

**Day in the Life of the Hudson River 10/14/21**

**Morris Canal Basin, New Jersey**

**RIVER MILE: 0.5**

*Salt Front: ~ 49*

**Hudson Montessori School- Grace Sanvictores & Michelle Velho**

*61 students (grades 1-6) & 9 adults*

**Latitude & Longitude – Latitude 40.719 N & Longitude – 74.050 W**



**Fiddler Crab!**

**Location:** Morris Canal Park, Jersey City (behind the Colgate clock)

**Area:** A park with a grassy area overlooking Manhattan and a boardwalk with steps which lead to the water behind the Colgate clock.

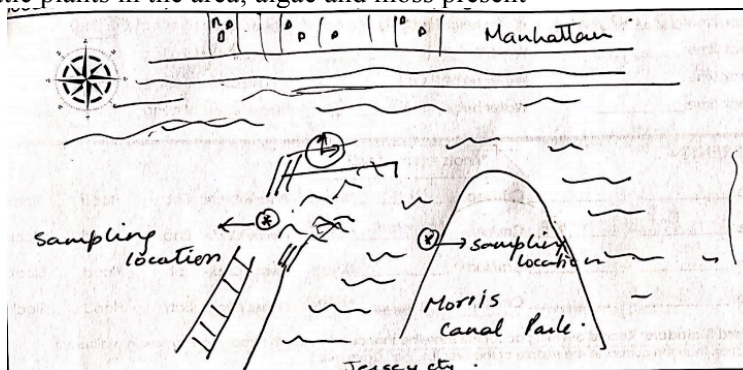
**Surrounding Land Use:** 100% Urban/residential

**Sampling Site:** Pier; grass; riprap (large rocks)

**Shoreline:** 30% Sandy; 70% Rocky

**Water:** Calm

**Plants in area:** No aquatic plants in the area; algae and moss present



\*NR = Not read/recorded

ITEM	Time	Reading		Comments
<i>Physical</i>				
<i>Air Temperature</i>	9:30 AM	26.1 °C	79° F	
	11:00 AM	26.7 °C	80° F	
	12:00 PM	27.8 °C	82° F	
<i>Wind Speed:</i>	10:30 AM	Anemometer 2.5 m/s	Beaufort 1	Direction N
<i>Weather today</i>	12:00 PM	<25% cloud cover	No rain	
<i>Weather the past 3 days:</i>	No rain			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	
	9:45 AM	NR	15 cm	
	11:00 AM	Rising	30 cm	
	12:00 PM	Rising	40 cm	

<b>Current-</b>	<b>Time</b>	<b>Cm/sec</b>	<b>Knots</b>	<b>North/South</b>	<b>Ebb/Flood/Slack</b>
	10:00 AM	NR	NR	South	Ebb
<b>Water Temperature-</b>	10:00 AM 11:45 AM	20° C 20° C		68° F 68° F	
<b>Turbidity- Long Sight Tube</b>	9:45 AM 11:45 AM	30.6 cm (avg) 42.66 cm (avg)		Secchi Disk used 10:30 AM = 39.3 cm (avg)	
<b>Chemical</b>					
<b>Salinity- Hydrometer</b>	10:00 AM 12:00 PM	17.7 ppt (avg) 17 ppt (avg)			
<b>Standardized Salinity- Refractometer</b>	11:30 AM	15 ppt			
<b>DO – Drop Count kit</b>	<b>Time</b>	<b>Temp</b>		<b>ppm DO</b>	<b>% Saturation</b>
	10:00 AM 11:30 AM	20° C 20° C		8 9	90% 100%
<b>pH – Test Stripes</b>	10:00 AM	6			
<b>Nitrates- NR</b>					
<b>Phosphates- NR</b>					
<b>Biological</b>					
<b>Fish -NA</b>	<b>Number</b>	<b>Name</b>		<b>Length of longest</b>	<b>Length of smallest</b>
<i>*did not seine, did a kick net and oyster cage</i>					
<b>Fish Totals</b>	<b>TOTAL:</b>	<b>Diversity:</b>			
<b>Macroinvertebrates</b>	<b>Number</b>	<b>Name</b>		<b>Length of longest</b>	<b>Length of smallest</b>
	1 14 1 1 3 6	Blue Crab Asian Shore Crab Fiddler Crab Shrimp sp. Amphipods Ribbed mussels		1.5 cm 5 cm NR 3.5 cm 1 cm 0.5 cm	2.5 cm 3 cm   NR NR
<b>Macroinvertebrate Totals</b>	<b>TOTAL:26</b>	<b>Diversity: 6</b>			*Blue crab was a male. Fiddler crab was a male. 3 males and 2 female asian shore crabs.
<b>Sediment Core</b>					
<b>Length</b>	<b>H2S smell</b>	<b>Oxid Top</b>	<b>Oil</b>	<b>Grain Size</b>	<b>Other Features</b>
NR	No	No	No	Common: clay, mud, and sand Rare: gravel	Rare: shells mussels
<b>Boats</b>					
	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>North/Southbound</b>	<b>Light/Loaded</b>
Commercial	NR	Barges	NR	Southbound	Loaded
Residential	NR	Liberty Landing Ferry	Yellow	Northbound	Loaded