

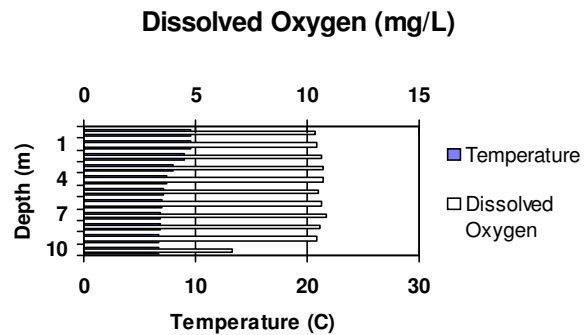


# Water Quality Monitoring Report

Customer	Waterbody	Sample Information
Lake of the Woods	Lake of the Woods	Date: 4/9/2019
		Site: Middle

## On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	9.5	10.3	91
1	9.5	10.4	91
2	9.0	10.6	91
3	8.0	10.7	90
4	7.4	10.7	90
5	7.1	10.5	87
6	7.0	10.7	88
7	6.8	10.8	89
8	6.8	10.6	87
9	6.7	10.4	86
10	6.7	6.6	50



Secchi Disk Depth 4.0 meters  
 Thermocline Depth 3 meters

## Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	430	uS/cm	
Total Dissolved Solids	280	mg/L	Moderate concentration of dissolved salts
pH	8.3	S.U.	Water is slightly alkaline
Alkalinity	177	mg CaCO3/L	Water is hard
Total Phosphorus	16	ug/L	Moderately phosphorus enriched
Nitrates	590	ug/L	Moderately nitrogen enriched
Chlorophyll	N/A		

## Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	40	mesotrophic
Based on Total Phosphorus	40	mesotrophic
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.
- Sample is somewhat phosphorus enriched. Create natural buffer between lawn & lakeshore.
- Sample is somewhat nutrient (N and P) enriched. Adopt appropriate lakeshore landscaping and lawn care practices.
- Repeat LakeCheck in Fall.

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- 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 Conroy*

Date 12/9/2019

Mrs. Jaimee Conroy, Technical Services Manager

FROM YOUR **WQ  
PRO** DEALER



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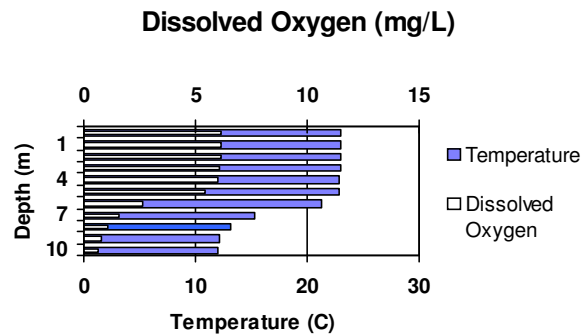
# LAKE CHECK Water Quality Monitoring Report

2019301

Customer	Waterbody	Sample Information
Lake of the Woods	Lake of the Woods	Date: 8/29/2019
		Site: Middle

## On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	23.0	6.1	71
1	23.0	6.2	72
2	23.0	6.1	71
3	23.0	6.1	71
4	22.9	6.0	71
5	22.8	5.4	64
6	21.3	2.6	31
7	15.3	1.6	16
8	13.2	1.1	11
9	12.2	0.8	8
10	12.0	0.6	6



Secchi Disk Depth 2.3 meters

Thermocline Depth 6 meters

## Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	380	uS/cm	
Total Dissolved Solids	247	mg/L	Moderate concentration of dissolved salts
pH	8.4	S.U.	Water is slightly alkaline
Alkalinity	213	mg CaCO3/L	Water is very hard
Total Phosphorus	72	ug/L	Phosphorus polluted
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	N/A		

## Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	48	mesotrophic
Based on Total Phosphorus	61	hypereutrophic
Based on Chlorophyll	N/A	

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## Conclusions

- Conditions for fish growth are FAIR. (see cautions/warnings below)
- pH is within acceptable limits.
- Sample is highly phosphorus enriched. Consider nutrient abatement measures.
- Deep water sample indicates possible internal loading of nutrients.
- REPEAT LakeCheck NEXT YEAR!

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- 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.

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