

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

Pier 6, Brooklyn Bridge Park, Brooklyn, NY

EAST RIVER MILE: 1.7

Salt Front: ~ RM 52

Brooklyn Technical High School-Diana Lennon

30 students, 12th grade, 3 adults

Latitude 40.6934588N & Longitude -74.0015503°W

Location: Pier 6, Brooklyn Bridge Park, Brooklyn, NY

Surrounding Land Use: 100% Urban/Residential

Sampling Site: Pier, Beach, Concrete Bulkhead

Shoreline: 100% Rocky

Water: Choppy

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>
Physical				
<i>Air Temperature</i>	12:17 PM	23°C	74°F	
	12:22 PM	27.3°C	80.6°F	
	12:28 PM	24.5°C	77°F	
	12:33 PM	22.6°C	73.4°F	
	12:37 PM	23°C	74°F	
	12:38 PM	22.6°C	73.4°F	
	12:43 PM	22.6°C	73.4°F	
<i>Wind Speed:</i>		<i>Anemometer</i>	<i>Beaufort</i>	<i>Direction</i>
	12:25 PM	1.3 mph	1	Northeast
	12:31 PM	6.8 mph	2	Northeast
	12:37 PM	6 mph		
<i>Weather today</i>	12:32 PM	<25% Cloud Cover	No Rain	
<i>Weather the past 3 days:</i>	No Rain, warm, high 70s			
<i>Tides- Tide Chart</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>
	12:17 PM-12:37 PM	Rising		
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
		39	0.759	
		48	0.934	
		29	0.564	
		39	0.759	
				<i>Ebb/Flood/Slack</i>
				Flood
				Flood
				Flood
				Flood
<i>Water Temperature-</i>	12:15 PM	21°C	69.8°F	
	12:28 PM	21.75°C	71.15°F	
	12:38 PM	21.5°C	70.7°F	
<i>Turbidity- Secchi Disk (cm)</i>	12:17 PM	90 cm	Avg: 101.3 cm	
	12:26 PM	90 cm		
	12:36 PM	130 cm		
<i>Small turbidity tube</i>	12:17 PM	0 JTU		
	12:26 PM	0 JTU		
	12:45 PM	5 JTU		
Chemical				
<i>Standardized Salinity- Refractometer</i>	1:03 PM	19,000 ppm	19 ppt	
<i>Student Salinity- Meter/Probe</i>	12:17 PM	21,000 ppm	21 ppt	

<i>Refractometer*</i>	12:17 PM	12,000 ppm	12 ppt	<i>*refractometer seems to be off</i>		
DO – Lamotte Drop Count Kit	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>		
	12:15 PM 12:28 PM 12:38 PM	21°C 21.75°C 21.5°C	5.4 ppm 4.4 ppm 5 ppm	55%		
pH – Color Match Kit	12:18 PM 12:21 PM 12:26 PM	8.5 8.5 8.5				
Nitrates- Nitrate-Nitrogen Test	12:30 PM	2 ppm				
Phosphates-Low Range Comparator	12:30 PM	0.2 ppm				
Alkalinity- Alkalinity Test	12:24 PM	78 ppm				
Biological –Did not fish						
Fish	Number	Name	Length of longest	Notes		
Fish Totals	TOTAL:	Diversity:				
Macroinvertebrates	Number	Name	Length of longest			
Macroinvertebrate Totals	TOTAL:	Diversity:				
Sediment Core -unable to core at this site	Time	Oxid Top	H₂S Smell	Oil	Grain Size	Other Features

Boats					
Commercial/ Recreational	Time	Type	Color	Southbound/ Northbound	Light/ Loaded
Commercial	12:44	Ferry	White & Blue	Northbound	Loaded
Commercial	12:52	Water Taxi	Yellow	Northbound	Loaded
Commercial	12:55	Barge	Brown	Northbound	Loaded
Recreational	12:30	Sailboat	White	Southbound	Light
Recreational	12:52	Speedboat	Blue	Northbound	NR