

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

**Bush Terminal Park, Brooklyn, NY**

**RIVER MILE: -3.7**

*Salt Front: ~ RM 52*

**Sunset Park High School-Katie McCarthy**

**Billion Oyster Project-Shinara Sunderlal**

**48 students, 11<sup>th</sup> grade, 11 adults**

**Latitude 40.654525°N & Longitude -74.018978°W**



**Location:** Bush Terminal Park, Brooklyn, NY. East side of the Hudson River, NY Harbor

**Area:** Old industrial waterfront area surrounding a small marshy bay with a rocky shoreline, by the water, with grassy hills in Bush Terminal Park.

**Surrounding Land Use:** 80% Abandoned Industrial, 20% reestablishing park use

**Sampling Site:** RipRap/rocky shoreline

**Shoreline:** 50% concrete/asphalt; 20% dirt/gravel; 30% grass/trees

\*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	10:08 AM	22.8°C	70°F	
	11:00 AM	21.7°C	70.7°F	
<i>Wind Speed:</i>	10:08 AM	<i>Anemometer</i> 3 mph	<i>Beaufort</i>	<i>Direction</i> South Southeast Southeast
	10:30 AM	3-6 mph		
	NR	4 mph		
	11:00 AM	3 mph		
<i>Weather today</i>	11:00 AM	<25% Cloud Cover	No Rain	
<i>Weather the past 3 days:</i>	No Rain, high 70s			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>
				HT @ 1:44 PM LT @ 7:14 AM
<i>Current- NR</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
				<i>Ebb/Flood/Slack</i>

<b>Water Temperature-</b>	12:47 PM 11:11 AM NR	24°C 21.7°C 21.7°C	75.3°F 71°F 71°F			
<b>Turbidity- Long Sight Tube (120 cm)</b>	NR 10:32 AM 11:09 AM	75.4 cm 93 cm 96.4 cm				
<b>Chemical</b>						
<b>Standardized Salinity- Refractometer</b>	11:30 AM	20,000 ppm	20 ppt			
<b>Student Salinity- Hydrometer Refractometer</b>	10:08 AM 10:30 AM 11:00 AM 10:08 AM	24,500 ppm 23,000 ppm 23,000 ppm 24,500 ppm	24.5 ppt 23 ppt 23 ppt 24.5 ppt			
<b>DO – Chemets Kit</b>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>		
	10:08 AM 10:22 AM 10:54 AM	21°C 21.7°C	10 ppm 8 ppm 8 ppm	96%		
<b>pH – Color Match Test Kit</b>	10:58 AM 12:54 PM NR	7.5 7.5 7.5				
<b>Nitrates- Test Kit</b>	10:33 AM 11:04 AM 12:58 PM	0 ppm 0 ppm 5 ppm				
<b>Biological</b>						
<b>Fish-Seine (1 Haul)</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	<b>Notes</b>		
10:00 AM	1 20 1 1 1	Striped Killifish Atlantic Silverside Lined Seahorse Naked Goby Winter Flounder	3 cm 15 cm 8.2 cm 3 cm 8 cm	Male		
<b>Fish Totals</b>	<b>TOTAL: 24</b>	<b>Diversity: 5</b>				
<b>Macroinvertebrates</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>			
	7 5 15	Blue Crab Hermit Crab Eastern Mud Snail	10 cm 5 cm 2 cm			
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 27</b>	<b>Diversity: 3</b>				
<b>Sediment Core -NR</b>	<b>Time</b>	<b>Oxid Top</b>	<b>H<sub>2</sub>S Smell</b>	<b>Oil</b>	<b>Grain Size</b>	<b>Other Features</b>

<b>Boats</b>					
<b>Commercial/ Recreational</b>	<b>Time</b>	<b>Type</b>	<b>Color</b>	<b>Southbound/ Northbound</b>	<b>Light/ Loaded</b>
Commercial	10:10	Cargo	Brown/Orange	Northbound	
Commercial	10:10	Ferry	Orange	Northbound	
Commercial	10:20	Ferry	White	Northbound	
Recreational	10:20	Sailboat	White	Northbound	
Commercial	11:13	Cargo	Red	West/Southbound	
Recreational	11:15	Fishing Boat	Grey	West/Southbound	
NR	11:18	-	Blue	West/Southbound	
Commercial	11:20	Ferry	Yellow	West/Southbound	

Commercial	12:42	Water Taxi	Yellow	Northbound	
Recreational	12:43	Motorboat	White	-	
Commercial	12:44	Tug Boat	Light Blue	Southbound	
Commercial	12:44	Tug Boat	White	Southbound	
Recreational	12:45	Sailboat	White	Northbound	