

Customer	Waterbody	Sample Information
Emerald Lake	Emerald	Date: 5/13/2024
		Site: Middle

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved mg/L	Oxygen %	Dissolved Oxygen (mg/L)
0	17.9	10.9	115	— 0 5 10 15
1	17.8	10.9	115	
2	17.7	10.9	115	Ê 1 E Temperature
3	17.4	11.0	115	E 1 3 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7
4	16.2	14.2	145	5 Dissolved
5	14.5	14.8	145	Oxygen
6	13.2	10.0	95	0 10 20 30
7	12.9	6.1	58	Temperature (C)
Secch	i Disk Depth	4.0 meter	ſS	
Thern	nocline Depth	meter	ſS	

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli		CFU/100 mL	N/A
Conductivity	298	uS/cm	
Total Dissolved Solids	194	mg/L	Low concentration of dissolved salts
рН	8.6	S.U.	Water is slightly alkaline
Alkalinity	145	mg CaCO3/I	Water is 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	40	mesotrophic
Based on Total Phosphorus	33	meso-oligotrophic
Based on Chlorophyll	N/A	

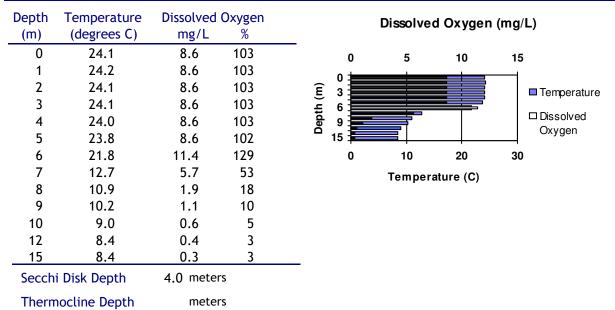
- Conditions are good for fish growth.
- Minimum dissolved oxygen is adequate for good fish production.
- pH is within acceptable limits.
- Phosphorus and Nitrogen are within acceptable limits.
- Repeat LakeCheck in Fall.
- WARNING, condition requires immediate attention.
- CAUTION, condition requires further evaluation.
- OK. condition within acceptable limits.
- NEUTRAL, condition neither good nor bad.

Notes

jardens Approved by 02 Date Mrs. Jaimee Desjardins, Technical Services Manager PLM Lake & Land Management Corp **FROM YOUR** DEALER P.O. Box 132 MI 49316-Caledonia Phone: (616) 891-1294

Customer	Waterbody	Sample Information
Emerald Lake	Emerald	Date: 8/19/2024
		Site: Middle

On-Site Results



Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli		CFU/100 mL	N/A
Conductivity	287	uS/cm	
Total Dissolved Solids	186	mg/L	Low concentration of dissolved salts
рН	8.1	S.U.	Water is slightly alkaline
Alkalinity	128	mg CaCO3/	LWater is hard
Total Phosphorus	12	ug/L	Moderately phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	N/A		

Trophic State Evaluation

	TSI Trophic Stat	tus
Based on Secchi Disk Depth	40 mesotroph	nic
Based on Total Phosphorus	36 meso-oligo	otrophic
Based on Chlorophyll	N/A	

- Conditions for fish growth are FAIR. (see cautions/warnings below)
- Minimum dissolved oxygen is nearly low enough to adversely affect sensitive fish.
- pH is within acceptable limits.
- Phosphorus and Nitrogen are within acceptable limits.
- 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

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Customer	Waterbody	Sample Information
Emerald/Sylvan	Sylvan	Date: 5/13/2024
		Site: Middle

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved mg/L	Oxygen %			Dissolve	d Oxyger	n (mg/L)
0	17.7	10.5	111	0)	5	10	15
1	17.4	10.6	111	- L				
2	17.3	10.7	112	(E) 2				Temperature
3	16.9	10.9	113	ے د ب				
4	16.1	12.3	127	Depth 5				
5	13.8	15.1	146	6				Oxygen
6	11.3	15.2	139	0)	10	20	30
Secch	i Disk Depth	4.0 meter	s			Tempera	ture (C)	
Therm	nocline Depth	meter	S					

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli		CFU/100 mL	N/A
Conductivity	294	uS/cm	
Total Dissolved Solids	191	mg/L	Low concentration of dissolved salts
рН	8.5	S.U.	Water is slightly alkaline
Alkalinity	148	mg CaCO3/	LWater is hard
Total Phosphorus	5	ug/L	Not phosphorus enriched
Nitrates	230	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	23	oligotrophic
Based on Chlorophyll	N/A	

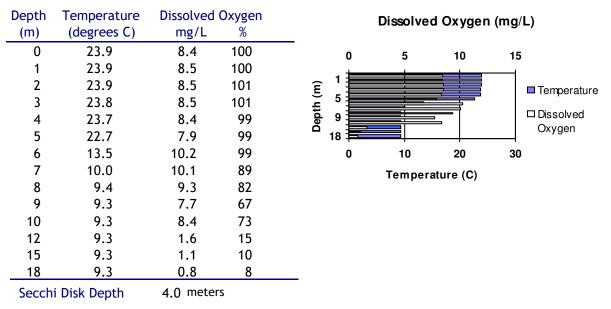
- Conditions are good for fish growth.
- Minimum dissolved oxygen is adequate for good fish production.
- pH is within acceptable limits.
- Phosphorus and Nitrogen are within acceptable limits.
- Repeat LakeCheck in Fall.
- WARNING, condition requires immediate attention.
- CAUTION, condition requires further evaluation.
- OK. condition within acceptable limits.
- NEUTRAL, condition neither good nor bad.

Notes

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Customer	Waterbody	Sample Information
Emerald/Sylvan Sylvan		Date: 8/19/2024
		Site: Middle

On-Site Results



Thermocline Depth

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli		CFU/100 mL	N/A
Conductivity	288	uS/cm	
Total Dissolved Solids	187	mg/L Low concentration of dissolved salts	Low concentration of dissolved salts
рН	8.0	S.U.	Water is slightly alkaline
Alkalinity	124	mg CaCO3/I	LWater is hard
Total Phosphorus	5	ug/L	Not phosphorus enriched
Nitrates	230	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	23 oligotrophic	
Based on Chlorophyll	N/A	

meters

- 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 PondCheck next year.
- WARNING, condition requires immediate attention.
- CAUTION, condition requires further evaluation.
- OK. condition within acceptable limits.
- NEUTRAL, condition neither good nor bad.

Notes

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