

Day in the Life of the Hudson River 10/16/18 Data

INWOOD HILL PARK, MANHATTAN

RIVER MILE: 14

Salt Front: ~RM 24

Riverdale Kingsbridge Academy- Carolina Castro-Skehan

38 students 10th grade, 4 adults

NYC Parks- Dan Tainow, Grant Wheeler, Rob Mastrianni

Latitude 40.87308 N & Longitude – 73.92105 W



Location: Inwood Hill Park, Manhattan, NY

Area: Forested, pier, parking lot

Surrounding Land Use: 60% Forested; 40% Urban/Residential; industrial/commercial; beach

Sampling Site: park/recreation, pier, bulkhead, riprap, drainage pipes in area, vegetation. Forested and used by people for picnics, jogging, sitting on park benches.

Shoreline: Sandy, rocky

River Bottom: Muddy

Plants in area: no plants in water area

Water: choppy

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature:</i>	NA	°C	°F	
<i>Wind Speed:</i>	12:20 PM	3 m/s	West	
<i>Weather Today:</i>	10:23 AM Partly Cloudy (26-50%)			
<i>Weather Previous:</i>	Rainstorm			
<i>Water Temperature</i>	11:00 AM	23 °C	73.4 °F	
	11:30 AM	23.5 °C	74.3 °F	
	12:00 PM	24 °C	75.2 °F	
<i>Turbidity- cms</i>	11:30 AM Avg:	15 cm, 14 cm, 14 cm 14.33		Cloudy/foggy
<i>Chemical</i>				
<i>Salinity- hydrometer</i>	1:03 PM	6 ppt TS		
<i>Dissolved Oxygen –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	11:51 AM	18 °C	15 ppm	155%
	12:00 PM	18 °C	15 ppm	155%
	12:21 PM	16 °C	14 ppm	140%

<i>pH - color match test kit</i>	11:32 AM	7.6, 7.4, 7.6			
	12:10 PM	7.6, 7.6, 7.6			
	12:30 PM	7.4, 7.7, 7.3			
Biological					
<i>Fish – seine</i>	Number	Name	Length of longest		
	4	Atlantic Silverside	7 cm		
	4	Stripped Bass	6 cm		
	TOTAL: 8	DIVERSITY: 2			
<i>Macroinvertebrates- Seine</i>	Number	Name	Length of longest		
	2	Blue Crab	male		
	TOTAL: 2	DIVERSITY: 1			
<i>Tides</i>	Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)	
	10:50 AM	Rising	34	-	
	11:10 AM	Rising	70	1.8	
<i>Currents Flow</i>	Time	Cm/second	Knots	North/South	Ebb/Flood/Still
	10:40 AM	86	1.67172	North	Flood
	11:10 AM	33	0.64147	South	Ebb
	12:10 PM	99	1.92442	South	Ebb
<i>Sediment Core</i>	Water depth	Length	Oxid Top	Grain Size	Other
12:40 PM		12 cm	No	Abundant: Mud Common: clay, sand	Oil
Other Observations	Lots of leaves in the water; bits of rock on the sand.				