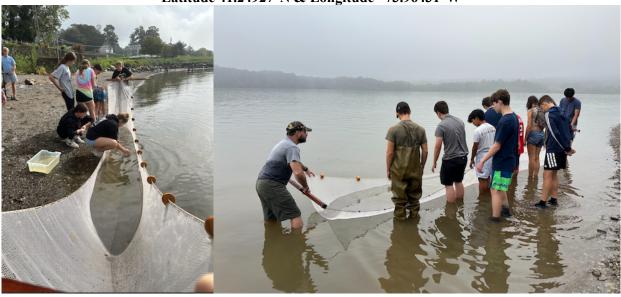
## Day in the Life of the Hudson River 10/05/2023 Verplanck Steamboat Dock, Westchester County, NY RIVER MILE: 41

*Salt Front:* ∼ *52* 

Mahopac High School- Scott Rizzo 33 students, 9<sup>th</sup>-11<sup>th</sup> grade, 3 adults Latitude 41.24927°N & Longitude –73.96431°W



**Location:** Steamboat Dock Park Beach, City of Verplanck, Westchester County, NY **Surrounding Land Use:** 30% Urban/Residential, 35% Beach & 35% Parking Lot

Sampling Site: Beach, pier, riprap & parking lot.

Shoreline: Sandy & Rocky

Water: Calm

River Bottom: Sandy & Rocky

Plants in the water: 10% Water Chestnuts

\*NR = Not read/recorded

**NOTE**: Lots of Spotted Lantern Flies noted during sampling

ITEM	Time	Reading		Comments			
Physical							
Air Temperature	10:42 AM	20°C	68 ° F				
_	11:13 AM	21.17°C	71 ° F				
Wind Speed:		Anemometer	Beaufort	Direction			
	10:42 AM	1 mph	1				
Weather today	8:45 AM	>75% Cloud Cover	No Rain				
	10:44 AM	26-50% Cloud					
		Cover					
	11:19 AM	26-50% Cloud Cover					
Weather the past 3	Sunny, fog	Sunny, fog					
days:	, o						
Tides- Tide Stick	Time	Rising, Falling, Unchanged	Height (cm)				
	9:49 AM	-	62.5 cm				
	10:06 AM	Rising	73.4 cm				
	10:27 AM	Rising	75 cm				
	10:47 AM	Rising	80 cm				
	11:14 AM	Rising	86 cm				
	11:28 AM	Rising	90 cm				

Current-	urrent- Time		Cm/sec		Knots	No	North/South Ebb/Flood/		Slack	
	10:07 AM 10:30 AM 10:44 AM 11:16 AM		45.7							
			53.34							
			52.4							
			62							
Water Temperature-	9:30 A		20.2°C				3.5°F			
10:15							3.5°F			
		11:10 AM 20.9°C				69.6°F				
Turbidity- Long Sight	9:46 A		28.9 cm							
Tube (120 cm)			28.6 cm							
	11:28	AM	23 cm							
				1	Chemic			T		
Standardized Salinity-	High	9:30			ppm Cl-		96 ppm TS	1.7 ppt -4.6 units		Read @ LDEO
Range Quantabs			863 ppn		• •	1,5	59 ppm TS	1.6 ppt -4.4 units		Read @ Norrie
Student Salinity- Meter	/Probe				0 ppm			1.4 p		
			5 AM 1,400 ppm				1.4 p			
					0 ppm			1.5 ppt		0/
<b>DO</b> – Hach Drop Count Kit		9:30 A					ppm DO			% saturation 90%
								8 ppr		90% 42%
					20.2°C			4 ppm 10 ppm		116%
nH Color Match Kit		9:30						10 pp	)111	110/0
pii – Color Maich Kil	<b>pH</b> – Color Match Kit		AM 8							
Niturator		9:30	0							
			5 AM 0 mg/l							
		11:10			_					
DI I				o mg/i						
Phosphates-		10:15 11:10								
ATT 10 00				0.24 mg/l						
Alkalinity-		9:30		100 mg/l						
Iron (Fe)-		10:15		0.4 mg/l						
		11:00	AM		mg/l					
					Biologic	cal				
Fish-Seine (3 Hauls)		Number		Name			Lengi	th of longest	Notes	
			203	203 Atlantic Silver		erside	side 8.5 cm		m	*Some Atlantic
			7	Strip	ed Bass			11.4	cm	Silversides had
										anchor worms
Fish Totals		тот	AT.	Direc						with egg sacs
Fish Totals		TOT. 210	AL:	Diversity: 2						
Macroinvertebrates		Num	hor	Name			Lengi	th of longest		
114 CI VIII VEI LEVI ALES		1 Tuill	<i>7</i> 61	1 4 WM				Lengi	oj iongesi	
Macroinvertebrate Totals		TOT	AL: 0	Diversity: 0						
		Time		Oxid H <sub>2</sub> S Oil		Oil	Grain Size		Other Features	
				Top		nell				
				No	No	0	No		dant: mud	Common: brick
									non: sand,	
								grave	el & pebbles	

Boats							
Commercial/	Time	Name	Color	Color Southbound/			
Recreational				Northbound	Loaded		
Commercial	9:51		Blue/White	Northbound	Light		

Commercial	11:34		White/Green	Northbound	Loaded
Recreational	9:35		White	Southbound	Light
Recreational	10:12	Flying High	White	Southbound	Light
Recreational	10:46	, 6 6	White	Northbound	Light
Recreational	10:51		White	Northbound	Light
Recreational	11:04		Grey	Northbound	Light
Recreational	11:07		Blue	Southbound	Light