

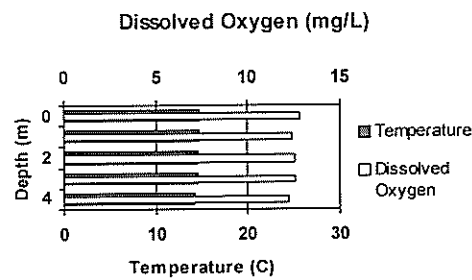


# Water Quality Monitoring Report

Customer	Waterbody	Sample Information
Dean Lake	Dean Lake	Date: 4/13/2021 Site: Deep Hole

## On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen (mg/L)	
		mg/L	%
0	14.7	12.8	127
1	14.7	12.4	122
2	14.5	12.5	132
3	14.5	12.6	124
4	14.3	12.2	120



Secchi Disk Depth	2.5 meters
Thermocline Depth	meters

## Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	392	uS/cm	Moderate concentration of dissolved salts
Total Dissolved Solids	254	mg/L	
pH	8.7	S.U.	Water is slightly alkaline
Alkalinity	130	mg CaCO3/L	Water is hard
Total Phosphorus	13	ug/L	Moderately phosphorus enriched
Nitrates	200	ug/L	Not nitrogen enriched
Chlorophyll	N/A		

## Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	47	mesotrophic
Based on Total Phosphorus	37	meso-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.  
Sample is somewhat phosphorus enriched. Create natural buffer between lawn & lakeshore.
- 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 11/19/2021  
Mrs. Jaimee Desjardins, Technical Services Manager

FROM YOUR



DEALER



PLM Lake & Land Management Corp  
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Caledonia MI 49316-  
Phone: (616) 891-1294

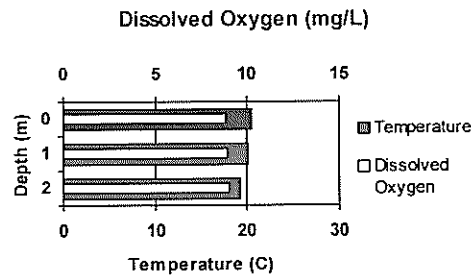


# Water Quality Monitoring Report

Customer	Waterbody	Sample Information
Dean Lake	Dean Lake	Date: 9/28/2021
		Site: Deep Hole

## On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	20.4	8.9	98
1	20.2	8.9	98
2	19.2	9.0	97



Secchi Disk Depth	2.0 meters
Thermocline Depth	1.5 meters

## Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	352	uS/cm	
Total Dissolved Solids	251	mg/L	Moderate concentration of dissolved salts
pH	8.5	S.U.	Water is slightly alkaline
Alkalinity	116	mg CaCO3/L	Water is soft
Total Phosphorus	23	ug/L	Moderately phosphorus enriched
Nitrates	200	ug/L	Not nitrogen enriched
Chlorophyll		N/A	

## Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	50	moderately eutrophic
Based on Total Phosphorus	45	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.
- REPEAT LakeCheck NEXT YEAR!

- 
- 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 11/19/2021

Mrs. Jaimée Desjardins, Technical Services Manager

FROM YOUR



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# Bacteria Sampling Report

Waterbody:  
Dean Lake

Dean Lake

Date Sampled:  
7/29/2021

Location	<i>E. coli</i>	Total Coliforms	Interpretation
#1	24		● Water meets bacteriological standards for safe swimming.
#2	<4		● Water meets bacteriological standards for safe swimming.
#3	<4		● Water meets bacteriological standards for safe swimming.

Bacterial counts are expressed as the number of Colony Forming Units per 100 milliliters (CFU/100mL).

For full body contact recreation (including swimming) counts of *E. coli* should not exceed 130 (CFU/100mL) as a monthly geometric mean of at least five samples per the State of Michigan standard, or single samples should not exceed 298 (CFU/100mL) [235 CFU/100mL in a designated bathing beach area] per Federal (EPA) guidelines.

Current recreational water quality standards do not rely on Total Coliform counts.

Approved by \_\_\_\_\_  
Mrs. Jaimee Conroy, Technical Services Manager

Date 04-Aug-21



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