

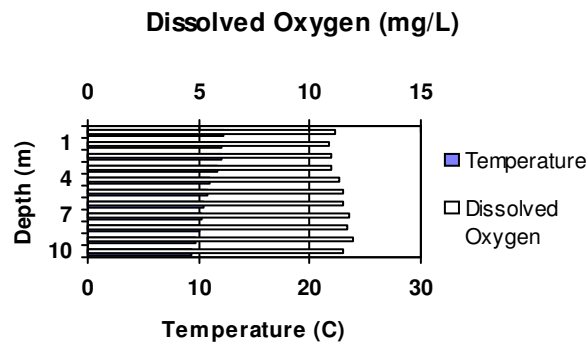
# LAKE CHECK Water Quality Monitoring Report

2024422

Customer	Waterbody	Sample Information
Lake Orion	Lake Orion	Date: 4/16/2024
		Site: Middle

## On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	12.2	11.2	105
1	12.1	10.9	103
2	12.0	11.0	102
3	11.6	11.0	101
4	10.9	11.3	103
5	10.7	11.5	103
6	10.5	11.5	103
7	10.2	11.7	104
8	10.0	11.7	101
9	9.7	11.9	101
10	9.3	11.5	100



Secchi Disk Depth 3.3 meters  
 Thermocline Depth meters

## Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	631	uS/cm	
Total Dissolved Solids	410	mg/L	Moderate concentration of dissolved salts
pH	8.5	S.U.	Water is slightly alkaline
Alkalinity	202	mg CaCO3/L	Water is very hard
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	43	mesotrophic
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.
- 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 Desjardins*

Date 11/25/2024

Mrs. Jaimee Desjardins, Technical Services Manager

FROM YOUR **WO  
PRO** DEALER



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

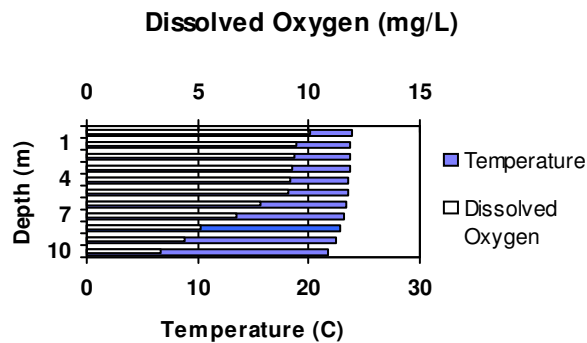
# LAKE CHECK Water Quality Monitoring Report

2024423

Customer	Waterbody	Sample Information
Lake Orion	Lake Orion	Date: 9/5/2024
		Site: Middle

## On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	23.9	10.0	120
1	23.8	9.5	111
2	23.8	9.4	112
3	23.7	9.3	111
4	23.5	9.2	109
5	23.5	9.1	108
6	23.3	7.8	94
7	23.2	6.7	85
8	22.9	5.1	65
9	22.5	4.4	53
10	21.7	3.3	38



Secchi Disk Depth 4.8 meters  
 Thermocline Depth meters

## Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	550	uS/cm	
Total Dissolved Solids	364	mg/L	Moderate concentration of dissolved salts
pH	5.5	S.U.	Water is acid
Alkalinity	190	mg CaCO3/L	Water is very hard
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	38	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!

- 
- 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 11/25/2024  
Mrs. Jaimee Desjardins, Technical Services Manager

FROM YOUR **WQ  
PRO** DEALER



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