

Day in the Life of the Hudson River 10/13/22

Governor's Island

RIVER MILE: -1

Salt Front: ~ RM76

New York Harbor School – Roy Arezzo

36 students & 3 adults

Latitude 40°41' N & Longitude – 74°01'W

Location: Northeast side of Governor's Island, New York

Area: Upper NY Harbor Area

Shoreline: Sea wall

Water: 5 m deep

*NR = Not read/recorded

ITEM	Time	Reading		Comments	
Physical					
Air Temperature-	11:17 AM	15.5°C	61°F		
Wind Speed:	10:30 AM	<i>Anemometer</i> 14.5 mph	<i>Beaufort</i> 3	<i>Direction</i> NE	
Weather today	10:27 AM	>75% cloud cover	No Rain		
Weather the past 3 days:	Mild, breezy, partly cloudy				
Tides-	Time	Rising, Falling, Unchanged	Water Height (cm)		
	10:30 AM 1:30 PM	Rising Falling	NR NR	HT: 11:17 AM LT: 5:51 PM	
Current-	Time	Cm/sec	Knots	North/South	Ebb/Flood/Still
	10:30 AM 1:30 PM	NR	1.4 0.9	North NR	Flood Ebb
Water Temperature-	10:30 AM	16°C 15°C 17°C	62°F 60°F 64°F		
Turbidity- Long Sight Tube (120 cm)	10:30 AM	97 cm 107 cm 108 cm	Average = 104 cm		
Chemical					
Salinity-Hydrometer	10:30 AM	22ppt 26 ppt 21 ppt	Average = 23 ppt		
Standardized Salinity – Refractometer	10:30 AM	25,000 ppm			
DO – Chemets Kit	Time 10:30 AM	Temp NR	ppm DO 6 ppm 6 ppm 5.5 ppm	% saturation NR NR 55%	
pH – Color Match Kit	10:30 AM	8 8 8			
Nitrates-	10:30 AM	0 ppm			
Phosphates- NR					
Ammonia-	10:30 AM	0.5 ppm			
Biological-					

<i>Fish – Oyster Cage</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
10:30 AM	1 1	Cunner Skillet fish			
Fish Totals	TOTAL: 2	Diversity: 2			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
NR					
Macroinvertebrate Totals	TOTAL: 0	Diversity:0			
<i>Sediment Core - N/A</i>					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
NR					
<i>Boats-</i>					
	Time	Name	Color	North/Southbound	Light/Loaded
Commerical- 5 boats were observed (Ferry & Tug boats)	NR	NR	NR	NR	NR
Recreational-N/A					