

Day in the Life of the Hudson River 10/14/22
Pier 1 Lighthouse Museum, Staten Island
RIVER MILE: -4.5
Salt Front: ~ 76
 Dave Scheffler & Curtis High School



30 students & 3 adults
Latitude 40.640951 N & Longitude - 74.073463 W



Location: Pier 1 Lighthouse Museum, Staten Island, NY
Area: Pier with parking lot.
Surrounding Land Use: 100% Urban
Sampling Site: Wood bulkhead, concrete bulkhead, banks altered, riprap
Shoreline: 20% sandy, 30% muddy, 50% rocky.
River Bottom: Rocky
Water : Calm
 *NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	9:35 AM	° C	48° F	
	10:23 AM		51° F	
	11:35 AM		56° F	
<i>Wind Speed:</i>	10:30 AM	<i>Anemometer</i>	<i>Beaufort</i> 1	<i>Direction</i> SE
<i>Weather today</i>	11:30 AM	<51-75% cloud cover	No rain	
<i>Weather the past 3 days:</i>	Was warmer than today!			

Tides-	Time	Rising, Falling, Unchanged		Height (cm)	
	9:30 AM- 10:30 AM 11:30 AM	Set Rising Falling		299.72 cm 335 cm 320 cm	
Current-	Time	Cm/sec	Knots	North/South	Ebb/Flood/Slack
	9:40 AM 10:40 AM 11:40 AM	6.4 3.41 10	1.25 NR 1.94		Flood/Slack Slack Ebb/Slack
Water Temperature-	11:30 AM	17.2 °C		72 °F	
Turbidity- Long Sight Tube	11:30 AM	104.3 cm			
Chemical					
Salinity- Hydrometer	10:30 AM	27 ppt			
Standardized Salinity- NR					
DO – NR	Time	Temp		ppm DO	% Saturation
	NR	22 °C		NR	NR
pH – Color Match Kit					
Nitrates- NR					
Phosphates- NR					
Biological					
Fish – Rod & Reel	Number	Name		Length of longest	Length of smallest
	5 4	Tautog Porgy		45.72 cm 24.13 cm	15.24 cm 20.32 cm
Fish Totals	TOTAL: 9	Diversity: 2		*Note 2 dogfish left by anglers (60.96 & 45.72 cm)	
Macroinvertebrates	Number	Name		Length of longest	Length of smallest
*no small crabs of fish this year. Oyster cages had been vandalized & removed					
Macroinvertebrate Totals	TOTAL:0	Diversity: 0			
Sediment Core					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
NR	No	Yes	NR	Abundant: clay Common: mud, sand	Common: macroinvertebrates, shells, living vegetation
Boats-NR					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial	10:00AM	McAllister Tug	Red	NE	Working
	10:00 AM	Maersk	Light Black, Red,	NE	Loaded
	intermittent	SI Ferry	Orange	NE	passengers
Recreational		Sailboat	White	S	NA

		Fishing Boat	White, Blue	S/driftng	Light
		Fishing Boat	White	North	
Observations	<p>Kids were amazed after pulling water sample up from the bay and discovering how clear the water actually was.</p> <p>From the pier the kids observed brownish dark color to the water, mostly due to the muddy brown bottom at our test site. This was also enhanced by the overcast day. It appeared that we could see deeper into the long site tube than from the pier itself. The dock is also 7 feet above the water at high tide.</p>				