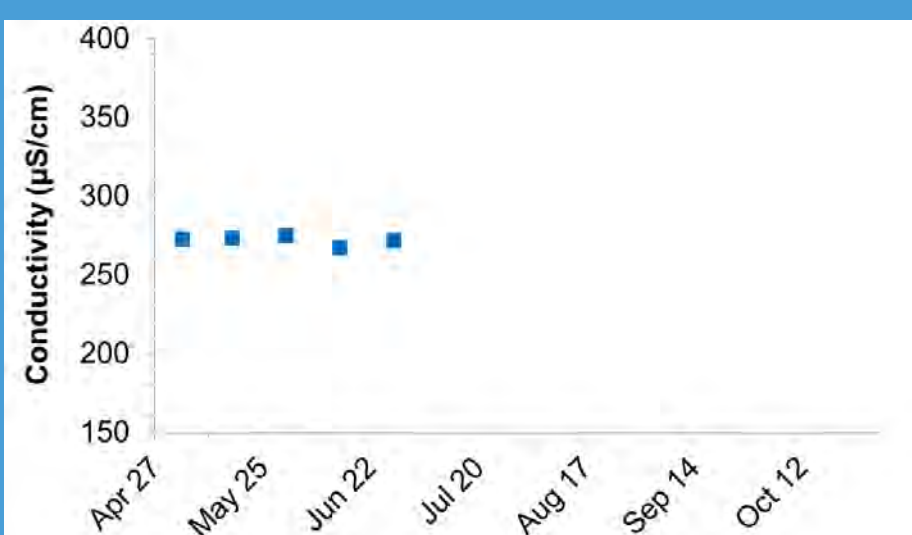
Oxygen levels have remained above the Provincial Water Quality Objectives for cold and warm water fish.

Water Clarity & Lake Depth



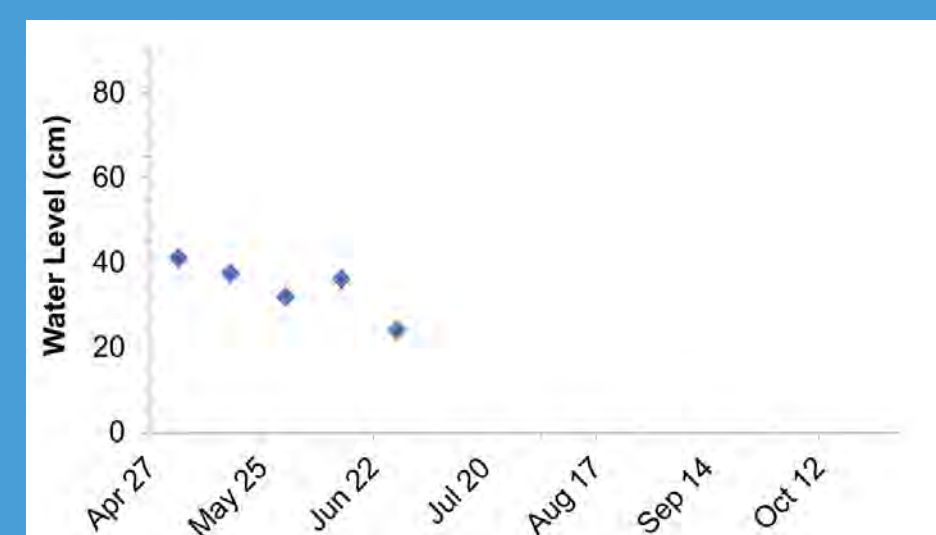
Water clarity is considered excellent if the lakebed is visible. Plant growth impeded lake bed visibility. The lakebed was last visible on May 31st.

Surface Water Conductivity



Conductivity indicates the amount of dissolved material in the water. Value have been consistent over the season so far.

Lake Water Levels at McMurty Dr. Outflow



Little Lake water levels are closely linked to recent rainfall. Water levels are not managed, however the Town maintains the outflow structure.



LITTLE LAKE (Midland) CONDITIONS UPDATE

Sample Date: July 12, 2022
Next Sample: July 26, 2022
(weather permitting)

Temperature at Surface

23.1°C



Temperatures have increased slightly since the last update.

Water Clarity 3.0 m



Lake Depth 3.7 m

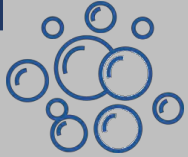
Water clarity is good when lakebed is visible. Plant growth prevented the lakebed from being visible.



View from Little Lake boat launch

Bottom Water Dissolved Oxygen

9.89 mg/L



This is plenty for cold and warm water fish species.

Little Lake Outflow Level 24 cm



Readings taken at the McMurty Dr outflow structure indicate that levels have dropped since June 14th.



Little Lake outflow on McMurty Dr.



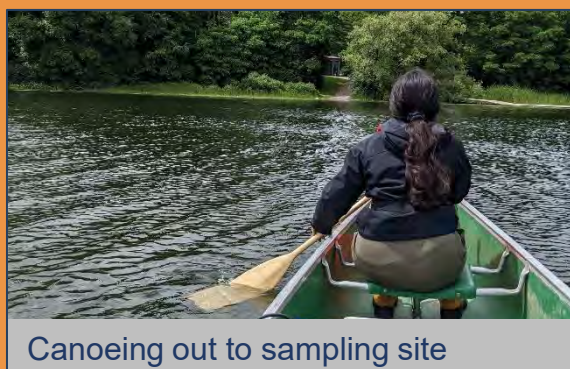
General Observations

- Green/yellow water colour
- Plant material and foam on water surface
- Langmuir streaks on surface caused by high winds
- Some foam and plants on shoreline

Invasive Species

Invasive Species found in or around Little Lake:

- **Purple Loosestrife** (*Lythrum salicaria*) is a wetland invasive flowering plant which can form dense monocultures and out grow native vegetation.
- **Eurasian Water-milfoil** (*Myriophyllum spicatum*) is an aquatic invasive plant that forms thick mats of underwater vegetation which prevents native plant growth and can significantly hinder the recreational use of the water way by entangling boat propellers and hindering activities such as swimming and fishing.



Canoeing out to sampling site



Plant material and foam on shoreline



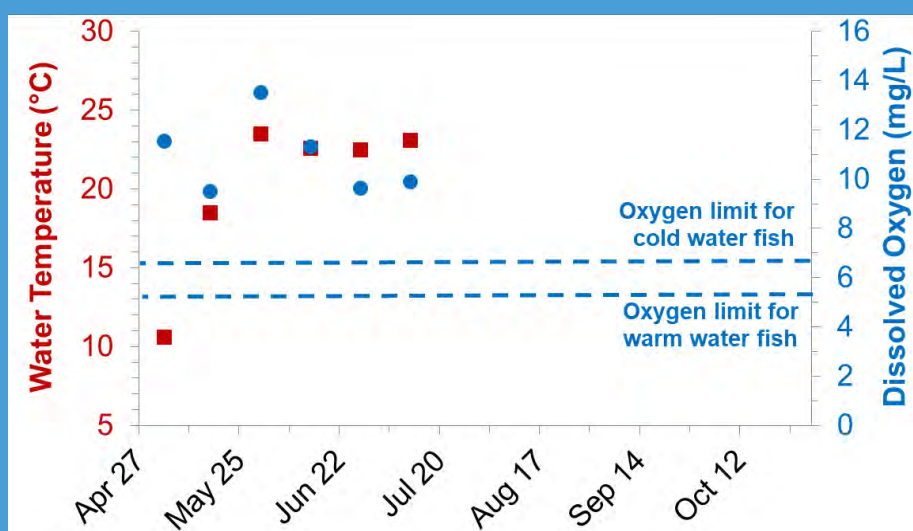
Purple Loosestrife



Eurasian Water-milfoil

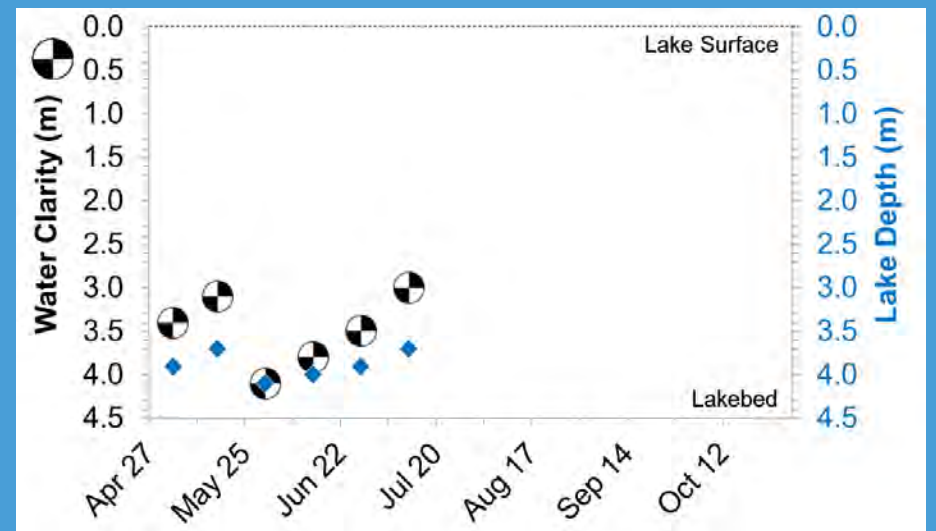
LITTLE LAKE SEASONAL WATER QUALITY TRENDS

Surface Temperature & Bottom Water Dissolved Oxygen



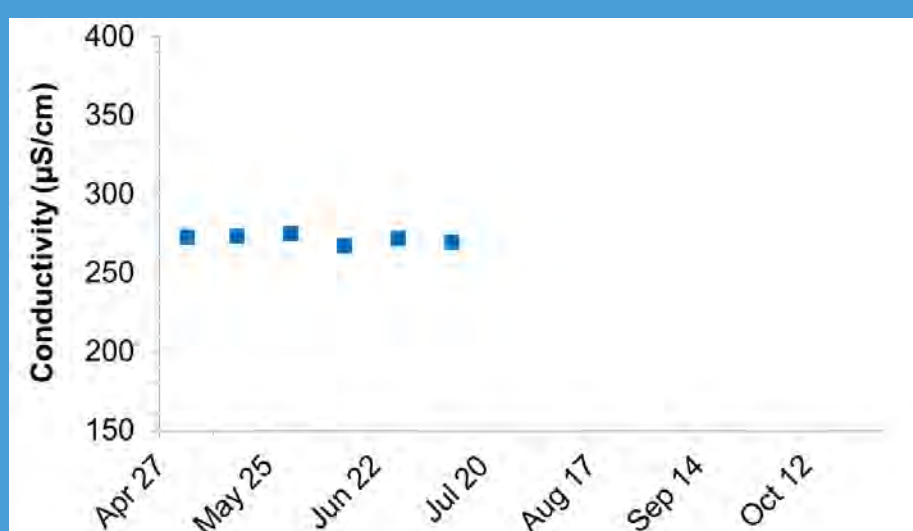
Oxygen levels have remained above the Provincial Water Quality Objectives for cold and warm water fish.

Water Clarity & Lake Depth



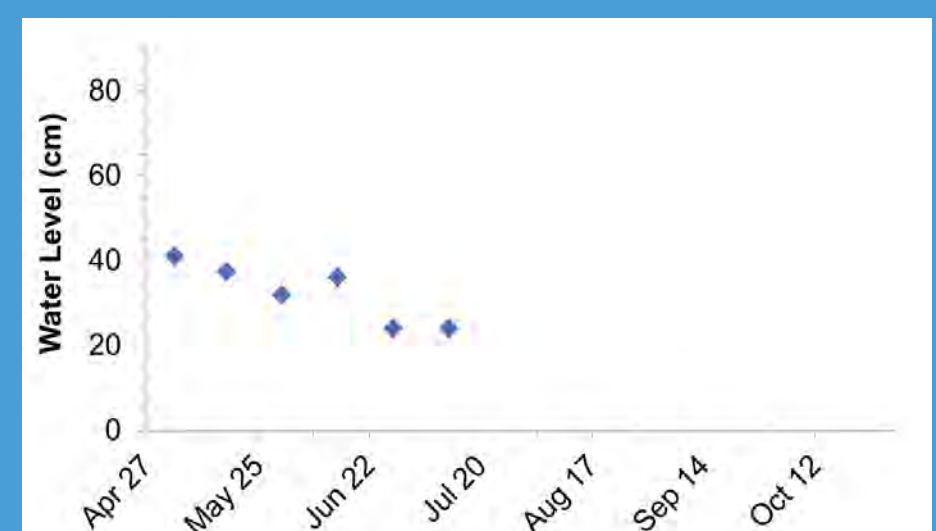
Water clarity is considered excellent if the lakebed is visible. Plant growth impeded lake bed visibility. The lakebed was last visible on May 31st.

Surface Water Conductivity



Conductivity indicates the amount of dissolved material in the water. Values have been consistent over the season so far.

Lake Water Levels at McMurty Dr. Outflow



Little Lake water levels are closely linked to recent rainfall. Water levels are not managed, however the Town maintains the outflow structure.



LITTLE LAKE (Midland) CONDITIONS UPDATE

Sample Date: July 26, 2022
Next Sample: August 9, 2022
(weather permitting)

Temperature at Surface

23.5°C



Temperatures have leveled out since the last update.

Water Clarity

2.8 m



Lake Depth

3.6 m

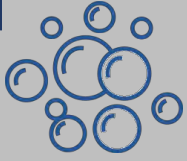
Water clarity is good when lakebed is visible. Plant growth prevented the lakebed from being visible.



View from Little Lake boat launch

Bottom Water Dissolved Oxygen

9.6 mg/L



This is plenty for cold and warm water fish species.

Little Lake Outflow Level

17.5 cm



Readings taken at the McMurdy Dr outflow structure indicate that levels have dropped since July 12th.



Little Lake outflow on McMurdy Dr.



General Observations

- Bright yellow green water colour
- Plant material and foam on water surface
- Thick duckweed mats in water downstream of outlet structure
- Some foam washed up on shoreline

Invasive Species

Invasive Species found in or around Little Lake:

- **Amur Maple** (*Acer ginnala*) is a small tree which is often used for landscaping because of its ornamental features. When Amur Maple escapes to natural areas, it can shade out desirable native species.
- **Manitoba (Boxelder) Maple** (*Acer negundo*) is native to the Canadian prairies, however, in Ontario it is considered an invasive species. Manitoba maple grows fast, is relatively short-lived and forms a dense canopy at maturity, shading out native plant species.



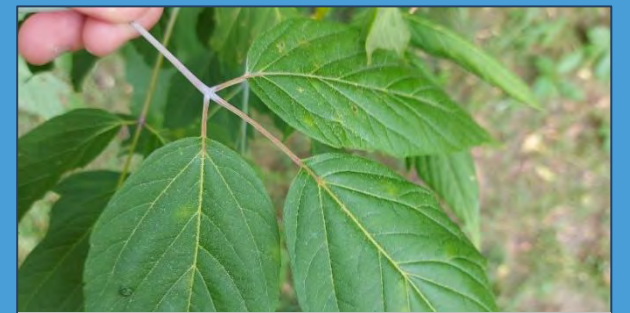
Staff sampling water quality



Freshwater mussel near shoreline



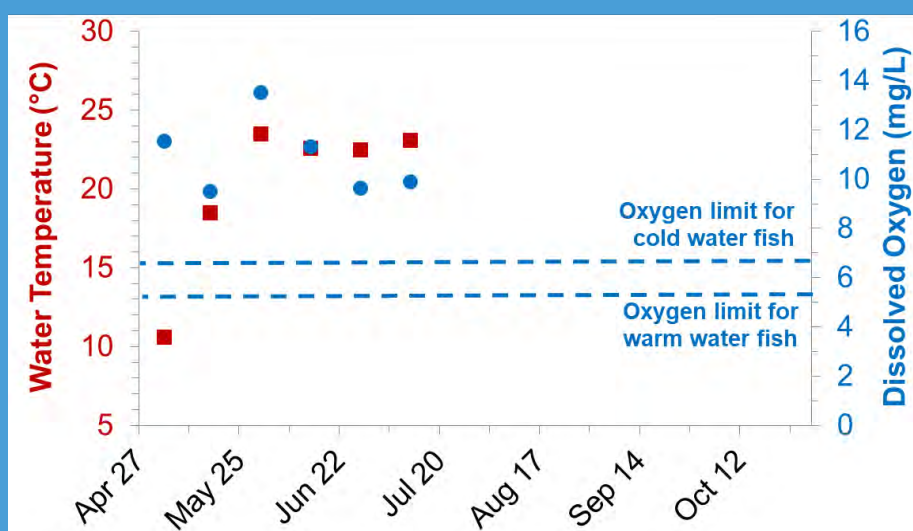
Amur Maple



Manitoba (Boxelder) Maple

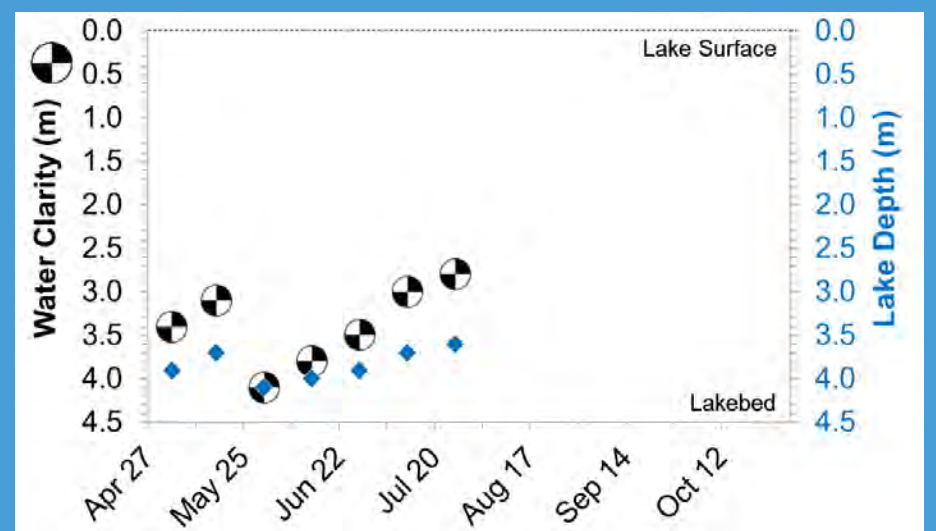
LITTLE LAKE SEASONAL WATER QUALITY TRENDS

Surface Temperature & Bottom Water Dissolved Oxygen



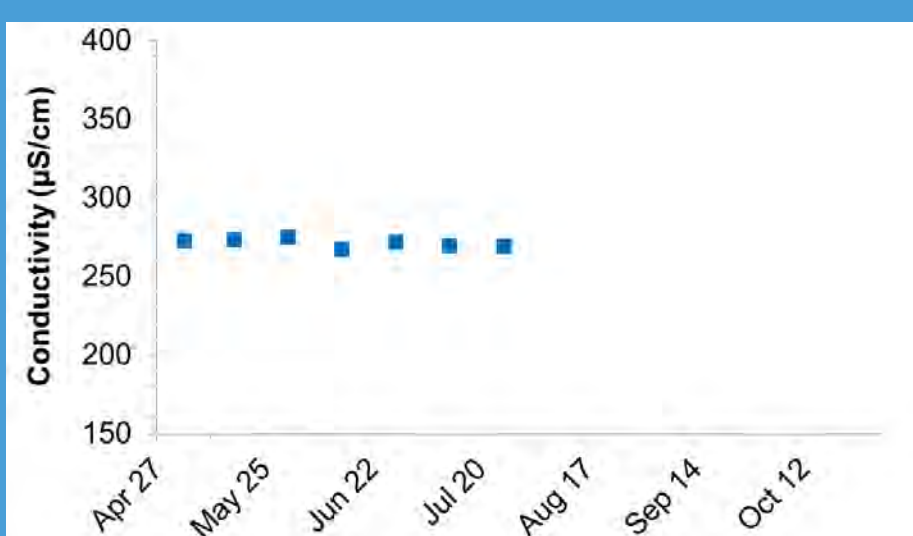
Oxygen levels have remained above the Provincial Water Quality Objectives for cold and warm water fish.

Water Clarity & Lake Depth



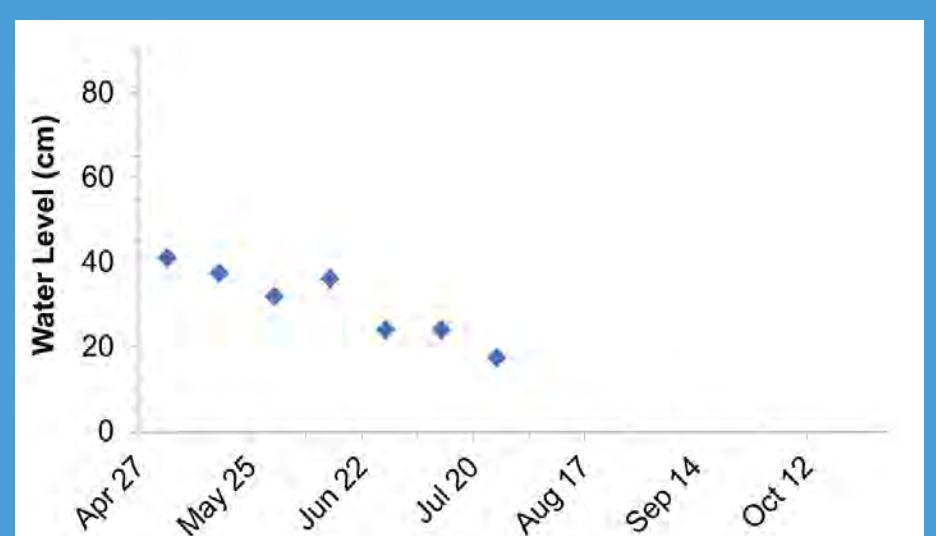
Water clarity is considered excellent if the lakebed is visible. Plant growth impeded lake bed visibility. The lakebed was last visible on May 31st.

Surface Water Conductivity



Conductivity indicates the amount of dissolved material in the water. Values have been consistent over the season so far.

Lake Water Levels at McMurdy Dr. Outflow



Little Lake water levels are closely linked to recent rainfall. Water levels are not managed, however the Town maintains the outflow structure.



LITTLE LAKE (Midland) CONDITIONS UPDATE

Sample Date: August 9, 2022
Next Sample: August 23, 2022
(weather permitting)

Temperature at Surface

24.7°C



Temperatures have increased slightly since the last update.

Water Clarity

3.4 m



Lake Depth

3.6 m

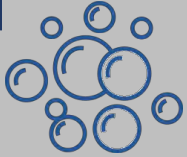
Water clarity is good when lakebed is visible. Water clarity has improved since July 26th but is still impeded by plant growth.



View from Little Lake boat launch

Bottom Water Dissolved Oxygen

8.6 mg/L



This is plenty for cold and warm water fish species.

Little Lake Outflow Level

20 cm



Readings taken at the McMurty Dr outflow structure indicate that levels have risen slightly since July 26th.



Little Lake outflow on McMurty Dr.



General Observations

- Bright green water colour
- Plant material and foam on water surface
- Filamentous algae near shore by outflow structure
- Some plant material washed up on shoreline

Invasive Species

Invasive Species found in or around Little Lake:

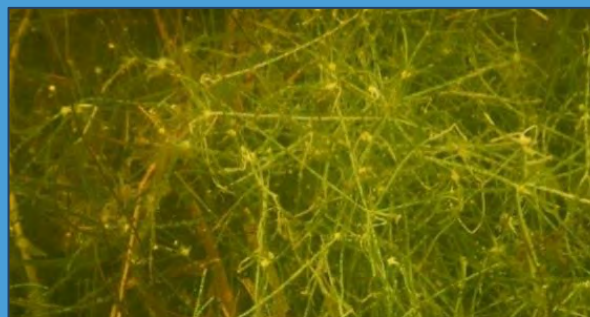
- **Starry Stonewort (SSW)** (*Nitellopsis obtusa*) is a green freshwater algae that forms dense mats under the water's surface. SSW spreads rapidly through fragments and can overtake shorelines, interfering with watercraft, swimming, and fishing.
- **Round Goby** (*Neogobium melanostomus*) is a small bottom-dwelling fish that is prevalent in the Great Lakes. They reproduce rapidly and outcompete native species of fish. **Note: Round Goby is present in Midland Harbour but not yet reported in Little Lake.**



Staff sampling zooplankton



Pickerelweed near shoreline



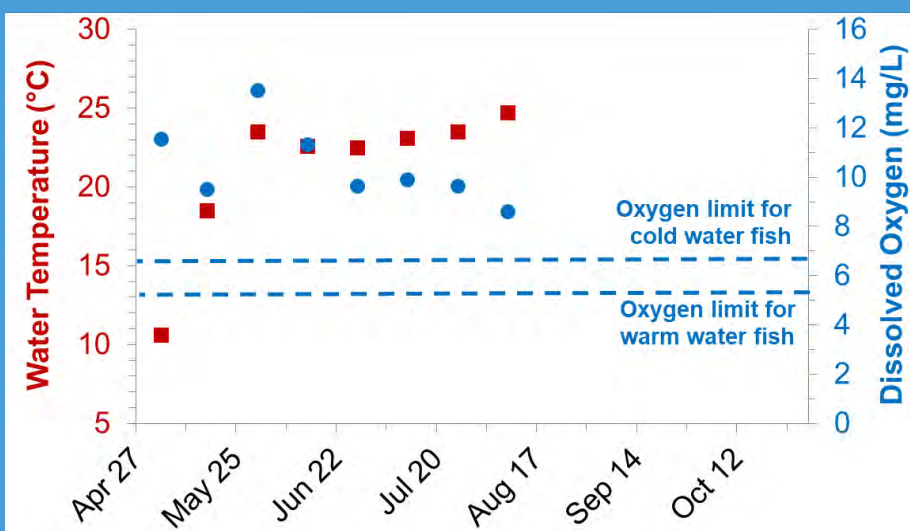
Underwater photo of SSW



Round Goby

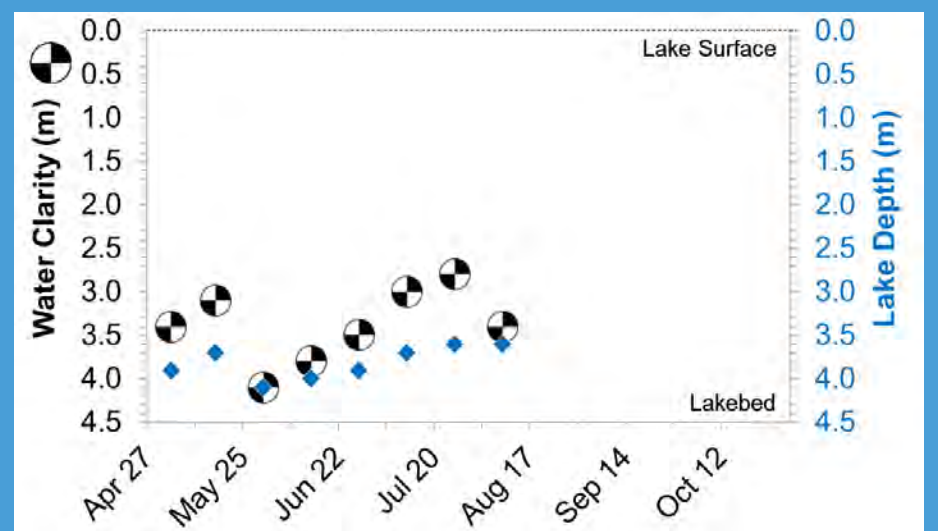
LITTLE LAKE SEASONAL WATER QUALITY TRENDS

Surface Temperature & Bottom Water Dissolved Oxygen



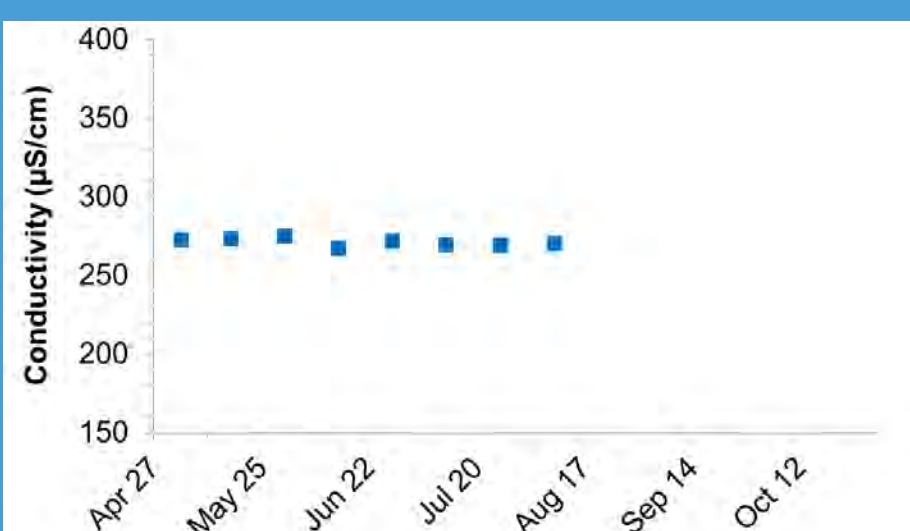
Oxygen levels have remained above the Provincial Water Quality Objectives for cold and warm water fish, despite warming water temperatures.

Water Clarity & Lake Depth



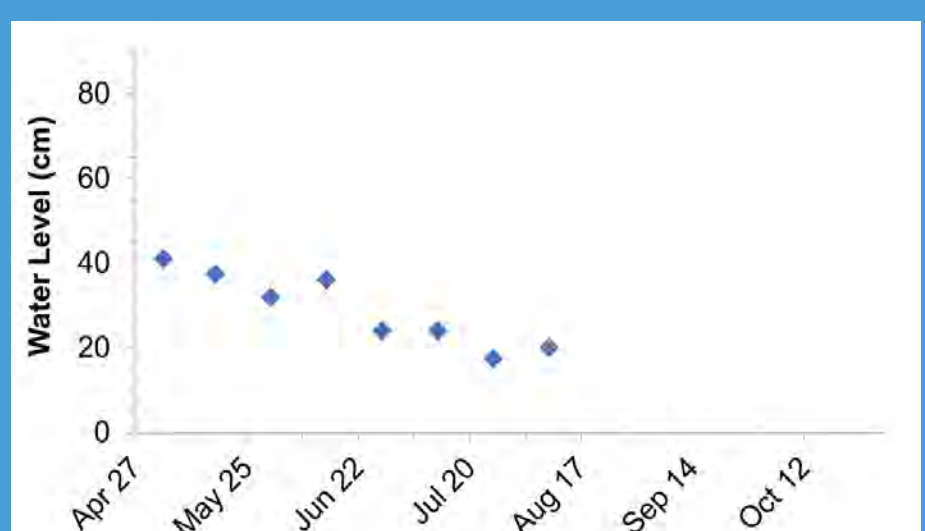
Water clarity is considered excellent if the lakebed is visible. Plant growth impeded lake bed visibility. The lakebed was last visible on May 31st.

Surface Water Conductivity



Conductivity indicates the amount of dissolved material in the water. Values have been consistent over the season so far.

Lake Water Levels at McMurty Dr. Outflow



Little Lake water levels are closely linked to recent rainfall. Water levels are not managed, however the Town maintains the outflow structure.



LITTLE LAKE (Midland) CONDITIONS UPDATE

Sample Date: August 23, 2022
Next Sample: September 6, 2022
(weather permitting)

Temperature at Surface

25.1°C



Temperatures have increased slightly since the last update.

Water Clarity 3.2 m



Lake Depth 3.6 m

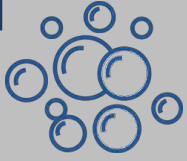
Water clarity is good when lakebed is visible. Water clarity has decreased slightly since August 9th and is mainly impeded by plant growth.



View from Little Lake boat launch

Bottom Water Dissolved Oxygen

9.82 mg/L



This is plenty for cold and warm water fish species.

Little Lake Outflow Level 15 cm



Readings taken at the McMurty Dr outflow structure indicate that levels have decreased since August 9th.



Little Lake outflow on McMurty Dr.

General Observations

- Bright yellow green water colour
- Some foam on water surface
- Beach has been posted as closed by the Town
- Aquatic plant growth ¾ to the water surface



Invasive Species

Invasive Species that have not been detected around Little Lake but that you should be on the look out for:

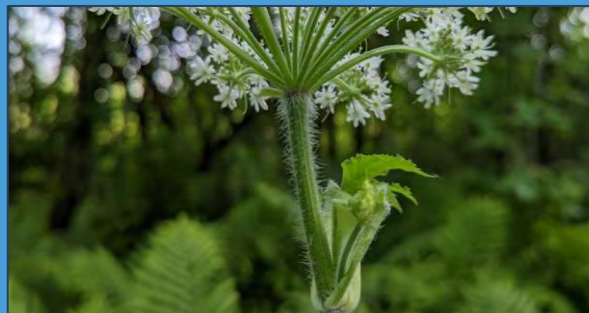
- Giant Hogweed** (*Heracleum mantegazzianum*) is a large noxious plant that is a member of the *Carrot* family. This species is often confused with Queen Anne's Lace.
- Can reach up to 5 meters in height with leaves that are up to 1.5 meters wide.
- Do not touch this plant because its sap contains toxins that cause severe burns to skin and eyes when exposed to light.



Beach closed due to bacteria



Aquatic plant growth



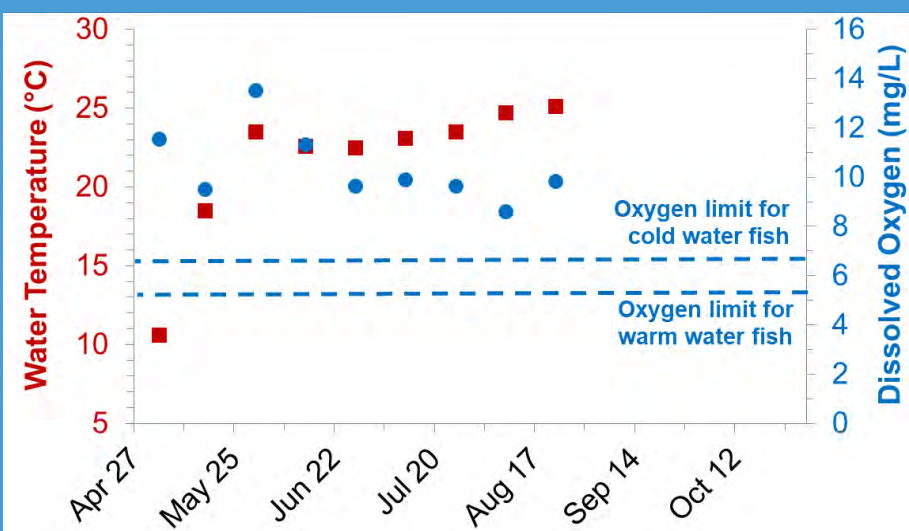
Hogweed stem & immature flower



Hogweed leaves

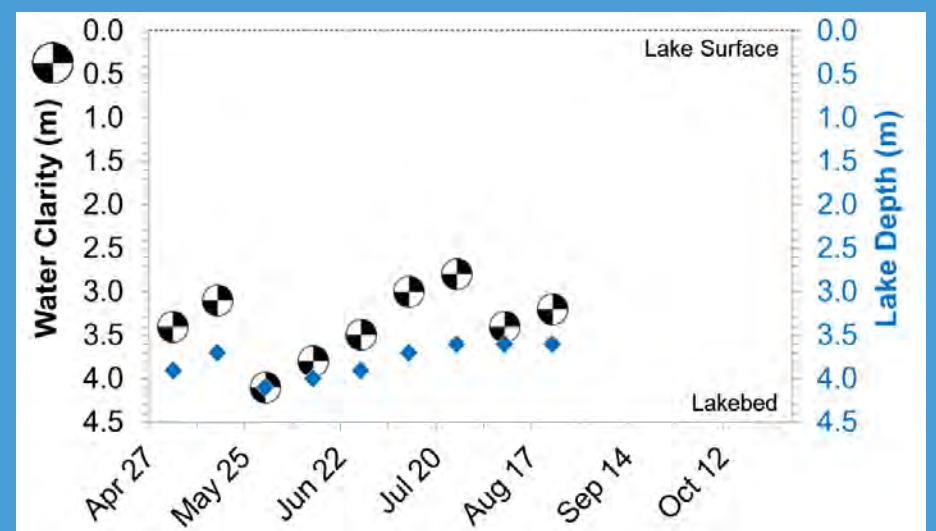
LITTLE LAKE SEASONAL WATER QUALITY TRENDS

Surface Temperature & Bottom Water Dissolved Oxygen



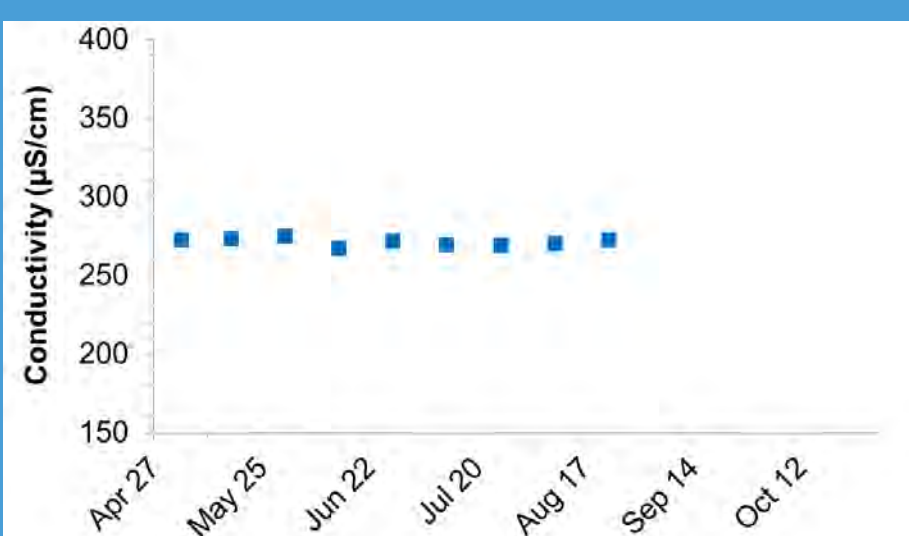
Oxygen levels have remained above the Provincial Water Quality Objectives for cold and warm water fish, despite warming water temperatures.

Water Clarity & Lake Depth



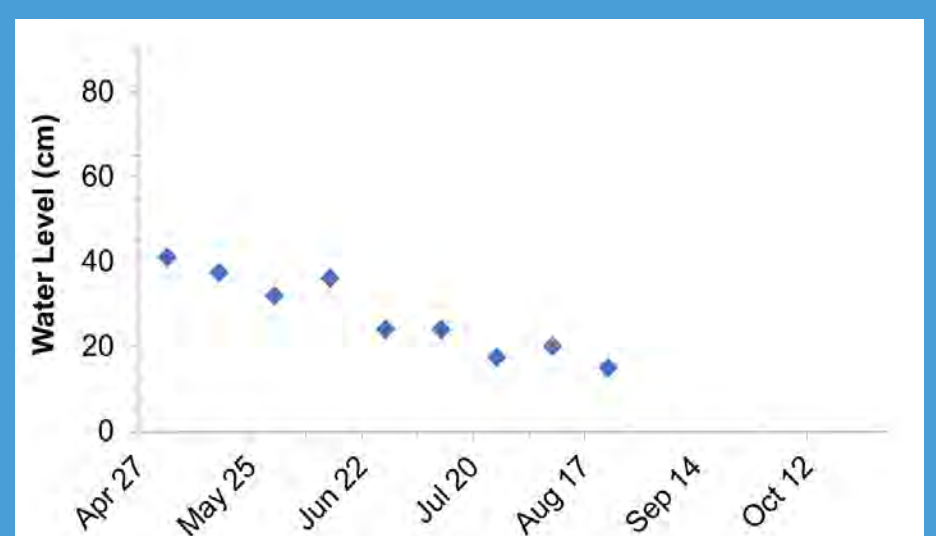
Water clarity is considered excellent if the lakebed is visible, which last occurred May 31st. Plant growth has impeded lake bed visibility.

Surface Water Conductivity



Conductivity indicates the amount of dissolved material in the water. Values have been consistent over the season so far.

Lake Water Levels at McMurty Dr. Outflow



Little Lake water levels are closely linked to recent rainfall. Water levels are not managed, however the Town maintains the outflow structure.



LITTLE LAKE (Midland) CONDITIONS UPDATE

Sample Date: September 6, 2022
Next Sample: September 20, 2022
(weather permitting)

Temperature at Surface

21.4°C



Temperatures have dropped since August 23rd.

Water Clarity

3.7 m



Lake Depth

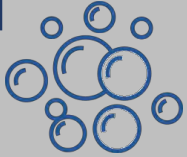
3.7 m

Water clarity is good when lakebed is visible. Water clarity has increased from August 23rd and the lakebed is now visible.



View from Little Lake boat launch

Bottom Water Dissolved Oxygen



10.03 mg/L

This is plenty for cold and warm water fish species.

Little Lake Outflow Level

6 cm



Readings taken at the McMurty Dr outflow structure indicate that levels have decreased steadily since early August.



Little Lake outflow on McMurty Dr.



General Observations

- Bright green water colour
- Some plant material on water surface
- Plant material washed up onshore
- Beach has been re-opened

Invasive Species

Invasive Species that have not been detected around Little Lake but that you should be on the look out for:

- **Banded Mystery Snail** (*Viviparus georgianus*) is an invasive invertebrate that has been introduced to the Great Lakes. Mystery snails reproduce rapidly, overtake shorelines, and can carry disease.
- **European Frog-Bit** (*Hydrocharis morsus-ranae*) is an aquatic plant that creates large mats on the water surfaces. These mats can decrease biodiversity and hinder recreational water activities.



Plant material washed up onshore



Group of fish near shore



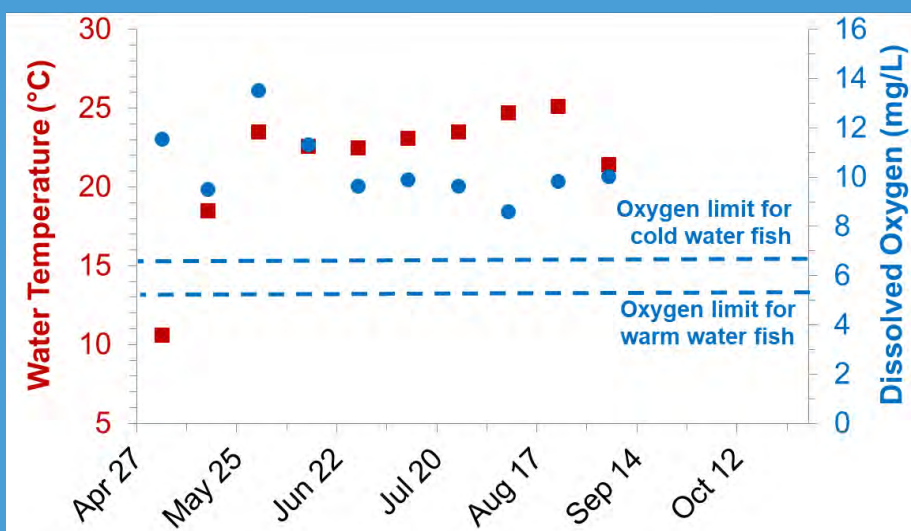
Banded Mystery Snail



European Frog-Bit

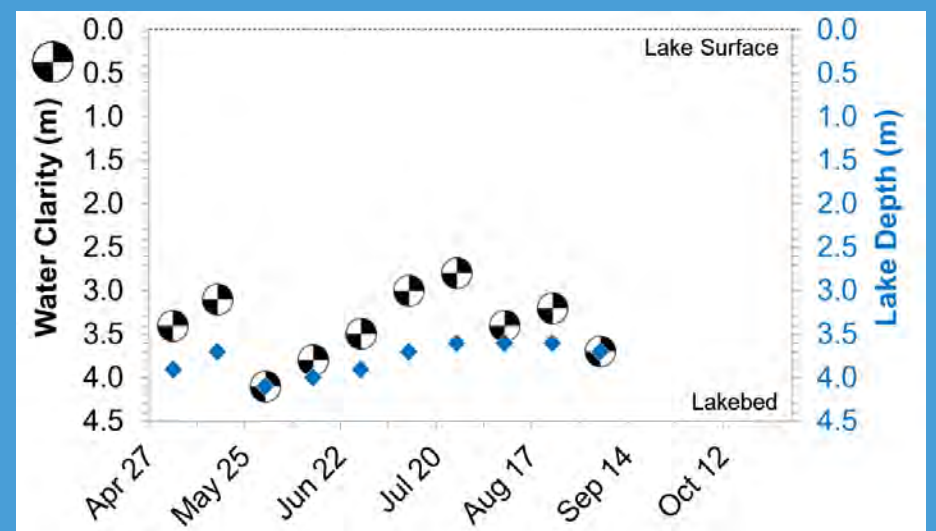
LITTLE LAKE SEASONAL WATER QUALITY TRENDS

Surface Temperature & Bottom Water Dissolved Oxygen



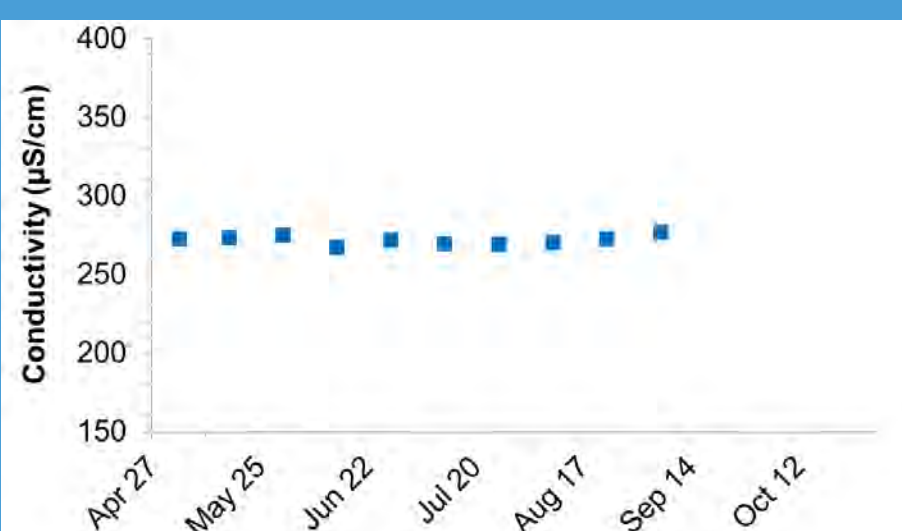
Oxygen levels have remained above the Provincial Water Quality Objectives for cold and warm water fish.

Water Clarity & Lake Depth



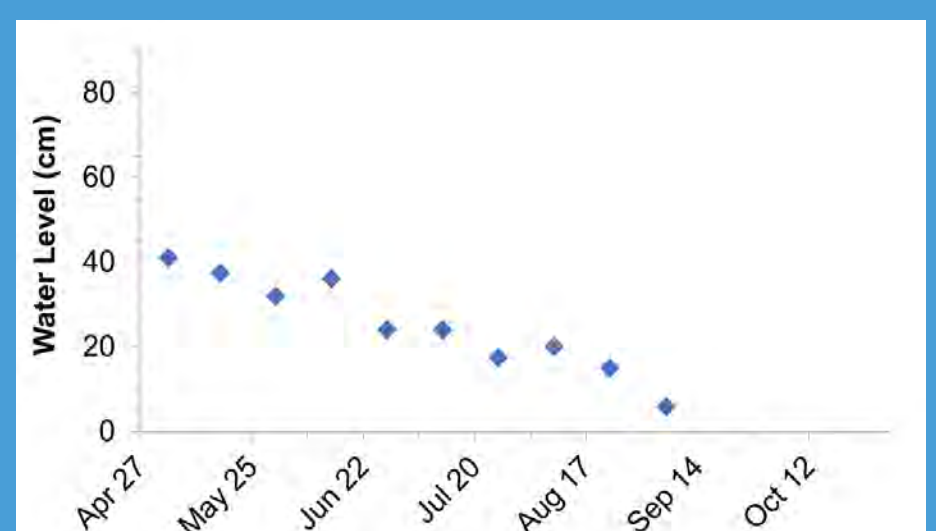
Water clarity is considered excellent if the lakebed is visible. Water clarity has increased since the last update, making the lakebed visible.

Surface Water Conductivity



Conductivity indicates the amount of dissolved material in the water. Values have been consistent over the season.

Lake Water Levels at McMurty Dr. Outflow



Little Lake water levels are closely linked to recent rainfall. Water levels are not managed, however the Town maintains the outflow structure.



LITTLE LAKE (Midland) CONDITIONS UPDATE

Sample Date: September 20, 2022
Next Sample: October 4, 2022
(weather permitting)

Temperature at Surface

20.2°C



Temperatures are decreasing with cooler air temperatures.

Water Clarity 3.6 m



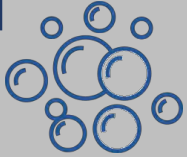
Lake Depth 3.6 m

Water clarity is good when lakebed is visible. Water clarity has remained stable since September 6th and the lakebed is still visible.



View from Little Lake boat launch

Bottom Water Dissolved Oxygen



10.28 mg/L

This is plenty for cold and warm water fish species.

Little Lake Outflow Level 0 cm



Readings taken at the McMurty Dr outflow structure indicate that levels have decreased steadily since early August.



Little Lake outflow on McMurty Dr.



General Observations

- Bright yellow green water colour
- Some foam and plant material on water surface
- Lake bottom is visible through plant growth
- Some foam on shoreline

Invasive Species

Invasive Species that have not been detected in Little Lake but that you should be on the look out for:

- Rusty Crayfish** (*Orconectes rusticus*) is a large invertebrate species that has a distinct rusty coloured patch on the side of its shell and black bands on its claws.
- They compete with other crayfish species and feed on aquatic vegetation that reduces habitat and food for other species.



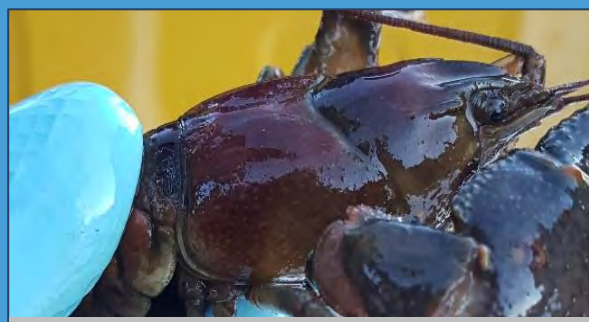
Recreational users are reminded to **Clean, Drain and Dry ALL equipment** before & after entering the lake!



Preserving a zooplankton sample



Measuring water clarity



Rusty patch on shell

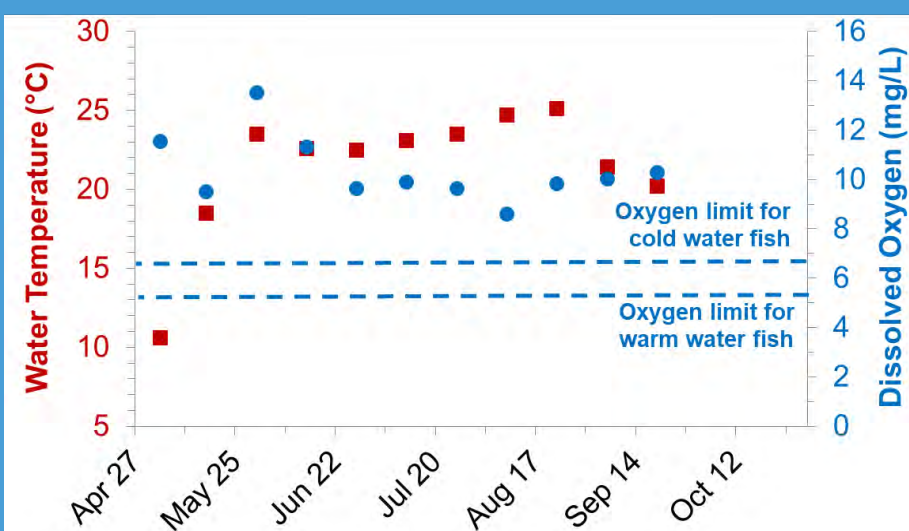


Black banding on claw

Photos: Cameron Epp

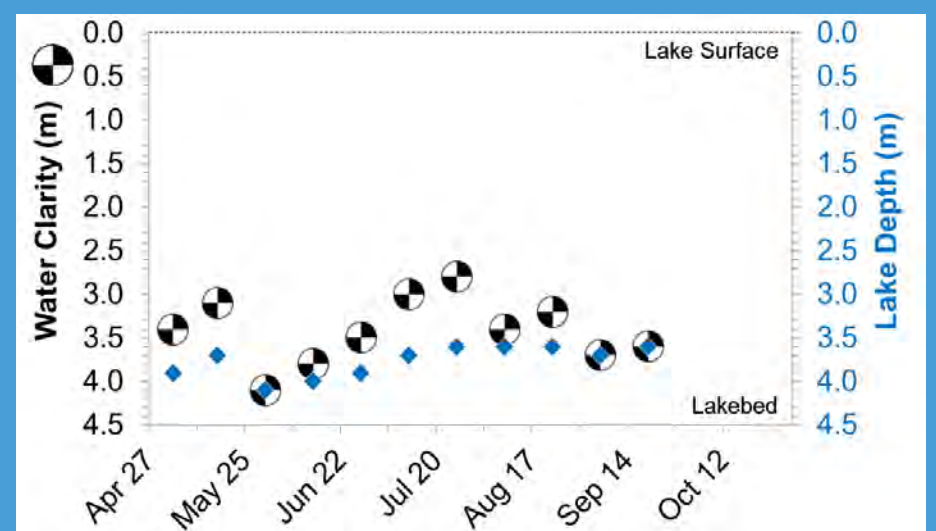
LITTLE LAKE SEASONAL WATER QUALITY TRENDS

Surface Temperature & Bottom Water Dissolved Oxygen



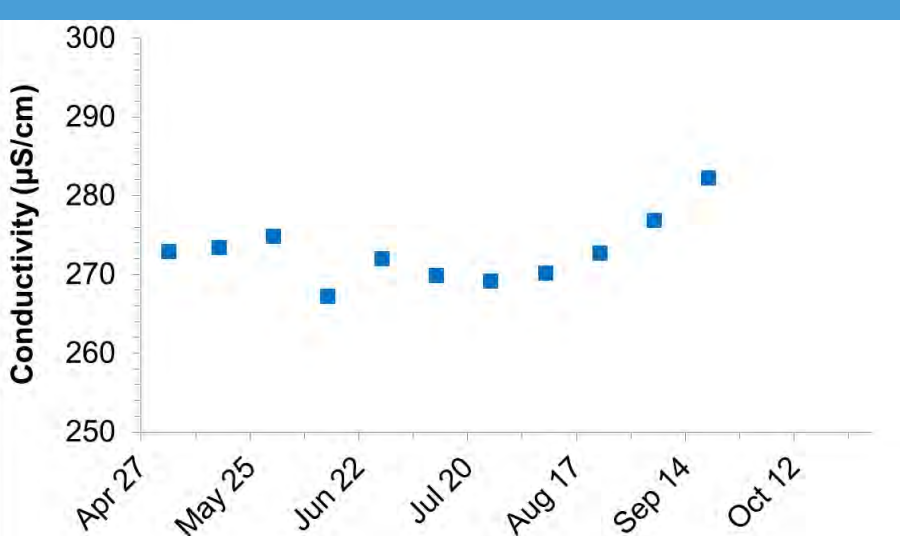
Oxygen levels have remained above the Provincial Water Quality Objectives for cold and warm water fish.

Water Clarity & Lake Depth



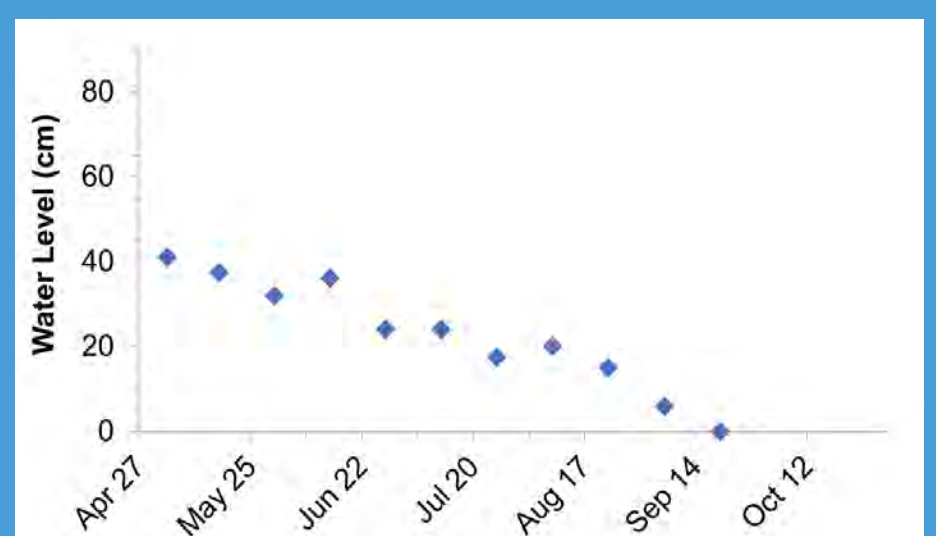
Water clarity is considered excellent if the lakebed is visible. Water clarity has remained stable with the lakebed still visible.

Surface Water Conductivity



Conductivity is related to the concentration of dissolved material in the water. Values have risen slightly, possibly due to a decrease in lake volume.

Lake Water Levels at McMurty Dr. Outflow



Little Lake water levels are closely linked to recent rainfall. Water levels are not managed, however the Town maintains the outflow structure.



LITTLE LAKE (Midland) CONDITIONS UPDATE

Sample Date: Oct 5, 2022

End of sampling for 2022 season

Temperature at Surface

15°C



Temperatures are decreasing with cooler air temperatures.

Water Clarity 3.8 m



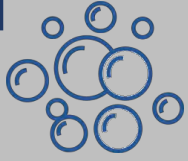
Lake Depth 3.8 m

Water clarity is good when lakebed is visible. Water clarity has remained stable since September 6th and the lakebed is still visible.



View from Little Lake boat launch

Bottom Water Dissolved Oxygen



11.22 mg/L

This is plenty for cold and warm water fish species.

Little Lake Outflow Level 7.5 cm



Readings taken at the McMurty Dr. outflow structure indicate that levels have increased since the last update on September 20th.



Little Lake outflow on McMurty Dr.



General Observations

- Bright yellow green water colour
- Insect casings and plant material on water surface
- Lake bottom is visible through plant growth
- Some foam on North shoreline

Invasive Species

Invasive Species found in or around Little Lake:

- **Japanese Knotweed** (*Reynoutria japonica*) is a woody-stemmed plant that grows in dense thickets and out-competes native plant species. This plant can damage infrastructure by growing through concrete and asphalt.
- **Periwinkle** (*Vinca major* & *Vinca minor*) is a small ornamental groundcover plant that commonly escapes from gardens. Periwinkle spreads very quickly and outcompetes native species. This invasive plant is still sold at nurseries and garden centers today.



Dead Carp found near shoreline



Staff lowering zooplankton net



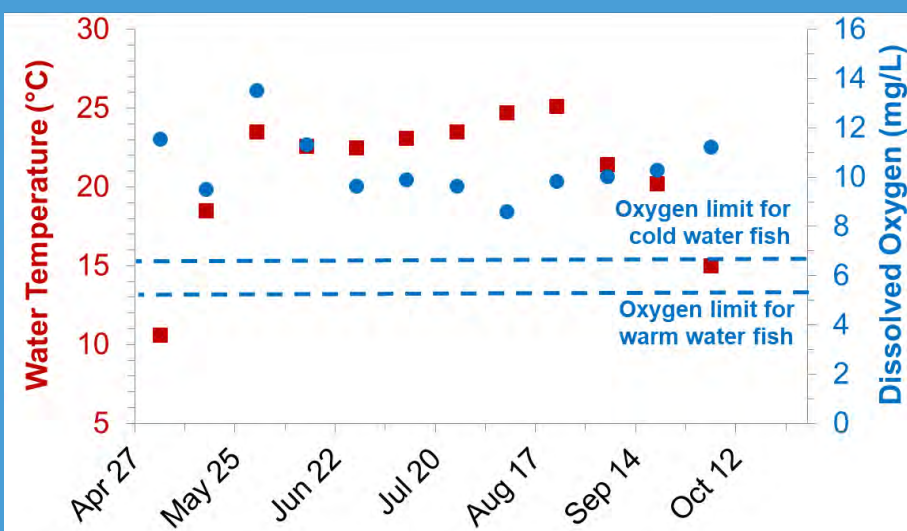
Japanese Knotweed



Periwinkle

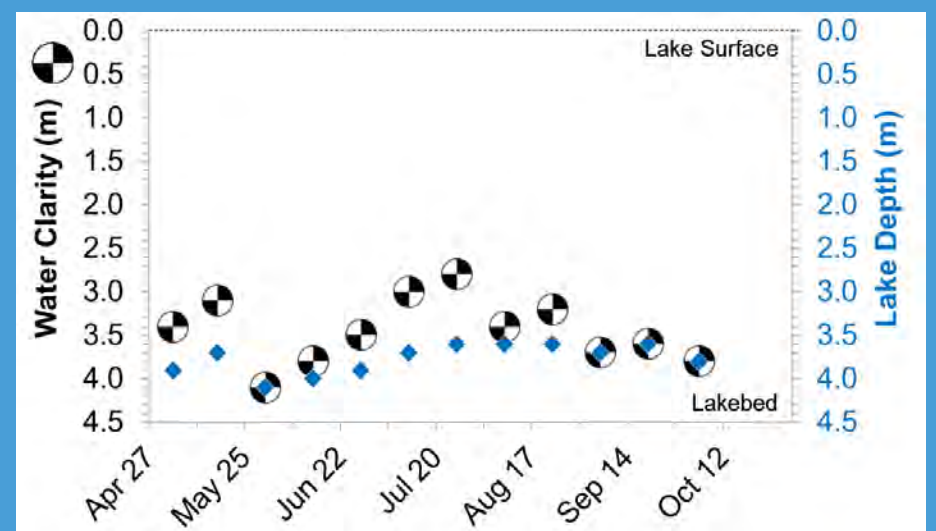
LITTLE LAKE SEASONAL WATER QUALITY TRENDS

Surface Temperature & Bottom Water Dissolved Oxygen



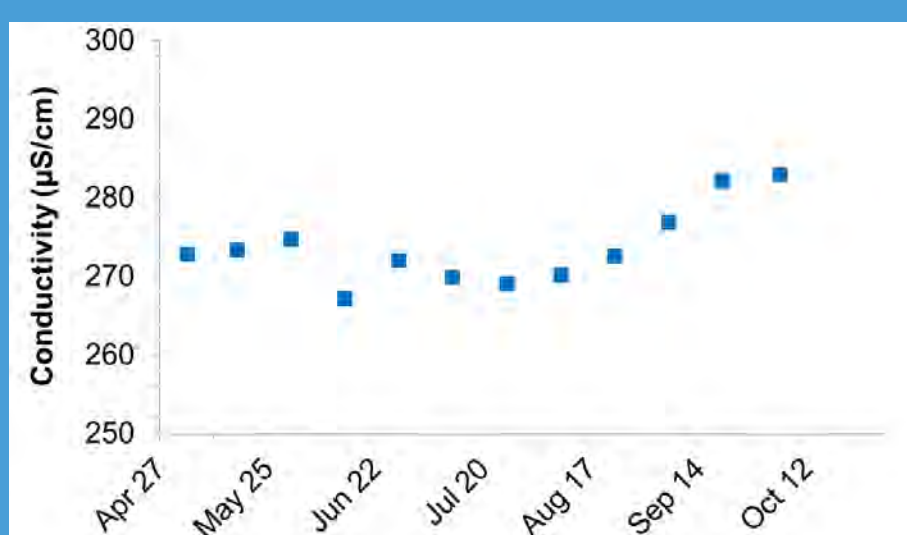
Oxygen levels have remained above the Provincial Water Quality Objectives for cold and warm water fish.

Water Clarity & Lake Depth



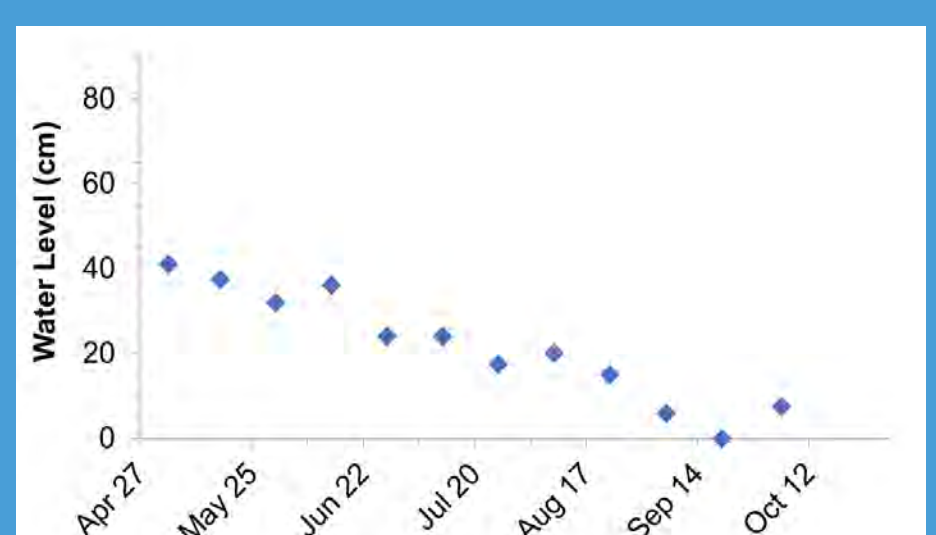
Water clarity is considered excellent if the lakebed is visible. Water clarity has remained stable since Aug 31st, with the lakebed still visible.

Surface Water Conductivity



Conductivity is related to the concentration of dissolved material in the water. Values have risen slightly, possibly due to a reduction in lake volume.

Lake Water Levels at McMurty Dr. Outflow



Little Lake water levels are closely linked to recent rainfall. Water levels are not managed, however the Town maintains the outflow structure.