

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

Inwood Hill Park Marina, Manhattan

RIVER MILE: 12.75

Salt Front: ~ 49

Carolina Castro & Comprehensive School Model Project

41 students (9th-10th) & 6 adults

New York City Parks Rangers!

LatiLatitude 40.869039° N & Longitude – 73.93185°W

Location: Inwood Marina

Area: Nice fishing area

Surrounding Land Use: Industrial; Forested; Beach

Sampling Site: Pier; forested; grassy; parking lot; riprap (large rocks); concrete bulkhead

Shoreline: Sandy and rocky

Water: calm

Plants in area: no plants

River Bottom description: weedy, sandy, and rocky

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
Physical					
<i>Air Temperature</i>	10:00 AM	18.9° C		66° F	
	11:00 AM	20° C		68° F	
	12:00 PM	22.2° C		72° F	
<i>Wind Speed: NR</i>		<i>Anemometer</i>		<i>Beaufort</i>	<i>Direction</i>
<i>Weather today</i>	11:00 AM	<25% cloud cover		No rain	
<i>Weather the past 3 days:</i>	Clear day, temperature in the mid 60's (F)				
<i>Tides- NR</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
	11:58 AM	90.9	1.769	North	Flood
	12:08 PM	80.18	1.56	NR	Flood
	12:10 PM	103.3	2.01	NR	Flood
	12:12 PM	78.13	1.52	NR	Flood
<i>Water Temperature-</i>	1:14 PM	23° C		73.4° F	
<i>Turbidity- Long Sight Tube</i>	12:10 PM	17 cm			
Chemical					
<i>Salinity- Hydrometer</i>	11:30 AM	12 ppt			
<i>Standardized Salinity- High Range Quantabs</i>	2:00 PM	6,887 ppm		~7 ppt	
<i>DO – Hach Drop Count Kit</i>	<i>Time</i>	<i>Temp</i>		<i>ppm DO</i>	<i>% Saturation</i>
	10:51 AM	18° C		11	NR
	1:14 PM	23° C		5	60%
<i>pH – Color Match Kit</i>	11:45 AM	8			
<i>Nitrates- NR</i>					
<i>Phosphates-NR</i>					
Biological					

<i>Fish -</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
	9	Atlantic Silverside	4 cm	2.3 cm	
	1	White Perch	18 cm		
	1	Striped Bass	4.7 cm		
	1	Summer Flounder	2.2 cm		
Fish Totals	TOTAL: 12	Diversity: 4			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
	12	Blue Crab	6.3 cm	1 cm	
Macroinvertebrate Totals	TOTAL:12	Diversity: 1			
<i>Sediment Core -NR</i>					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
<i>Boats-NR</i>					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial					
Residential					