

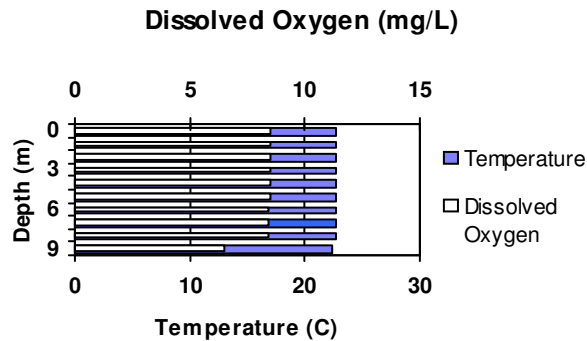
# LAKE CHECK Water Quality Monitoring Report

2023550

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee Lake	Date: 7/13/2023
		Site: Site 1

## On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	22.8	8.5	99
1	22.8	8.5	99
2	22.8	8.5	99
3	22.8	8.5	99
4	22.8	8.5	98
5	22.8	8.5	98
6	22.8	8.4	98
7	22.7	8.4	98
8	22.7	8.4	97
9	22.4	6.5	69



Secchi Disk Depth 4.0 meters

Thermocline Depth meters

## Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	194	uS/cm	
Total Dissolved Solids	126	mg/L	Low concentration of dissolved salts
pH	8.5	S.U.	Water is slightly alkaline
Alkalinity	87	mg CaCO3/L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	2.67	ug/L	Low algae production

## Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	40	mesotrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	40	mesotrophic

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## Conclusions

- Conditions are good for fish growth.
- Minimum dissolved oxygen is adequate for good fish production.
- pH is within acceptable limits.
- Phosphorus and Nitrogen are within acceptable limits.
- REPEAT LakeCheck Soon!!

- 
- WARNING, condition requires immediate attention.
  - CAUTION, condition requires further evaluation.
  - OK, condition within acceptable limits.
  - NEUTRAL, condition neither good nor bad.

## Notes

Report describes conditions at the time the sample was collected.

Approved by

*Jaimee Desjardins*

Date \_\_\_\_\_

Mrs. Jaimee Desjardins, Technical Services Manager

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PLM Lake & Land Management Corp  
P.O. Box 132  
Caledonia MI 49316-  
Phone: (616) 891-1294

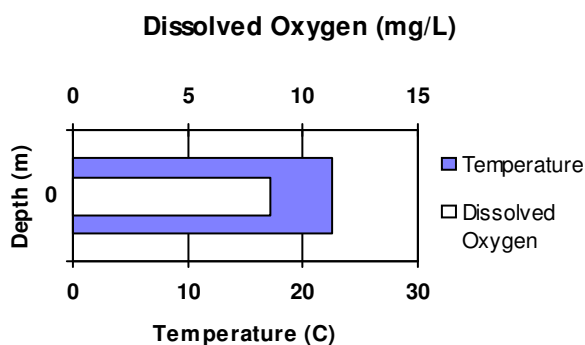
# LAKE CHECK Water Quality Monitoring Report

2023551

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee Lake	Date: 7/13/2023
		Site: Site 2

## On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	22.6	8.6	100



Secchi Disk Depth	4.0 meters
Thermocline Depth	meters

## Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	194	uS/cm	
Total Dissolved Solids	126	mg/L	Low concentration of dissolved salts
pH	8.6	S.U.	Water is slightly alkaline
Alkalinity	89	mg CaCO <sub>3</sub> /L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	1.7	ug/L	Low algae production

## Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	40	mesotrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	36	meso-oligotrophic

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## Conclusions

- Conditions are good for fish growth.
- Minimum dissolved oxygen is adequate for good fish production.
- pH is within acceptable limits.
- Phosphorus and Nitrogen are within acceptable limits.
- REPEAT LakeCheck Soon!!

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- WARNING, condition requires immediate attention.
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  - OK, condition within acceptable limits.
  - NEUTRAL, condition neither good nor bad.

## Notes

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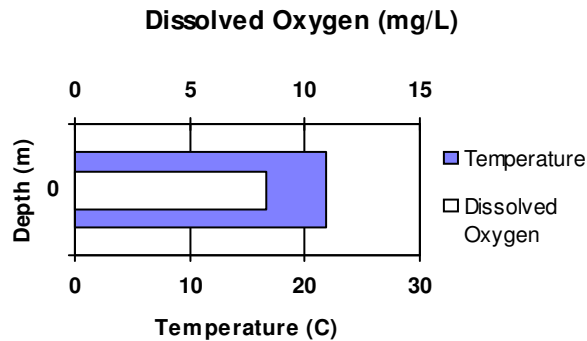
# LAKE CHECK Water Quality Monitoring Report

2023554

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee	Date: 7/13/2023
		Site: Site 3

## On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	21.8	8.4	95



Secchi Disk Depth	2.0 meters
Thermocline Depth	meters

## Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	196	uS/cm	
Total Dissolved Solids	127	mg/L	Low concentration of dissolved salts
pH	8.5	S.U.	Water is slightly alkaline
Alkalinity	93	mg CaCO <sub>3</sub> /L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	270	ug/L	Slightly nitrogen enriched
Chlorophyll	5.37	ug/L	Moderate algae production

## Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	50	moderately eutrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	47	mesotrophic

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## Conclusions

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- Minimum dissolved oxygen is adequate for good fish production.
- pH is within acceptable limits.
- Phosphorus and Nitrogen are within acceptable limits.
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## Notes

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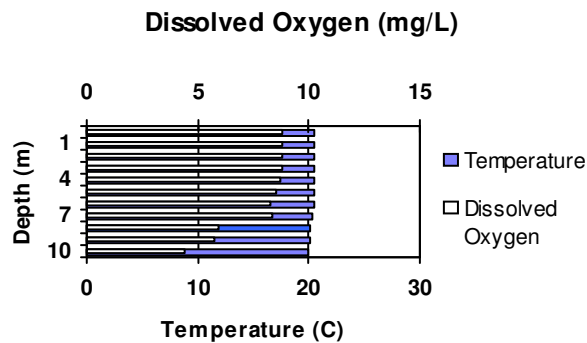
# LAKE CHECK Water Quality Monitoring Report

2023600

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee Lake	Date: 9/11/2023
		Site: Site 1

## On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen (mg/L)	
		mg/L	%
0	20.5	8.8	98
1	20.5	8.8	98
2	20.5	8.8	98
3	20.5	8.8	98
4	20.4	8.7	96
5	20.4	8.5	95
6	20.4	8.3	93
7	20.3	8.3	92
8	20.2	6.0	66
9	20.1	5.8	62
10	20.0	4.4	53



Secchi Disk Depth 4.0 meters  
Thermocline Depth meters

## Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	182	uS/cm	
Total Dissolved Solids	118	mg/L	Low concentration of dissolved salts
pH	8.5	S.U.	Water is slightly alkaline
Alkalinity	80	mg CaCO <sub>3</sub> /L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	1.03	ug/L	Low algae production

## Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	40	mesotrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	31	meso-oligotrophic

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## Conclusions

- Conditions are good for fish growth.
- Minimum dissolved oxygen is adequate for good fish production.
- pH is within acceptable limits.
- Phosphorus and Nitrogen are within acceptable limits.
- REPEAT LakeCheck NEXT YEAR!

- 
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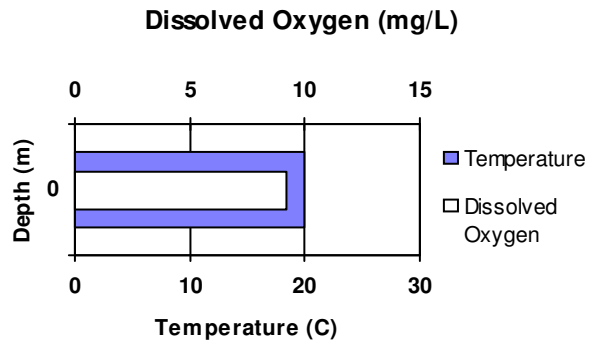


# Water Quality Monitoring Report

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee Lake	Date: 9/11/2023
		Site: Site 2

## On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	20.0	9.2	101



Secchi Disk Depth	4.0 meters
Thermocline Depth	meters

## Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	182	uS/cm	
Total Dissolved Solids	118	mg/L	Low concentration of dissolved salts
pH	8.6	S.U.	Water is slightly alkaline
Alkalinity	80	mg CaCO <sub>3</sub> /L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	1.03	ug/L	Low algae production

## Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	40	mesotrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	31	meso-oligotrophic

---

## Conclusions

- Conditions are good for fish growth.
- Minimum dissolved oxygen is adequate for good fish production.
- pH is within acceptable limits.
- Phosphorus and Nitrogen are within acceptable limits.
- REPEAT LakeCheck NEXT YEAR!

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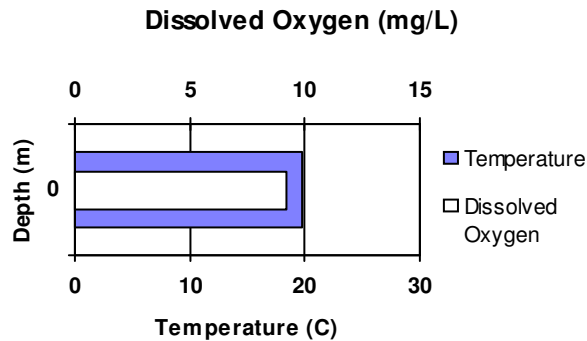


# Water Quality Monitoring Report

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee Lake	Date: 9/11/2023
		Site: Site 3

## On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	19.8	9.2	101



Secchi Disk Depth	3.0 meters
Thermocline Depth	meters

## Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	184	uS/cm	
Total Dissolved Solids	119	mg/L	Low concentration of dissolved salts
pH	8.6	S.U.	Water is slightly alkaline
Alkalinity	76	mg CaCO <sub>3</sub> /L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	N/A		

## Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	44	mesotrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	N/A	

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## Conclusions

- Conditions are good for fish growth.
- Minimum dissolved oxygen is adequate for good fish production.
- pH is within acceptable limits.
- Phosphorus and Nitrogen are within acceptable limits.
- REPEAT LakeCheck NEXT YEAR!

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