## Snapshot Day 10/2/07 Data (Salt Front RM 78.2) RIVER MILE 300

## Henderson Lake/Hudson River Sarah Fink, Minerva Central School District 10-12<sup>th</sup> graders, 10 students 44°05.467' N, 74°03.353'W

**Location:** Outflow of Henderson Lake and Calamity Brook.

Area:

**Surrounding Land Use:** Forested 100%; Interesting to note that ½ mile downstream is the mining (iron) site at Tahawus, where a dam used to support a small lake, and ½ mile upstream is a dam at Henderson Lake

**Sampling Site:** Covered with vegetation – brush and trees, some driftwood on shoreline,

rocks

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

Water depth: 5cm in shallows to 150 cm in deep pools

River Bottom -rocky

**Plants in water** – none – only aquatic vegetation is a small amount of algae on the

exposed rocks near shore

ITEM	Time	Reading 1	Reading 2	Comments		
Physical						
Air Temperature	9:45 AM	60° F				
•		15.5° C				
Wind Speed	9:45AM	4-6 kts	Variable			
_			direction			
Cloud Cover	overcast					
Weather yesterday	Fairly cloudy to clear last 3 days, all temps in high 60's					
Water	9:45 AM	15.2° C		All 3 trials the		
Temperature		59.4 ° F		same		
	10:05 AM	15.4° C		All 3 trails the		
		59.7 ° F		same		
Water surface	Water choppy due to gradient not wind distrubance					
Turbidity	Found unlimited transparency to the water, even with a large					
Large sight tube	sight tube. The water had very little sediment					
Chlorophyll	Time	Chla/ug/L	Pheo ug/L	Location		
Sample run by	9:45 AM	1.03 ug/L	0.90 ug/L	Upper Hudson		
Darrin		2.14 ug/L	1.21 ug/L	River		
Freshwater						
Institute						
Chemical						
DO	10:05 AM	7 mg/L	Temp 15° C	70% saturated		
(ampules)		shallow pool				

	10:05 AM	10 mg/L	Temp 15° C	95% saturated
		deep pool		
pН	Time	Acid Rain	Universal Ind.	pH test strips
		Paper	Soluiton	
	10:15 AM	5.5	6.0	6.2
Phosphate	10:30 AM	No color	0.0 mg/L	
		change in test		
Nitrate	10:30 AM	No color	0.0 mg/L	
		change in test		
Alkalinity	n/a			
Salinity	Time	Method	Reading	
•				
Fish Catch	Number	Species		Minnow traps
	Caught	_		_
Kick nets &	2	Dragonfly	Spent 30 minutes looking but it	
overturning rocks		nymphs	was a relatively, deep, fast-	
			moving area	
Tides				
Currents	5700cm/60	95cms/sec.	South/ebb	114 kts.
	secs			In steep areas
	660cm/60	11cm/sec	South/ebb	13.2 kts
	secs.			in shallower
				areas
Traffic				