

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

The Baylander @ W 125th St, NYC

RIVER MILE: 10

Salt Front: ~ 52

P.S. 36-Shari Fine

The Baylander- Scott Koen

14 students, 5th grade, 2 adults

Latitude 40.819303°N & Longitude -73.961445°W



Location: The Baylander (125th St Pier) @ W 125th St, NYC

Surrounding Land Use: 100% Urban/Residential

Sampling Site: Pier, Pipe entering the water

Shoreline: 20% Muddy & 80% Rocky

Water: Calm

River Bottom: NR

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>	10:16 AM	26°C	78.8°F	
	10:27 AM	19°C	66.2°F	
	10:45 AM	20°C	68°F	
<i>Wind Speed:</i>		<i>Anemometer</i>	<i>Beaufort</i>	<i>Direction</i>
	10:16 AM	3.4 knots		South
	10:36 AM	3.6 knots	#2	South
	10:56 AM	3.1 knots		South
<i>Weather today</i>	10:01 AM	26-50% Cloud Cover	No Rain	
<i>Weather the past 3 days:</i>	No rain, warmer than normal			
<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>	10:06 AM	19°C	66.2°F	
<i>Turbidity- Secchi Disk (cm)</i>	10:00 AM	115.57 cm	Avg of all measurements: 124.97 cm	
	10:24 AM	125.1 cm		
	10:45 AM	139.07 cm		

Chemical						
<i>Standardized Salinity- High Range Quantabs – 8.0 QT units</i>	10:08 AM	6,670 ppm total salinity		6.7 ppt TS	3692 ppm Cl-	
<i>Student Salinity- Hydrometer</i>	9:48 AM	13,700 ppm		13.7 ppt	<i>Avg of all salinities: 12.7 ppt or 12,700 ppm</i>	
	9:50 AM	13,300 ppm		13.3 ppt		
	9:53 AM	6,700 ppm		6.7 ppt		
	10:24 AM	12,000 ppm		12 ppt		
	10:27 AM	15,700 ppm		15.7 ppt		
	10:30 AM	12,300 ppm		12.3 ppt		
	10:45 AM	13,300 ppm		13.3 ppt		
	10:48 AM	16,300 ppm		16.3 ppt		
10:51 AM	8,600 ppm		8.6 ppt			
<i>DO – Lamotte Drop Count Kit</i>	<i>Time</i>	<i>Temp</i>		<i>ppm DO</i>	<i>% saturation</i>	
	10:15 AM	19°C		8 ppm	84%	
	10:30 AM	19°C		8 ppm	84%	
	10:50 AM	20°C		9 ppm		
<i>pH – Color Match Kit</i>	10:36 AM	8				
Biological – oyster cages						
<i>Fish</i>	<i>Number</i>	<i>Name</i>		<i>Length of longest</i>	<i>Notes</i>	
Fish Totals	TOTAL: 0	Diversity: 0				
<i>Macroinvertebrates- Oyster Cage</i>	<i>Number</i>	<i>Name</i>		<i>Length of longest</i>		
10:00-10:30 AM	NR	Harris Mud Crabs Blue Crabs Palaemonetes Shrimp Isopods				
Macroinvertebrate Totals	TOTAL: NR	Diversity: 4				
<i>Sediment Core -NA</i>	<i>Time</i>	<i>Oxid Top</i>	<i>H₂S Smell</i>	<i>Oil</i>	<i>Grain Size</i>	<i>Other Features</i>

Boats					
Commercial/ Recreational	Time	Type	Color	Southbound/ Northbound	Light/ Loaded
Commercial	10:10	NYC Rockaway	Gray	Northbound	Loaded
Recreational	10:11	Sailboat	White	Southbound	Light
Recreational	10:32	Yacht	White	Northbound	Light
Recreational	10:36	Sailboat	White/Black	Northbound	Light
Recreational	11:00	Sailboat	White w/ Black stripe	Northbound	Light