

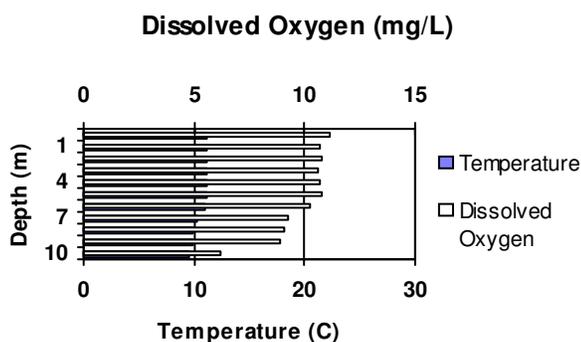
LAKE CHECK Water Quality Monitoring Report

2020198

Customer	Waterbody	Sample Information
Lake of the Woods	Lake of the Woods	Date: 4/30/2020
		Site: deep hole

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen (mg/L)	
		mg/L	%
0	11.2	11.1	102
1	11.2	10.7	98
2	11.2	10.8	99
3	11.2	10.6	96
4	11.2	10.7	97
5	11.1	10.8	98
6	10.9	10.3	93
7	10.2	9.2	82
8	9.8	9.1	81
9	9.8	8.9	79
10	9.6	6.2	59



Secchi Disk Depth 1.8 meters

Thermocline Depth meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	396	uS/cm	
Total Dissolved Solids	257	mg/L	Moderate concentration of dissolved salts
pH	8.7	S.U.	Water is slightly alkaline
Alkalinity	184	mg CaCO ₃ /L	Water is very hard
Total Phosphorus	12	ug/L	Moderately phosphorus enriched
Nitrates	361	ug/L	Slightly nitrogen enriched
Chlorophyll	N/A		

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	52	moderately eutrophic
Based on Total Phosphorus	36	meso-oligotrophic
Based on Chlorophyll	N/A	

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 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 Desjardins

Date 10/16/2020

Mrs. Jaimee Desjardins, Technical Services Manager

FROM YOUR **WO
PRO** DEALER



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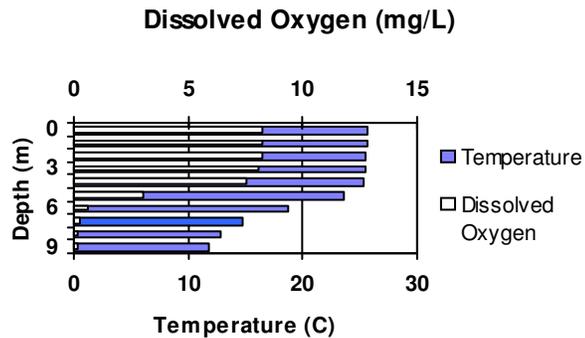
Water Quality Monitoring Report

2020199

Customer	Waterbody	Sample Information
Lake of the Woods	Lake of the Woods	Date: 9/1/2020
		Site: deep hole

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
9	11.8	0.2	2
0	25.6	8.2	100
1	25.6	8.2	100
2	25.5	8.2	100
3	25.5	8.1	99
4	25.4	7.5	91
5	23.6	3.0	36
6	18.7	0.6	6
7	14.8	0.3	3
8	12.8	0.2	2



Secchi Disk Depth 3.0 meters

Thermocline Depth 4.5 meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	379	uS/cm	
Total Dissolved Solids	244	mg/L	Moderate concentration of dissolved salts
pH	8.6	S.U.	Water is slightly alkaline
Alkalinity	186	mg CaCO3/L	Water is very hard
Total Phosphorus	48	ug/L	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	56	eutrophic
Based on Chlorophyll	N/A	

Conclusions

- Conditions are good for fish growth.
- Bottom water is deoxygenated, preventing fish from living in cooler water at bottom of lake.
- pH is within acceptable limits.
- Sample is somewhat phosphorus enriched. Create natural buffer between lawn & lakeshore.
- Deep water sample indicates possible internal loading of nutrients.
- REPEAT LakeCheck NEXT YEAR!

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 - 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 10/16/2020
Mrs. Jaimee Desjardins, Technical Services Manager

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