

**Day in the Life of the Hudson River 10/13/22**

**Chelsea Yacht Club, Wappingers Falls, NY**

**RIVER MILE: 65**

*Salt Front: ~ RM76*

**Wappingers Jr. High School– Rosellen Hardt**

*22 students & 5 adults*

**Latitude 41.553508 N & Longitude – 73.97024 W**



**Location:** Chelsea Boat Launch, Wappinger Falls, Dutchess County, NY

**Area:** Rocky, sandy beach adjacent to the dock.

**Sampling Site:** Pier with beach area, wood bulkhead, grassy, parking lot, shoreline covered in vegetation, riprap shoreline, concrete docking in area.

**Surrounding Land Uses:** 25% Urban/Residential, 15% Forested, 10% Beach, 50% Industrial/Commercial

**Shoreline:** 50% Muddy; 50% Rocky

**River Bottom:** Rocky

**Water:** NR

**Plants in the Water:** None

\*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
<i>Physical</i>					
<i>Air Temperature-</i>	1:04 PM	18.3°C	65°F		
<i>Wind Speed:</i>	1:04 PM	<i>Anemometer</i> Not working	<i>Beaufort</i> 2 mph from chart	<i>Direction</i> NE	
<i>Weather today</i>	9:15 AM	>75% cloud cover	No Rain		
<i>Weather the past 3 days:</i>	Chilly and Rainy				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>	
	9:30 AM 10:15 AM 10:45 AM	Rising Rising		NR	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	10:33 AM 11:44 AM 12:58 PM 1:50 PM	26.22 23.44 29.0 12.5	NR	NR	Ebb
<i>Water Temperature-NR</i>					
<i>Turbidity- Long Sight Tube (120 cm)</i>	11:10 AM	40.3 cm			
<i>Chemical</i>					
<i>Salinity-LR Quantabs</i>	11:00 AM	NR			
<i>Standardized Salinity – LR Quantabs</i>	1:00 PM	52 ppm			
<i>DO – NR – missing a</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>	

<i>stopper in kit</i>					
<i>pH – Color Match Kit</i>		9:40 AM	7.5		
<i>Nitrates- NR</i>					
<i>Phosphates- NR</i>					
<i>Alkalinity- NR</i>					
<b>Biological-</b>					
<b><i>Fish – Seine</i></b>	<b><i>Number</i></b>	<b><i>Name</i></b>	<b><i>Length of longest</i></b>	<b><i>Length of smallest</i></b>	
9:30 AM- 12:00 PM 4 seines	11	Herring spp.	5.5 cm	4.5 cm	
	2	Spottail Shiner	8 cm	8 cm	
	7	Banded Killifish	7 cm	6.5 cm	
	2	Atlantic Silverside	6 cm	6 cm	
	8	White Perch	14 cm	10 cm	
<b>Fish Totals</b>	<b>TOTAL: 30</b>	<b>Diversity: 5</b>			
<b><i>Macroinvertebrates</i></b>	<b><i>Number</i></b>	<b><i>Name</i></b>	<b><i>Length of longest</i></b>	<b><i>Length of smallest</i></b>	
	5	Blue Crab (1M, 2F, 2 unidentified)	4.5 cm	2 cm	
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 5</b>	<b>Diversity: 1</b>			
<b><i>Sediment Core –NR</i></b>					
<b>Length</b>	<b>H2S smell</b>	<b>Oxid Top</b>	<b>Oil</b>	<b>Grain Size</b>	<b>Other Features</b>
<b><i>Boats- NR</i></b>					
	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>North/Southbound</b>	<b>Light/Loaded</b>
Commercial					
Recreational					