Snapshot Day 10/7/08 Data (Salt Front RM 63.4)) RIVER MILE 300

Henderson Lake/Hudson River Sarah Fink, Minerva Central School District 9 -12th graders, 20 students 44°05.5135' N, 74°03.5894'W



Photo taken at the Lake Henderson dam where the outflow forms the Hudson River.

This part of the lake is about 500 ft. wide.

Location: Hudson headwaters at Calamity Brook and Lake Henderson, Newcomb, NY **Area:** Adirondacks New York

Surrounding Land Use: Forested 90%; Beach 5% (about .5 mi upriver from sampling site is a small beach/kayak site; 5% Industrial/Commercial – site includes some historic alteration from mining operations throughout the 1900's - the mining (iron) site is at Tahawus, where a dam used to support a small lake,.

Sampling Site: Heavily forested, collected wood and debris from fallen trees has been caught in the rocks, .5 mi upriver is a small concrete dam that is the outflow of Lake Henderson.

Plants in area: The shoreline is planted with trees, shrubs and flowers.

Water depth: maximum depth 58 cm, average depth across profile is 43.8 cm

River Bottom –rocky

Plants in water – 5% protruding grasses along shoreline in some places.



ITEM	Time	Reading 1	Reading 2	Comments		
Physical Physical						
Air Temperature	9:00 AM	46° F	12:55 PM	60° F		
All Temperature	9.00 Alvi	7.8° C	12.33 F WI	15.6° C		
W. 10 1	0.00.434		X7 · 11	13.0 C		
Wind Speed	9:00 AM	0-5 kts	Variable			
Cloud Cover	clear					
Weather yesterday	Some rainfall on the morning before measurement. Night-time					
	temps. Have been in the 30's-40's F. Frost on the ground the					
***	morning of measurements.					
Water Temperature	9:00 AM	6.1° C	6.1° C			
		43 ° F	43 ° F			
	12:45 PM	6.7° C	7.2° C	7.8° C		
		44 ° F	45 ° F	46 ° F		
Water surface	Water movement is swift over many rocks					
Turbidity	9:00 AM	0 cm				
Large sight tube						
Chemical						
DO	9:00 AM	7 mg/L	Temp 6.1° C	57% saturated		
(ampules)		shallow pool				
	% saturation is quite low, no plants in water so O2 source is					
	aeration.					
pН	Time	pH Paper	Universal Ind.			
			Soluiton			
	9:00 AM	5.0	5.0			
Phosphate	9:00 AM	No color	0.0 mg/L			
_		change in test				
Nitrate	9:00 AM	No color	0.0 mg/L			

		change in test					
Alkalinity	n/a						
Salinity	Time	Method	Reading				
•	9:00 AM	Chloride strips	No reading				
Fish Catch	Number	Species		Minnow traps			
	Caught						
Dip Nets	1	Dragonfly					
		nymphs					
	2	Damselfly					
		Nymphs					
	3	Mayfly					
		Nymphs					
	4	Stonefly					
		Nymphs					
Currents	1300cm/60	22.17cms/sec.	*South	0.44 kts.			
	secs						
*NON TIDAL	Measured fr	Measured from river center but there is not an even profile					
SECTION OF		across the river so rocks in the center probably slowed					
HUDSON		movement. Water too cold for 2 nd trial					
Other Items	Garter snake	Garter snake along shore					
Almanac Entry	MCS studen	MCS students enjoyed a day in our outdoor classroom.					
	Although th	Although the weather and water were cold, the students took					
	the opportunity to wear boots, waders and gloves to take wate samples and search for macroinvertebrates. Students remarked						
		about the clarity of the water and the overall peacefulness of					
		the scene, and about how grateful they are to call this end of					
	the Hudson	the Hudson "home:.					