

Day in the Life of the Hudson River 10/13/22
Nutten Hook Unique Area
RIVER MILE: 124.5
Salt Front: ~RM 76
Averill Park High School– Elena Oldendorf
52 students & 9 adults
Latitude 42.37°N & Longitude – 73°W



Location: Nutten Hook Park, Green County, NY

Area: NR

Sampling Site: Beach, forested bluff, large marsh behind the bluff, DEC public access, used for picnics, water access after walking down to the beach area

Surrounding Land Uses: Forested; Beach

Shoreline: Beach that is 40% sandy, 40% muddy and 20% rocky

River Bottom: Muddy and sandy

Water: NR

Plants in the Water: Water Chestnuts

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature-</i>	11:00 AM	17°C	62°F	
<i>Wind Speed:</i>	11:07 AM	<i>Anemometer</i> 0-1 mph	<i>Beaufort</i> 1	<i>Direction</i> S
<i>Weather today</i>	11:09 AM	>75% cloud cover	Drizzle	
<i>Weather the past 3 days:</i>	Dry			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>
	11:00 AM- 11:33 AM	Falling		19 cm 5 cm
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
		7.6 13.3	NR	NR
<i>Water Temperature-</i>	11:20 AM 12:20 PM	16.5°C 16.8°C	61.7°F 62.2°F	
<i>Turbidity- Long Sight Tube (120 cm)</i>	12:05 PM 12:04 PM	42.55 cm 47.25 cm	Average 44.9 cm	
Chemical				
<i>Salinity-Meter/probe</i>	11:15 AM	50 ppm		
<i>Standardized Salinity – LR Quantabs</i>	10:00 AM	52 ppm		
<i>DO – Meter/probe</i>	<i>Time</i> 11:20 AM	<i>Temp</i> 16.5°C	<i>ppm DO</i> 8 ppm	<i>% saturation</i> 86.5%

	12:15 PM	16.8°C	7.9 ppm	90%	
<i>pH –Meter</i>	11:15 AM	7.225			
<i>Nitrates- NR</i>					
<i>Phosphates- NR</i>					
<i>Alkalinity- NR</i>					
<i>Biological-</i>					
<i>Fish – Kick net</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
<i>10:40 AM-12:00 PM</i>	1 67 2 3 70 1 58 1 20 4 5 3 2	American Eel Herring sp. Bay Anchovy Golden Shiner Spottail Shiner Channel Catfish Banded Killifish Mummichog White Perch Striped Bass Sunfish spp. Pumpkinseed Hogchoker	11.5 cm 41 cm 10.5 cm 13 cm 9 cm	9.5 cm 10 cm 10.5 cm	
Fish Totals	TOTAL: 237	Diversity: 13			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
	4	Blue Crab			
Macroinvertebrate Totals	TOTAL: 4	Diversity: 1			
<i>Sediment Core – @ 42.37 N 73 W</i>					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
NR	NR	Yes	No	Abundant: sand Common: pebbles Rare: clay, mud, gravel	Common: Leaves and shells
<i>Boats- NR</i>					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial					
Recreational					