

**Day in the Life of the Hudson River 10/16/18 Data**

**79<sup>th</sup> STREET BOAT BASIN**

**RIVER MILE: 7.3**

*Salt Front: ~RM 24*

**United Nations International School- Elke Bergholz**

**45 students 11<sup>th</sup> grade, 5 adults**

**Becky Rowland, Krista Norris, & Maija Neimisto, Clearwater Sloop**

**Starting GPS: 40° 48'44.2" N 73°58'11.5" W**

**Ending GPS: 40° 48' 47.32"N 73° 58' 30.19"W**

**Location:** Sailing on the Clearwater Sloop between 90<sup>th</sup> -95<sup>th</sup> Street, Manhattan, NY

**Area:** Hudson River: between 90<sup>th</sup> and 95<sup>th</sup> on the west side of the river

**Surrounding Land Use:** 60% Urban/Residential; 40% Industrial/Commercial

**Sampling Site:** Hudson River off of the Clearwater Sloop

**Shoreline:** Developed

**Water:** Choppy

**Plants in area:** No plants in water area

**Sample Time Frame:** 1:00 – 4:00 pm

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<b>Physical</b>				
<i>Air Temperature:</i>	2:30 PM	13.3 °C	56 °F	
	2:57 PM	15 °C	59 °F	
	3:33 PM	12.7 °C	55 °F	
	Average:	13.6 °C	56.6 °F	
<i>Wind Speed:</i>	2:30 PM	3.9 mph		
	2:57 PM	9 mph		
	3:33 PM	11.9 mph		
	Average:	8.26 mph		
<i>Weather Today:</i>	Cold and windy; cloud cover 50%-75%			
<i>Water Temperature taken at 2 depths</i>	1 foot depth	20 °C	68 °F	
	3 foot depth	16.67 °C	62 °F	
	3 foot depth	17.22 °C	63 °F	
<b>Turbidity -</b>	2:31 PM	36.9 cm	Avg: 37.95 cm	
	2:36 PM	39 cm		
<b>Chemical</b>				
<i>Salinity-</i>	<i>Time</i>	<i>Hydrometer</i>	<i>Refractometer</i>	
		0-6000 ppm	0 ppm	
<i>DO –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	
			5	
<i>pH –</i>		8, 8, 8.7 Avg: 8.23		
<b>Fish-Trawl: 8 feet</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	Trawl was set from 90 <sup>th</sup> – 95 <sup>th</sup> street on the west side of the river for 8 minutes in 25-30 ft depth
	1	Atlantic Croaker		
	6	Striped Bass	YOY	
	2	Hogchoker		
	1	Alewife	95 mm	
2	Northern Kingfish	100 mm		
	<b>TOTAL: 12</b>	<b>Diversity: 5</b>		
<b>Macroinvertebrates</b>	<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	<b>Sex</b>

		20	Blue Crab	130 mm	Female
		<b>TOTAL: 20</b>	<b>Diversity: 1</b>		
<b>Tides-</b>	<b>Time</b>	<b>Rising, Falling, Still</b>		<b>Height (cm)</b>	<b>Rate of Tidal Change (cm/min)</b>
	1:00 PM 4:00 PM	- Falling		Tidal drop: 8 inches	- .044
<b>Current- *measured in a cove</b>	<b>cm/second</b>	<b>Rising, Falling, Unchanged</b>		<b>Height (cm)</b>	<b>Rate of Change (cm/min)</b>
<b>Currents Flow</b>	<b>Time</b>	<b>North/South</b>		<b>Ebb/Flood/Still</b>	<b>Comments</b>
	1:21 PM 4:15 PM	North South		*Flooding Ebb	*About to turn slack Ebbing Quickly
<b>Boats</b>	<b>Time</b>	<b>Name</b>		<b>North or South</b>	<b>Loaded or Light</b>
Recreational	2:30- 3:33 PM	Caractere, Jing Long 2		Southbound	
<b>Other Observations</b>		Liter floating past the boat: plastic bags, water bottles, wood debris, Styrofoam... etc. Heavy traffic on the Henry Hudson highway on the west side of Manhattan. Lots of people running and riding bikes on the Riverside park.			Seagulls and jumping fish