

Day in the Life of the Hudson River 10/05/2023

Valentino Pier, Red Hook, Brooklyn, NY

RIVER MILE: -2.3

Salt Front: ~ RM 52

BNS/PS146 -Barbara Taragan & Damaris Roblero

48 students, 4th grade, 11 adults

Latitude 40.678656°N & Longitude -74.018311°W



Location: New York Harbor, Valentino Pier, Red Hook, Brooklyn, NY

Surrounding Land Use: 50% Urban/Residential & 50% Industrial/Commercial

Sampling Site: Pier, Beach, Altered Banks, Wooden & Concrete Bulkhead, RipRap, Pipe entering the water, Covered in Vegetation, Parking lot

Shoreline: 50% Sandy & 50% Rocky

Water: Calm

River Bottom: Muddy, Sandy & Rocky

Plants in the water: No Plants in the water

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	10:17 AM	28°C	82.4°F	
<i>Wind Speed: NR</i>		<i>Anemometer</i>	<i>Beaufort</i>	<i>Direction</i>
<i>Weather today</i>	10:10 AM	<25% Cloud Cover	No Rain	
<i>Weather the past 3 days:</i>	Unusually hot temperatures and sunny			
<i>Tides- NR</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>
<i>Current- NR</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
				<i>Ebb/Flood/Slack</i>
<i>Water Temperature-</i>	10:00 AM	22°C	71.6°F	
	10:30 AM	22°C	71.6°F	
<i>Turbidity- Long Sight Tube (120 cm)</i>	10:00 AM	54 cm		
	10:15 AM	50.7 cm		
	10:30 AM	45.7 cm		
<i>Chemical</i>				
<i>Standardized Salinity- Refractometer</i>	11:07 AM	23,000 ppm	23 ppt	

Student Salinity- Hydrometer	10:10 AM 10:20 AM	22,000 ppm 21,300 ppm	22 ppt 21.3 ppt			
DO – Lamotte Drop Count Kit	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>		
	10:10 AM 10:20 AM 10:30 AM	22°C 24°C 20°C	6 ppm 5 ppm 6 ppm	65% 60% 65%		
pH – Color Match Test Kit	10:05 AM 10:15 AM 10:25 AM	7 7 7				
Biological						
Fish- Seine (1 Haul) & Oyster Cage	Number	Name	Length of longest	Notes		
10:00 AM-10:10 AM	1 1	Porgy (scup) Atlantic Menhaden				
Fish Totals	TOTAL: 2	Diversity: 2				
Macroinvertebrates	Number	Name	Length of longest			
	3 1 2 2 2 1	Harris Mud Crabs Asian Shore Crab Blue Mussel Amphipods Slipper Snails Ctenophore sp.				
Macroinvertebrate Totals	TOTAL: 11	Diversity: 6				
Sediment Core -NR	Time	Oxid Top	H₂S Smell	Oil	Grain Size	Other Features

Boats					
Commercial/ Recreational	Time	Type	Color	Southbound/ Northbound	Light/ Loaded
Commercial	10:07	Ferry	White	Northbound	Loaded
Commercial	10:09	Tugboat	Black	Southbound	Loaded
Commercial	10:10	Ferry	White	Southbound	Light
Recreational	10:15	Yacht	White	Northbound	Light