

August 8, 1996

Ron Martin Department of Natural Resources P.O. Box 7921 Madison, WI 53707



Ron:

Here are the artificial substrate sampler monitoring sheets for the two checks I have done this year (July 9 & Aug. 7). As you can see, as of July 9, none of the five samplers had visible zebra mussels. But the Aug. 7 check revealed a much different result. Two of the five substrates had zebra mussels colonized on them. They were all small mussels, from 1mm or less, to 4mm or so.

Other data that I have that may interest you is that veliger sampling done on June 19 came back as the following: West Basin: negative; Narrows: zero positive; East Basin: 11per cubic meter. Another sample was taken July 10, but the results are not yet in.

I have also enclosed a map of Geneva Lake on which I have indicated substrate locations and where the zebra mussels have been discovered this summer, along with the veliger sampling locations.

I believe that these discoveries are of great interest to professionals researching zebra mussels. From my summer research, Geneva Lake seems to have an established population of zebra mussels, with both adults, and veligers. The interesting and unique thing I find is that this only seems to be in the eastern basin (east of narrows). I believe that Geneva Lake's zebra mussel population provides an interesting opportunity to study colonization, and colonization impacts on an inland lake. I only wish that I had more time than just this summer internship to do so. I hope you would consider Geneva Lake as a possible area for further zebra mussel research.

Finally, would it be possible to get five more of the substrate samplers? As the map indicates, there is a large gap around the narrows where we were unable to place samplers. Locations in this area would give some valuable information about the extent of the zebra mussel infestation westward. Please call and let me know if this is possible. Thank You!

PATRICK SCHMALZ

Geneva	See below	16,17 E	Linn	1.2 N
LAKE	SECTION	RANGE	TOWN	TOWNSHIP

This is the only hydrographic map of this lake available, produced from original charts of Dept. of Natural Re-

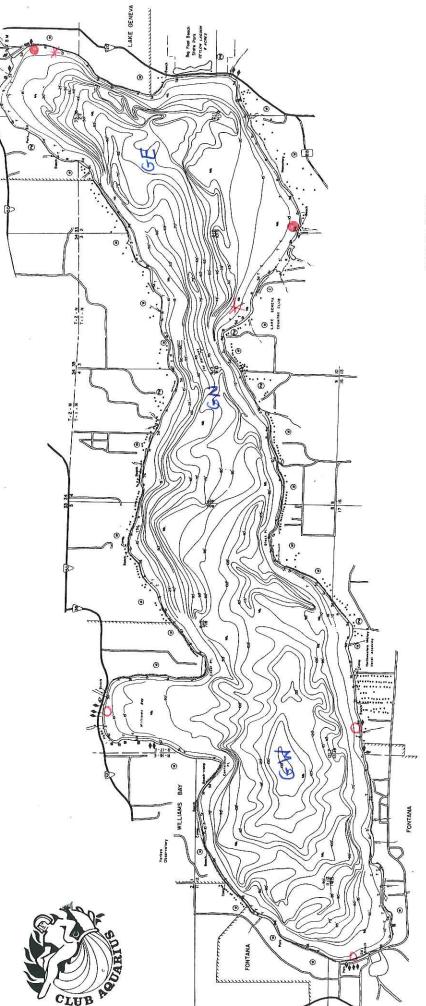
A U. S. Geological Survey Map is available from us show-ing the area (approx. 12 square miles) adjacent to this lake. Delavan & Lake Geneva Sections: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 jo order specify — 11, 12, 13, 14, 17, 18, 35, 36

Map No.

WALWORTH COUNTY







rebramussels bound 8-7-96 Key O Artificial Substrate Located. · Articial Substrate where

WAX. DEPTH 135 FEET AREA 5262.4



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4	Inobauda	L				L	×	Н
9						_		П
SPECIES OF FISH		Muskie	N. Pike	Wolleye	L.M. Bos	S.M. Bos	Ponfish	Trout

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TOPOGRAPHIC SYMBO	Brush	Partially wooded	Wooded	Cleared	Pastured	Agricultural	danch Corp.		Deelling	Resort	
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POGRAPH	TOPOGRAPHIC SYMBOLS	•		
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paped	4	Morsh		LAKE
parea	1	Spring		P. Peat
stured	ţ	Intermittent stream	Stream	Mk,Muck
gricultura	1	A Agricultural	let	C. Clay
B.M. Bench Mark	1	Permonent outlet	rete.	M. Mor!
Dwelling	-}			Sd. Sand St. Sitt

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	83
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Gortow 57480LS
Gr. Grevel 6* Stumps & Snog:
R. Rubble
Br. Bedroch
T Submergent vegetation
L Emergent vegetation
A Floating vegetation

Boat Livery

* Other 1996 Zebra mussels found

Geneva West Brooin sample site

Geneva Norrows sample site

East Basin Samplesite GE GE

Phase I: Zebra Mussel Monitoring Report

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Name: Patrick Johnalz - Geneva Lake Envir. Agey.
Address: Po. Box 200 Huy 67
City: Fontana State: WI Zip: 53125
Phone Number: (414) 275-6310
Monitoring Location
D. Lee a.
Date: 8-13-96 Time: 1300
County: Walworth City: Lake Geneva
Body of Water: Geneva lake
Nearest Landmark (town, highway, boat ramp, bridge): Stone Manor (12 mile
west of Lake Geneva city boat ramp)
Distance from nearest landmark:
Habitat Type: River/Stream Natural Lake/Pond X Marsh/Swamp
Canal/Ditch Man Made Reservoir Estuary/Bay
Describe exactly how the zebra mussels were found (what were they attached to
or other comments): - Found attached to Milfoil while taking Eckman Samples
(2-9 in depth)
- Found I attacked to Chara sp.
T 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
* larger murrels seem to be attached to stem; smaller on leaflets
Wasternam Paralles
Monitoring Results
Total number of mussels found: 59
Size of the largest mussel (in mm): 19 mm
Size of the smallest mussel (in mm):

If greater than 20 mussels are found measure 20 mussels chosen randomly from the sample. If less than 20 mussels are found measure all mussels found. Report results in table below.

Number	Length (mm)	Number	Length (mm)
1	5mm	11 .	2 mm
2	2mm	12	Imm
3	13 mm	. 13	2 mm
4	3 mm	14	1.5 mm
5	4 mm	15	Imas
6	3 mm	16	Imm
7	3 min	17	2 mm
8	1.5 mm	18	1 may
9	2 mm	19	2 mm
10	2 mm	20	Imar

NOTE: All samples should be placed in isopropyl or rubbing alcohol until verification is obtained.

Phase I: Zebra Mussel Monitoring Report

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LET	201	a L	Da	Ca

Name: Patrick Schmal - Geneva Lake En	vir. Agey.	
Address: P.O. Box 200 Hwy 67		
City: Fontana	State: WI	Zip: 53125
Phone Number: (414) 275-6310		
Monitoring Location		
Date: 8-13-96 Time: 18 County: Walnuth City: L	1200	as:
County: Walnuth City: L	ahe Geneva	
Body of Water: Come / he		
Nearest Landmark (town, highway, boat is west of city of L.G. Ramp		derman's - Nishore
Distance from nearest landmark: \ \ \to	15 miles	
Habitat Type: River/Stream Natura		Marsh/Swamp
Canal/Ditch Man Ma	ade Reservoir	Estuary/Bay
Describe exactly how the zebra mussels	were found (what we	ere they attached to
or other comments):		
- caught in Eckman grab	sample - attache	ed to melfoil
	- attached of	o Ruppia Marthus
	# - 1 - 10 - 10 - 10 - 10 - 10 - 10 - 10	
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Monitoring Results		
minut	9	
Total number of mussels found:	4 100	
Size of the largest mussel (in mm):		
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2	lmm	12	
3	4mm	. 13	
4	3 mm	14	
5	2 mm	15	
6	2 mm	16	
7	3 mm	17	
8	2 mm	18	
9	Imm	19	
10		20	

NOTE: All samples should be placed in isopropyl or rubbing alcohol until verification is obtained.

Phase I: Zebra Mussel Monitoring Report

Personal Data
Name: Patrick Schmolz-Geneva Lake Envir. Agry Address: Hwy 67 PO Box 200 City: Fontano State: WI Zip: 53125
City: Fontano State: WI Zip: 53125 Phone Number: (414) 275-6310
Monitoring Location
Date: 8-13-96 Time: 11:50a
County: Walworth City: L. Geneva
County: Walworth City: L. Geneva Body of Water: Geneva Cake Nearest Landmark (town, highway, boat ramp, bridge): - Lake Geneva: Country Club - South shore
Distance from nearest landmark: Habitat Type: River/Stream Natural Lake/Pond X Marsh/Swamp Canal/Ditch Man Made Reservoir Estuary/Bay Describe exactly how the zebra mussels were found (what were they attached to or other comments):
- Found in Eekman Grab Sample
·
Monitoring Results
Total number of mussels found: Size of the largest mussel (in mm): Size of the smallest mussel (in mm):

If greater than 20 mussels are found measure 20 mussels chosen randomly from the sample. If less than 20 mussels are found measure all mussels found. Report results in table below.

Number	Length (mm)	Number	Length (mm)
1	4 mm	11 .	
2	1 mm	12	
3		. 13	
4		14	
5		15	
6		16	
7	*	17	
8	¥	18	
9	Y	19	П
10	9.000	20	

NOTE: All samples should be placed in isopropyl or rubbing alcohol until verification is obtained.