

Day in the Life of the Hudson River 10/14/21

STEAMBOAT DOCK, VERPLANCK

RIVER MILE: 41

Salt Front: ~ RM 49

Mahopac High School- Scott Rizzo, Trisha Johnson, and Bob Connick

35 students, 9-12th grade

Latitude 41.24936 N & Longitude – 73.936474 W

Location: Steamboat Dock Park beach, City of Verplanck in Westchester County

Area: located in a small cove, parking lot with beach access to the Hudson

Sampling Site: Pier, parking lot, beach, riprap, pipe entering the water

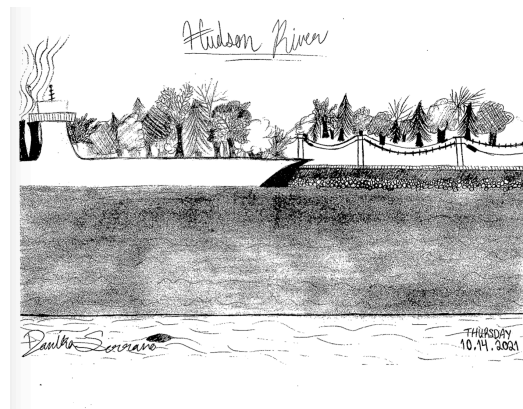
Surrounding Land Use: 30% Urban/Residential, 35% Beach, 35% Parking lot

Shoreline: Sandy, rocky

Plants in area: no plants in water

Other: No plants in water but water chestnut seeds

River Bottom – Sandy, rocky



River Bottom – Sandy, rocky					
ITEM	Time	Reading			Comments
Physical					
Air Temperature	9:59 AM	19° C		66° F	
Wind Speed:	9:59 AM	0-4 mph		Beaufort 2	
Weather today	10:03 AM- partly cloudy (26-50%), no rain				
Weather the past 3 days:					
Tides- tide stick	Time	Rising, Falling, Unchanged		Height (cm)	
	9:44 AM	-		94 cm	
	10:01 AM	Falling		91 cm	
	10:18 AM	Falling		89 cm	
	10:34 AM	Falling		85 cm	
	10:52 AM	Falling		77 cm	
	11:10 AM	Falling		63 cm	
	11:27 AM	Falling		59 cm	
Current-	Time	*Cm/sec	Knots	North/South	Ebb/Flood/Still
*These currents are very fast. Potentially an error noted by teacher.	9:53 AM	200	3.89	South	Ebb
	10:15 AM	400	7.78	South	Ebb
	10:18 AM	580	11.27	South	Ebb
	10:45 AM	463	9	South	Ebb
	11:43 AM	400	7.78	South	Ebb
Water Temperature-	10:00 AM	20.2° C, 20.3° C		68.4° F, 68.5° F	
Turbidity- Long sight tube	10:15 AM	27cm, 37cm, 30cm,			Avg: 31cm
	10:32 AM	37cm, 26cm, 24cm,			Avg: 29cm
	11:15 AM	18cm, 20.2cm, 24cm,			Avg: 20.6cm
Chemical					
Salinity- Meter	10:03 AM	0.5 ppt		500 ppm	
	10:31 AM	0.5 ppt		500 ppm	
DO –	Time	Temp		ppm DO	% saturation
	10:10 AM	22.2° C		9	100%
	10:15 AM	22.3° C		8	92%
pH –	10:00 AM	7.5			
	10:45 AM	7.5			
	11:45 AM	7.5			

<i>Alkalinity- Kit</i>	10:00 AM 10:45 AM 11:17 AM	111 ppm 100 ppm 100 ppm	
<i>Nitrate- Kit</i>	10:45 AM	0.55 ppm	
<i>Phosphate- Kit</i>	10:45 AM	0.58ppm, 0.69 ppm,	Avg: 0.635 ppm
Biological			
<i>Fish- traps</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i> <i>Length of smallest</i>
9:45 AM	90	Atlantic Silversides	8cm 4 cm
10:00 AM	6	Striped Bass	7 cm 5 cm
10:15 AM	8	Herring	9.5 cm 6 cm
10:30 AM	1	Bluefish	13 cm
11:15 AM			
11:30 AM			
Fish Totals	TOTAL: 105	Diversity: 4	
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i> <i>Length of smallest</i>
Macroinvertebrate Totals	TOTAL: 0	Diversity: 0	
Sediment Core			
	H2S smell	Oxid Top	Oil Grain Size Other Features
10:34 AM			Abundant: clay, mud, sand, gravel, pebbles Abundant: brick Common: shells, honey suckle, water chestnut Rare: wood, oyster shells, mussel shells
Boats			
	Time	Name	Color North/Southbound Light/Loaded
Commercial	9:49 AM	RTC-102	Red/Black North Loaded
Recreational	10:00 AM 10:06 AM	Rec Boat Sail	Black Red North South Light Light