

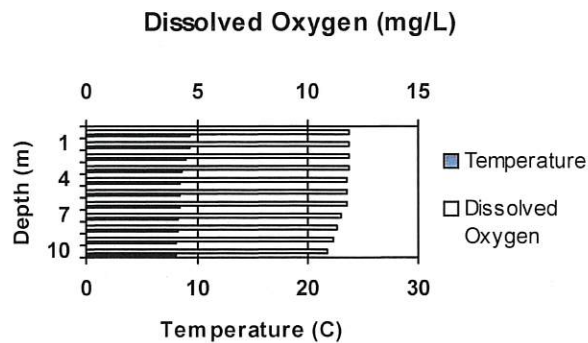


Water Quality Monitoring Report

Customer	Waterbody	Sample Information
West Lake (Muskegon)	West Lake	Date: 4/23/2019
		Site: Deep Hole

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	9.3	11.9	103
1	9.3	11.9	103
2	8.9	11.9	102
3	8.6	11.8	101
4	8.5	11.8	101
5	8.4	11.8	101
6	8.4	11.8	100
7	8.3	11.5	98
8	8.3	11.3	97
9	8.1	11.1	93
10	8.1	10.9	90



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	126	uS/cm	Low concentration of dissolved salts
Total Dissolved Solids	82	mg/L	
pH	7.8	S.U.	Water is slightly alkaline
Alkalinity	44	mg CaCO3/L	Water is very soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	200	ug/L	Not nitrogen enriched
Chlorophyll	N/A		

Trophic State Evaluation

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

-
- 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 11/21/2019

Mrs. Jaimee Conroy, Technical Services Manager

FROM YOUR



DEALER



PLM Lake & Land Management Corp

P.O. Box 132

Caledonia MI 49316-

Phone: (616) 891-1294

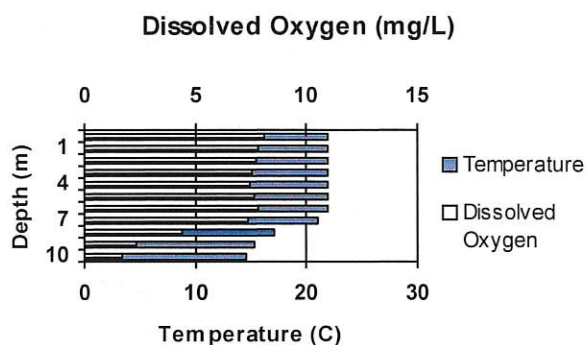
LAKE CHECK Water Quality Monitoring Report

2019130

Customer	Waterbody	Sample Information
West Lake (Muskegon)	West Lake	Date: 9/4/2019
		Site: Deep Hole

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	21.9	8.1	81
1	21.9	7.8	78
2	21.9	7.7	77
3	21.9	7.6	75
4	21.9	7.5	74
5	21.9	7.7	76
6	21.9	7.8	77
7	21.0	7.4	72
8	17.1	4.4	46
9	15.2	2.3	24
10	14.5	1.7	17



Secchi Disk Depth 5.0 meters

Thermocline Depth 7.5 meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	138	uS/cm	Low concentration of dissolved salts
Total Dissolved Solids	89	mg/L	
pH	8.1	S.U.	Water is slightly alkaline
Alkalinity	67	mg CaCO3/L	Water is soft
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	37	meso-oligotrophic
Based on Total Phosphorus	37	meso-oligotrophic
Based on Chlorophyll	N/A	

Conclusions

- Conditions are good for fish growth.
- Minimum dissolved oxygen is nearly low enough to adversely affect sensitive fish.
- 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

Jaimee Conroy

Date 11/21/2019

Mrs. Jaimee Conroy, Technical Services Manager

FROM YOUR



DEALER



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



Bacteria Sampling Report

Waterbody: West Lake (Muskegon)
West Lake (Muskegon)

Date Sampled:
7/9/2019

Location	<i>E. coli</i>	Total Coliforms	Interpretation
#1	1	N/A	● Water meets bacteriological standards for safe swimming.
#2	1	N/A	● Water meets bacteriological standards for safe swimming.
#3	1	N/A	● 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 Jaimie Conroy Date 11-Jul-19
Mrs. Jaimie Conroy, Technical Services Manager



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

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is crucial for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent and reliable data collection processes to support effective decision-making.

3. The third part of the document focuses on the role of technology in data management and analysis. It discusses how modern software solutions can streamline data collection, storage, and reporting, thereby improving efficiency and accuracy.

4. The fourth part of the document addresses the challenges associated with data management, such as data quality, security, and privacy. It provides strategies to mitigate these risks and ensure that data is used responsibly and ethically.

5. The fifth part of the document concludes by summarizing the key findings and recommendations. It stresses the importance of ongoing monitoring and evaluation to ensure that data management practices remain effective and aligned with the organization's goals.

6. The sixth part of the document provides a detailed overview of the data collection process, including the identification of data sources, the design of data collection instruments, and the implementation of data collection procedures.

7. The seventh part of the document discusses the various methods used for data analysis, such as descriptive statistics, inferential statistics, and qualitative analysis. It explains how these methods are used to interpret the data and draw meaningful conclusions.

8. The eighth part of the document focuses on the presentation of data, including the use of tables, charts, and graphs. It provides guidelines for creating clear and concise reports that effectively communicate the results of the data analysis.

9. The ninth part of the document discusses the importance of data security and privacy. It outlines the measures that should be taken to protect sensitive data from unauthorized access and ensure compliance with relevant regulations.

10. The tenth part of the document provides a final summary and concludes the report. It reiterates the key findings and offers final recommendations for improving data management practices in the future.