



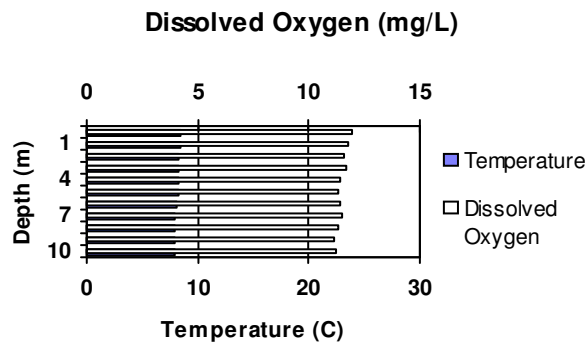
Water Quality Monitoring Report

2022795

Customer	Waterbody	Sample Information
Crystal Lake (Jackson)	Crystal Lake	Date: 4/20/2022
	Area: acres	Site: Middle
	Depth: Feet (max)	
	Feet (avg.)	

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	8.4	11.9	102
1	8.4	11.7	100
2	8.3	11.6	99
3	8.3	11.7	99
4	8.3	11.4	97
5	8.2	11.3	96
6	8.1	11.4	97
7	7.9	11.5	97
8	7.9	11.3	96
9	7.9	11.1	94
10	7.9	11.2	94



Secchi Disk Depth 5.0 meters

Thermocline Depth meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	289	uS/cm	
Total Dissolved Solids	188	mg/L	Low concentration of dissolved salts
pH	8.1	S.U.	Water is slightly alkaline
Alkalinity	105	mg CaCO3/L	Water is soft
Total Phosphorus	10	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	37	meso-oligotrophic
Based on Total Phosphorus	33	meso-oligotrophic
Based on Chlorophyll	N/A	

Conclusions

- Water meets bacteriological standards for safe swimming.
- 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.
- No remedial action recommended at this time.

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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

Jaimée Desjardins

Date 12/14/2022

Mrs. Jaimée Desjardins, Technical Services Manager

FROM YOUR **WQ
PRO** DEALER



PLM Lake & Land Management Corp
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Phone: (616) 891-1294



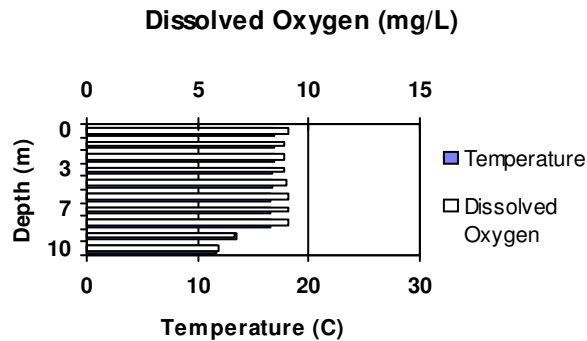
Water Quality Monitoring Report

2022796

Customer	Waterbody	Sample Information
Crystal Lake (Jackson)	Crystal Lake	Date: 10/4/2022
	Area: acres	Site: Middle
	Depth: Feet (max)	
	Feet (avg.)	

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	16.8	9.0	94
1	16.8	8.9	90
2	16.8	8.9	90
3	16.7	8.9	90
4	16.7	8.9	91
6	16.6	9.1	92
7	16.6	9.1	92
8	16.5	9.0	93
9	13.4	6.6	66
10	11.7	5.9	58



Secchi Disk Depth 6.0 meters

Thermocline Depth 9 meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	281	uS/cm	
Total Dissolved Solids	237	mg/L	Moderate concentration of dissolved salts
pH	787.0	S.U.	ERROR
Alkalinity	110	mg CaCO3/L	Water is soft
Total Phosphorus	10	ug/L	Slightly phosphorus enriched
Nitrates	100	ug/L	Not nitrogen enriched
Chlorophyll	N/A		

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	34	meso-oligotrophic
Based on Total Phosphorus	33	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.
- No remedial action recommended at this time.
- 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.

Approved by Jaimee Desjardins Date 12/14/2022
Mrs. Jaimee Desjardins, Technical Services Manager

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