2024753

LAKE CHECK Water Quality Monitoring Report

Customer

Lake Miramichi

Waterbody

Upper Miramichi

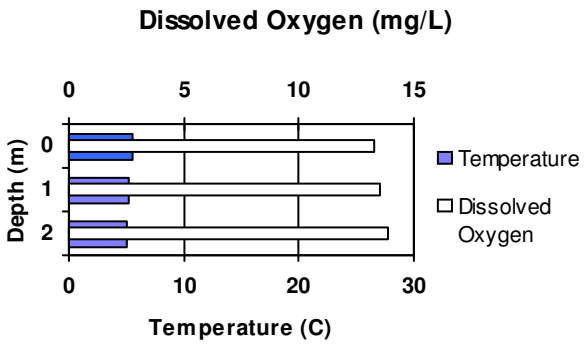
Sample Information

Date: 3/25/2024

Site: Middle

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen mg/L	Dissolved Oxygen %
0	5.5	13.3	106
1	5.2	13.5	106
2	5.1	13.9	109



Secchi Disk Depth	3.0	meters
Thermocline Depth		meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli		CFU/100 mL	N/A
Conductivity	347	uS/cm	Moderate concentration of dissolved salts
Total Dissolved Solids	226	mg/L	
pH	8.5	S.U.	Water is slightly alkaline
Alkalinity	141	mg CaCO3/L	Water 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	44	mesotrophic
Based on Total Phosphorus	23	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 _____

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

2024754

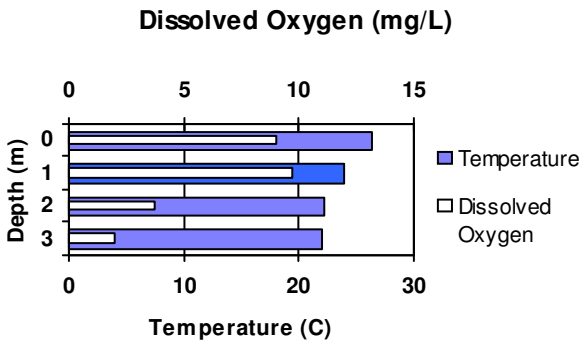
LAKE CHECK Water Quality Monitoring Report

Customer	Waterbody	Sample Information
Lake Miramichi	Upper Miramichi	Date: 8/27/2024
		Site: Middle

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen mg/L	Dissolved Oxygen %
0	26.3	9.0	12
1	24.0	9.7	115
2	22.2	3.7	44
3	22.0	2.0	22

Secchi Disk Depth	3.0	meters
Thermocline Depth		meters



Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli		CFU/100 mL	N/A
Conductivity	329	uS/cm	Moderate concentration of dissolved salts
Total Dissolved Solids	214	mg/L	
pH	8.1	S.U.	Water is slightly alkaline
Alkalinity	132	mg CaCO3/L	Water 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	44	mesotrophic
Based on Total Phosphorus	23	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 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.

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2024755

Lake Check Water Quality Monitoring Report

Customer
Lake Miramichi

Waterbody
Lower Miramichi

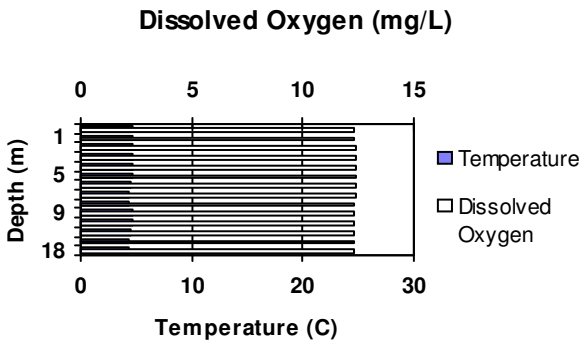
Sample Information
Date: 3/25/2024

Site: Middle

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen mg/L	Dissolved Oxygen %
0	4.7	12.3	95
1	4.6	12.3	96
2	4.6	12.4	96
3	4.6	12.4	96
4	4.6	12.4	96
5	4.7	12.4	96
6	4.5	12.4	96
7	4.4	12.4	96
8	4.4	12.4	96
9	4.6	12.4	96
10	4.6	12.4	96
12	4.5	12.3	95
15	4.4	12.3	95
18	4.4	12.3	95

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	292	uS/cm	Low concentration of dissolved salts
Total Dissolved Solids	190	mg/L	
pH	8.3	S.U.	Water is slightly alkaline
Alkalinity	132	mg CaCO3/L	Water 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	

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.

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2024756

LAKE CHECK Water Quality Monitoring Report

Customer

Lake Miramichi

Waterbody

Lower Miramichi

Sample Information

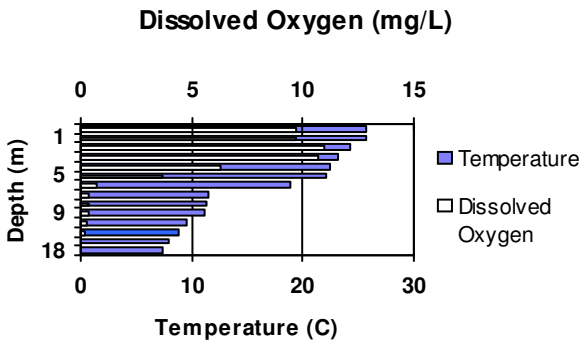
Date: 8/27/2024

Site: Middle

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen mg/L	Dissolved Oxygen %
0	25.6	9.7	118
1	25.6	9.7	118
2	24.3	10.9	130
3	23.1	10.7	125
4	22.5	6.3	74
5	22.1	3.7	42
6	18.8	0.8	9
7	11.5	0.4	4
8	11.3	0.4	3
9	11.1	0.3	3
10	9.5	0.2	2
12	8.8	0.2	2
15	7.9	0.1	1
18	7.4	0.1	1

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	263	uS/cm	Low concentration of dissolved salts
Total Dissolved Solids	171	mg/L	
pH	8.4	S.U.	Water is slightly alkaline
Alkalinity	126	mg CaCO3/L	Water 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	37	meso-oligotrophic
Based on Total Phosphorus	23	oligotrophic
Based on Chlorophyll	N/A	

Conclusions

- 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

Report describes conditions at the time the sample was collected.

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