

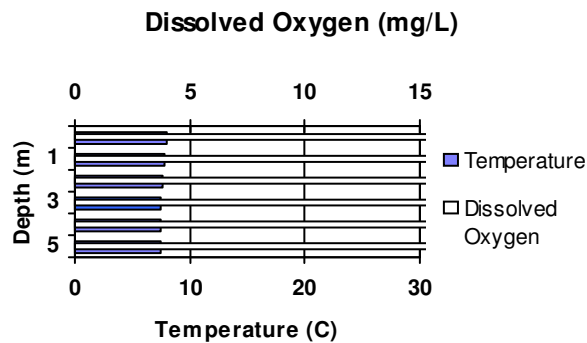
LAKE CHECK Water Quality Monitoring Report

2022400

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee	Date: 4/28/2022
		Site: Site #1

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	7.9	17.0	143
1	7.8	17.4	147
2	7.6	17.2	144
3	7.5	17.0	142
4	7.4	17.1	143
5	7.5	16.9	142
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	195	uS/cm	
Total Dissolved Solids	132	mg/L	Low concentration of dissolved salts
pH	8.2	S.U.	Water is slightly alkaline
Alkalinity	98	mg CaCO3/L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll			ERROR

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	40	mesotrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	Type! #Type!	

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 Soon!!

-
- 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

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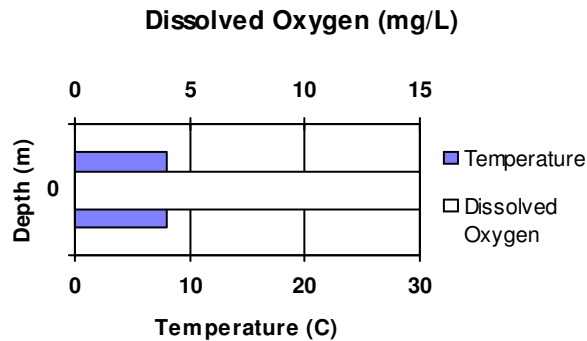
Water Quality Monitoring Report

2022401

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee	Date: 4/28/2022
		Site: Site #2

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	7.9	15.0	127



Secchi Disk Depth	2.0 meters
Thermocline Depth	meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	196	uS/cm	
Total Dissolved Solids	134	mg/L	Low concentration of dissolved salts
pH	8.1	S.U.	Water is slightly alkaline
Alkalinity	91	mg CaCO ₃ /L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	1.28	ug/L	Low algae production

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	50	moderately eutrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	33	meso-oligotrophic

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.
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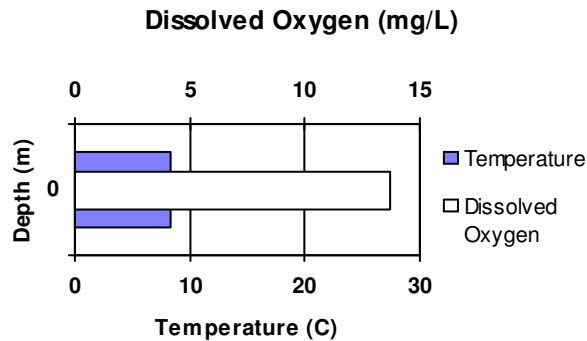
LAKE CHECK Water Quality Monitoring Report

2022402

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee	Date: 4/28/2022
		Site: Site #3

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen mg/L	%
0	8.3	13.7	118



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	196	uS/cm	
Total Dissolved Solids	134	mg/L	Low concentration of dissolved salts
pH	8.1	S.U.	Water is slightly alkaline
Alkalinity	96	mg CaCO ₃ /L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	1.35	ug/L	Low algae production

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	44	mesotrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	34	meso-oligotrophic

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 Soon!!

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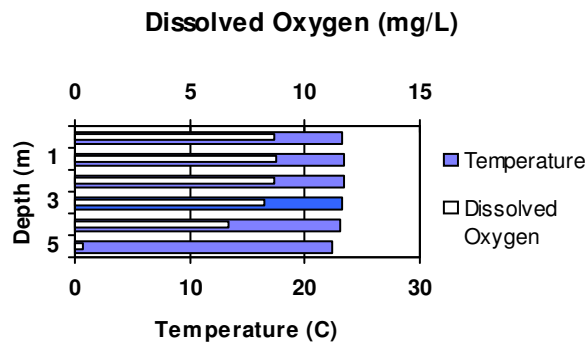
Water Quality Monitoring Report

2022474

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee	Date: 7/6/2022
		Site: Site #1

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen (mg/L)	
		mg/L	%
0	23.3	8.7	102
1	23.4	8.7	102
2	23.4	8.7	102
3	23.2	8.2	96
4	23.1	6.7	78
5	22.3	0.4	5



Secchi Disk Depth 2.0 meters
Thermocline Depth meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	203	uS/cm	
Total Dissolved Solids	132	mg/L	Low concentration of dissolved salts
pH	8.3	S.U.	Water is slightly alkaline
Alkalinity	92	mg CaCO ₃ /L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	2.35	ug/L	Low algae production

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	50	moderately eutrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	39	mesotrophic

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.

-
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Notes

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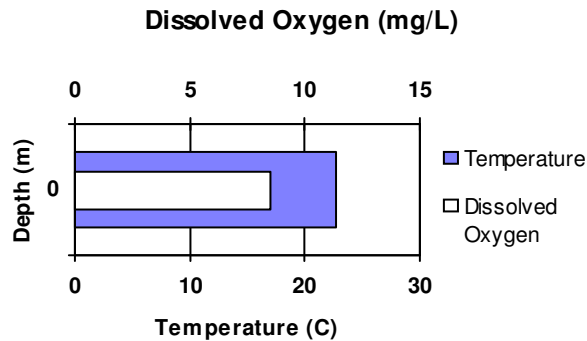
LAKE CHECK Water Quality Monitoring Report

2022475

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee	Date: 7/6/2022
		Site: Site #2

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen mg/L	%
0	22.8	8.5	99



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	218	uS/cm	
Total Dissolved Solids	142	mg/L	Low concentration of dissolved salts
pH	8.2	S.U.	Water is slightly alkaline
Alkalinity	98	mg CaCO ₃ /L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	2.31	ug/L	Low algae production

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	44	mesotrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	39	mesotrophic

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.

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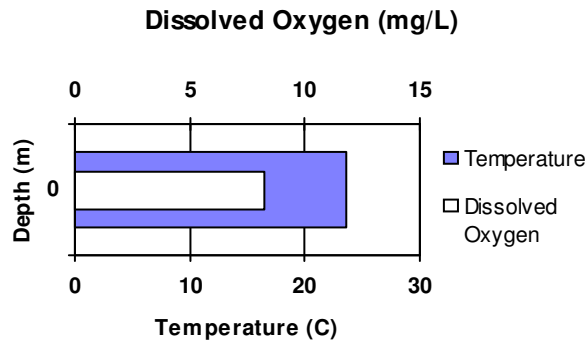
LAKE CHECK Water Quality Monitoring Report

2022476

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee	Date: 7/6/2022
		Site: Site #3

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	23.6	8.2	97



Secchi Disk Depth	2.0 meters
Thermocline Depth	meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	223	uS/cm	
Total Dissolved Solids	145	mg/L	Low concentration of dissolved salts
pH	8.1	S.U.	Water is slightly alkaline
Alkalinity	100	mg CaCO ₃ /L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	2.61	ug/L	Low algae production

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	50	moderately eutrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	40	mesotrophic

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.

-
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Water Quality Monitoring Report

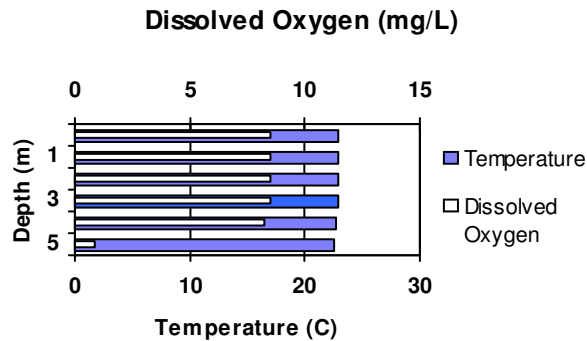
2022477

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee	Date: 8/29/2022
		Site: Site #1

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen (mg/L)	
		mg/L	%
0	22.9	8.5	99
1	22.9	8.5	99
2	22.9	8.5	99
3	22.9	8.5	99
4	22.8	8.2	96
5	22.5	0.9	11

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	216	uS/cm	
Total Dissolved Solids	140	mg/L	Low concentration of dissolved salts
pH	8.6	S.U.	Water is slightly alkaline
Alkalinity	96	mg CaCO3/L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	1.47	ug/L	Low algae production

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	44	mesotrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	34	meso-oligotrophic

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!

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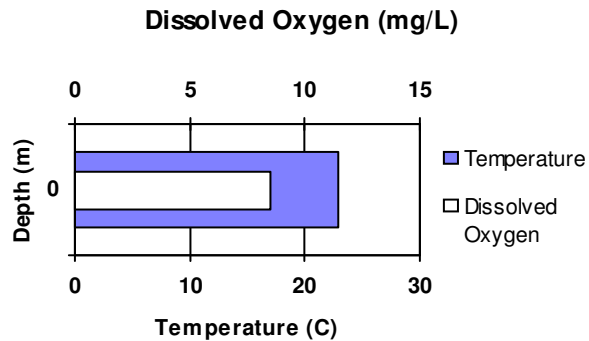
Water Quality Monitoring Report

2022479

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee	Date: 8/29/2022
		Site: Site #2

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	22.9	8.5	99



Secchi Disk Depth	2.0 meters
Thermocline Depth	meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	214	uS/cm	
Total Dissolved Solids	139	mg/L	Low concentration of dissolved salts
pH	8.5	S.U.	Water is slightly alkaline
Alkalinity	93	mg CaCO ₃ /L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	3.47	ug/L	Low algae production

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	50	moderately eutrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	43	mesotrophic

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.
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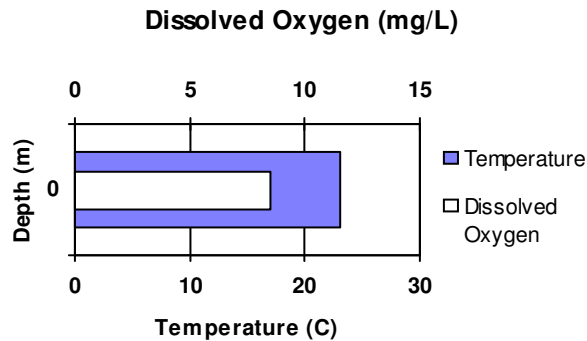
LAKE CHECK Water Quality Monitoring Report

2022480

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee	Date: 8/29/2022
		Site: Site #3

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	23.0	8.5	99



Secchi Disk Depth	2.0 meters
Thermocline Depth	meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	215	uS/cm	
Total Dissolved Solids	140	mg/L	Low concentration of dissolved salts
pH	8.5	S.U.	Water is slightly alkaline
Alkalinity	95	mg CaCO ₃ /L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	1.41	ug/L	Low algae production

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	50	moderately eutrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	34	meso-oligotrophic

Conclusions

- Conditions are good for fish growth.
- Minimum dissolved oxygen is adequate for good fish production.
- pH is within acceptable limits.
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