Customer	Waterbody	Sample Information		
Missaukee Lake	Lake Missaukee	Date: 4/15/2024		
		Site: Site #1		

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved O mg/L	xygen %		Dissolve	ed Oxyger	n (mg/L)
0	11.2	10.8	99	0	5	10	15
1	11.2	10.9	99				
2	11.1	10.9	99	Ê 1			Temperature
3	11.0	10.9	99	t c			
4	10.9	10.9	99	Depth 5			Dissolved
5	10.3	11.0	98	□ ⁵]			Oxygen
Secch	i Disk Depth	5.7 meters		0	10	20	30
Therm	nocline Depth	meters			Temper	rature (C)	

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli		CFU/100 mL	N/A
Conductivity	202	uS/cm	
Total Dissolved Solids	131	mg/L	Low concentration of dissolved salts
рН	8.4	S.U.	Water is slightly alkaline
Alkalinity	98	mg CaCO3/	LWater is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	N/A	ug/L	

	TSI Trophic Status
Based on Secchi Disk Depth	35 meso-oligotrophic
Based on Total Phosphorus	28 oligotrophic
Based on Chlorophyll	N/A

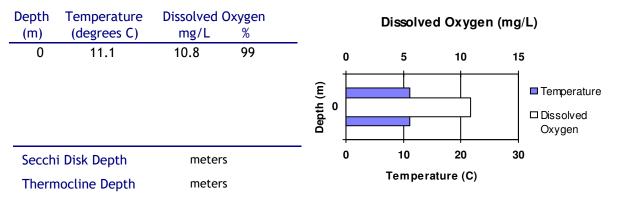
- Conditions are good for fish growth.
- Minimum dissolved oxygen is adequate for good fish production.
- pH is within acceptable limits.
- Phosphorus and Nitrogen are within acceptable limits.
- REPEAT LakeCheck Soon!!
- WARNING, condition requires immediate attention.
- CAUTION, condition requires 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
Missaukee Lake	Lake Missaukee	Date: 4/15/2024
		Site: Site #2

On-Site Results



Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli		CFU/100 mL	N/A
Conductivity	201	uS/cm	
Total Dissolved Solids	130	mg/L	Low concentration of dissolved salts
рН	8.4	S.U.	Water is slightly alkaline
Alkalinity	101	mg CaCO3/	LWater is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	N/A	ug/L	

	TSI Trophic Status
Based on Secchi Disk Depth	N/A
Based on Total Phosphorus	28 oligotrophic
Based on Chlorophyll	N/A

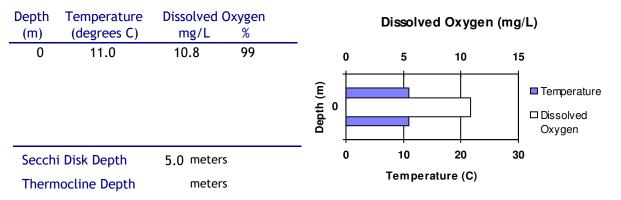
- Conditions are good for fish growth.
- Minimum dissolved oxygen is adequate for good fish production.
- pH is within acceptable limits.
- Phosphorus and Nitrogen are within acceptable limits.
- REPEAT LakeCheck Soon!!
- WARNING, condition requires immediate attention.
- CAUTION, condition requires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

Notes

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Customer	Waterbody	Sample Information		
Missaukee Lake	Lake Missaukee	Date: 4/15/2024		
		Site: Site #3		

On-Site Results



Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli		CFU/100 mL	N/A
Conductivity	201	uS/cm	
Total Dissolved Solids	131	mg/L	Low concentration of dissolved salts
рН	8.4	S.U.	Water is slightly alkaline
Alkalinity	102	mg CaCO3/	LWater is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	N/A	ug/L	

	TSI Trophic Status
Based on Secchi Disk Depth	37 meso-oligotrophic
Based on Total Phosphorus	28 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 Soon!!
- 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
Missaukee Lake	Lake Missaukee	Date: 7/2/2024
		Site: Site #1

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved mg/L	Oxygen %	Dissolved Oxygen (mg/L)			n (mg/L)
0	21.3	9.1	102	 0	5	10	15
1	21.3	9.1	102	-			
2	21.2	9.1	102	$(\hat{E})_{2}^{0}$			Temperature
3	20.8	9.3	104	ت 2 بي	İ		
4	20.7	9.3	102	Depth			
5	20.6	8.9	99	□ 6]			Oxygen
6	20.5	8.6	95	0	10	20	30
Secchi Disk Depth		3.7 meter	s		Temper	ature (C)	
Therm	nocline Depth	meter	s				

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli		CFU/100 mL	N/A
Conductivity	197	uS/cm	
Total Dissolved Solids	128	mg/L	Low concentration of dissolved salts
рН	8.6	S.U.	Water is slightly alkaline
Alkalinity	84	mg CaCO3/I	LWater is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	1.84	ug/L	Low algae production

	TSI	Trophic Status
Based on Secchi Disk Depth	41	mesotrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	37	meso-oligotrophic

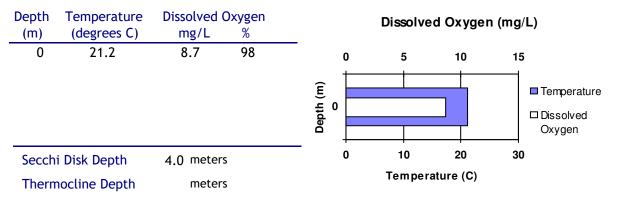
- Conditions are good for fish growth.
- Minimum dissolved oxygen is adequate for good fish production.
- pH is within acceptable limits.
- Phosphorus and Nitrogen are within acceptable limits.
- Repeat LakeCheck in Fall.
- WARNING, condition requires immediate attention.
- CAUTION, condition requires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

Notes

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Customer	Waterbody	Sample Information
Missaukee Lake	Lake Missaukee	Date: 7/2/2024
		Site: Site #2

On-Site Results



Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli		CFU/100 mL	N/A
Conductivity	198	uS/cm	
Total Dissolved Solids	120	mg/L	Low concentration of dissolved salts
рН	8.3	S.U.	Water is slightly alkaline
Alkalinity	79	mg CaCO3/I	LWater is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	2.15	ug/L	Low algae production

	TSI	Trophic Status
Based on Secchi Disk Depth	40	mesotrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	38	mesotrophic

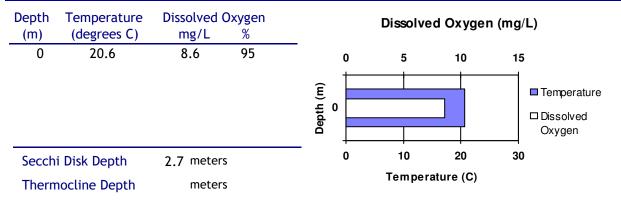
- Conditions are good for fish growth.
- Minimum dissolved oxygen is adequate for good fish production.
- pH is within acceptable limits.
- Phosphorus and Nitrogen are within acceptable limits.
- Repeat LakeCheck in Fall.
- WARNING, condition requires immediate attention.
- CAUTION, condition requires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

Notes

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Customer	Waterbody	Sample Information
Missaukee Lake	Lake Missaukee	Date: 7/2/2024
		Site: Site #3

On-Site Results



Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli		CFU/100 mL	N/A
Conductivity	199	uS/cm	
Total Dissolved Solids	129	mg/L	Low concentration of dissolved salts
рН	8.6	S.U.	Water is slightly alkaline
Alkalinity	82	mg CaCO3/I	-Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	13.1	ug/L	High algae production

	TSI	Trophic Status
Based on Secchi Disk Depth	46	mesotrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	56	eutrophic

- 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
Missaukee Lake	Missaukee	Date: 9/3/2024
		Site: Site 1

On-Site Results

Depth	Temperature	Dissolved O	xygen	Dissolved Oxygen (mg/L)		/L)			
(m)	(degrees C)	mg/L	%					· _ /	
0	21.8	8.7	99	0		5	10	15	5
1	21.9	8.6	99	0 t		-			
2	21.8	8.6	98	Ê Î					Temperature
3	21.8	8.5	97	- 2 		1			
4	21.7	7.9	90	Depth		<u> </u>			Dissolved
5	21.6	7.2	82	□ 6]		1			Oxygen
6	21.4	0.6	7	0		10	20	30)
Secch	i Disk Depth	3.0 meters			Те	emperatu	ure (C)		
Therm	nocline Depth	meters							

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli		CFU/100 mL	N/A
Conductivity	191	uS/cm	
Total Dissolved Solids	124	mg/L	Low concentration of dissolved salts
рН	8.2	S.U.	Water is slightly alkaline
Alkalinity	86	mg CaCO3/	LWater is soft
Total Phosphorus	13	ug/L	Moderately phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	2.37	ug/L	Low algae production

	TSI	Trophic Status
Based on Secchi Disk Depth	44	mesotrophic
Based on Total Phosphorus	37	meso-oligotrophic
Based on Chlorophyll	39	mesotrophic

- 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

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Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee	Date: 9/9/2024
		Site: Site 2

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved C mg/L	xygen %		D)issolved	l Oxyger	ı (mg/L)
0	21.2	8.8	99	Depth (m) 0		5	10	15 Temperature Dissolved Oxygen
	i Disk Depth Iocline Depth	3.0 meters meters		(D .	10 Temperat	20 ture (C)	30

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli		CFU/100 mL	N/A
Conductivity	190	uS/cm	
Total Dissolved Solids	124	mg/L	Low concentration of dissolved salts
рН	8.2	S.U.	Water is slightly alkaline
Alkalinity	96	mg CaCO3/	LWater is soft
Total Phosphorus	5	ug/L	Not phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	3.08	ug/L	Low algae production

	TSI	Trophic Status
Based on Secchi Disk Depth	44	mesotrophic
Based on Total Phosphorus	23	oligotrophic
Based on Chlorophyll	42	mesotrophic

- 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.

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Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee	Date: 9/9/2024
		Site: Site 3

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved C mg/L)xygen %		D	issolved	l Oxyger	ı (mg/L)
0	20.8	8.8	99	Depth (m) 0		5	10	15 Temperature Dissolved Oxygen
	Disk Depth ocline Depth	3.0 meters meters			0	10 Temperat	20 ture (C)	30

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli		CFU/100 mL	N/A
Conductivity	193	uS/cm	
Total Dissolved Solids	125	mg/L	Low concentration of dissolved salts
рН	8.2	S.U.	Water is slightly alkaline
Alkalinity	92	mg CaCO3/	LWater is soft
Total Phosphorus	5	ug/L	Not phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	1.71	ug/L	Low algae production

	TSI	Trophic Status
Based on Secchi Disk Depth	44	mesotrophic
Based on Total Phosphorus	23	oligotrophic
Based on Chlorophyll	36	meso-oligotrophic

- 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.

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