

**Day in the Life of the Hudson and Harbor 10/22/20**

**JOHN FINLEY WALK, MANHATTAN**

**RIVER MILE: EAST RIVER ~6**

*Salt Front: ~RM 73*

**Manhattan International High School- Ms. Athena Theodoris**

**12 students 12<sup>th</sup> grade, 1 adult**

**Latitude : 40.760024**

**Longitude: -73.956996**



**Location:** East River at John Finley Walk, Manhattan, NY

**Area:** East River at John Finley Walk near Andrew Haswell Park on FDR N around 62nd street, across Roosevelt Island.

**Surrounding Land Use:** 80% Commercial, 20% Urban/Residential

**Sampling Site:** a walking area where people exercise, next to the Ed Koch Queensboro Bridge, near a dog park with some trees in the park. Buildings, hospitals, bushes, trees, garbage in the area. Water used for recreation, and transportation of resources and people.



**Water:** Dark choppy green color

**Plants:** Seaweed on the oyster cage

**East River** has been the receptacle for the city's garbage and sewage

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature:</i>	11:13am	18° C	64° F	Mostly cloudy, air temperature warm.

				Humidity 100%
<b>Wind Speed:</b>	12:00pm	Beaufort: 0	Wind direction South east	No wind
<b>Weather Today:</b>	Mostly cloudy, gloomy with fog , warm feeling even at 64F because of the humidity.			
<b>Weather Previous:</b>	Monday: 51-64 F, cloudy, waxing crescent Tuesday: 58-70 F, cloudy, waxing crescent Wednesday: 60-69 F, mostly cloudy, waxing crescent  In the past three days, it rained once. Rest of the days were warm. Densely foggy especially at night and in the morning			
<b>Tides- used an app</b>	<b>Time</b>	<b>Rising/flood</b>	<b>Height (cm)</b>	<b>Rate of Tidal Change (cm/min)</b>
	12:04 pm	Flood	92.3 cm	
<b>Current-</b>	<b>Cm/second</b>	<b>Knots</b>	<b>North/South</b>	<b>Ebb/Flood/Still</b>
Used an orange and measured the distance in 30 sec.	1280.16 cm/30 secs  42.7 cm/sec	.83 knots	North	Flood
<b>Water Temperature</b> – 37 ft. deep  Digital thermometer	12:02pm	19.7 °C 19.9 °C 19.4 °C	Average - 19.53 °C	
<b>Turbidity - Long site tube</b>	~12:00 pm	120 cm >120cm	Average 120 cm	A bit cloudy with particles inside
<b>Chemical</b>				
<b>Salinity- Hydrometer</b>	12:45 pm	24 ppt 26 ppt 26ppt	Average : 25ppt	
<b>DO –</b>	<b>Time:</b>	<b>Temp</b>	<b>ppm DO</b>	<b>% saturation</b>

<i>La Motte</i>	12:59pm	19.7 C°	6 ppm	
<b><i>pH - pH strips</i></b>	12:29 pm	4		
<b><i>Macroinvertebrate</i></b>	<b><i>Number</i></b>	<b><i>Name</i></b>	<b><i>Length of Longest</i></b>	<b><i>Length of shortest</i></b>
Inverts found in the oyster cages	1	Asian Shore crab		
	1	Sea pill bug (isopod)		
	1	Idotea Isopod		
		(very small) tunicates		
<b><i>Boats</i></b>	<b><i>Time</i></b>	<b><i>Color</i></b>	<b><i>Direction</i></b>	<b><i>Loaded or Light</i></b>
Commercial Double skin 504  	11:49am	Dark boat	From South to north	Loaded
Recreational <b>NYC Ferry</b>  	11:33 am	White with blue bottom border		
<b><i>Other Observations</i></b>	Big Oysters - <b>in the oyster restoration cage</b> Some birds - pigeon, seagulls, flies (from the garbage bin nearby)			