

**Day in the Life of the Hudson River 10/12/17 Data
(Salt Front ~RM 65)
RIVER MILE -1**

**Governor's Island, Upper NY Bay/Buttermilk Channel, NW side
Christine Jimenez - Urban Assembly New York Harbor School**



**125 students 10th – 12th graders, 3 adults – 4 classes
Latitude N 40.690810- Longitude W -74.021404**

Location: Soisson's Landing , NE Governor's Island – Upper NY Bay
Area: Pier along waterfront of the island, grassy parking lot
Surrounding Land Use: 100% urban, residential
Sampling Site: Pier, shoreline is Rocky, RipRap, Banks Altered, Concrete Bulkhead
Water Area: Bottom rocky, muddy, sandy
Plants in area: 40% algae/seaweed
Water depth: surface samples
Times: Data collected throughout the day
Water: Choppy, green

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	11:25 am 12:06 pm 12:21 pm 1:04 pm 1:17 pm 1:30 pm	17°C 20°C 20°C 20°C 18°C 20°C	Wind Speed:	10.7 mph 8.5 mph 12.3 mph 15.4 mph 9.4 mph 8.5 mph
Cloud Cover	11:25 am 12:06 pm 12:21 pm 1:04 pm 1:17 pm 1:30 pm	Overcast Overcast Overcast Overcast Mostly Cloudy Mostly Cloudy		
Weather today	Rain in early AM			
Weather recently	Some rain over past 3 days			

<i>Water depth</i>	5 meters deep			
<i>Water Temperature</i>	Mid Day	23 °C 20 23 20		Average 21.5
<i>Turbidity – turbidity tube</i>	MidDay	95 cm 43cm 34cm		Average 57.3 cm
<i>Chemical</i>				
DO (tablets)	MidDay	4 mg/L	21.5 °C	42% saturation
pH – Lamotte wide range pH kit	MidDay	7.5 8.0 8.0 7.5 7.8 8 6 7.2 6.4		Average 7.2
Salinity (Hydrometer)	MidDay	23 ppt 22 22 25 22 26 24 22		Average 23.5 ppt
Nitrates – test stripes	MidDay	0.5 0.5 1.0 0.0		Average 0.5 mg/L
<i>Tides</i>	NR			
<i>Currents</i>	11:20 am 12:07 pm 12:27 pm 1:03 pm	22.5 cm/s 1 cm/s 30.48 cm/s 17.72 cm/s	Flood Flood Flood Flood	
<i>Fishing – poles used each class</i>	Baby clams as bait	No catch		
<i>Commercial Traffic</i>	Staten Island Ferry	Every 2 hours	Battery to St. George SI	Orange
	Liberty Island Tours	Periodic	Battery & Island	White
	Barges	Loaded with goods		

	Fishing Boats			
<i>Recreational traffic</i>	Steady Traffic from recreational vessels, fishing boats and sailboats – moving both N & S			
<i>Observations</i>	Observations: Rip rap lining the shore, abutting a stone wall that runs into the water. Seaweed on some of the rocks, but not covering too much. A cormorant was present, but otherwise there was not too much visible sea life.			