

**Day in the Life of the Hudson River 10/16/18 Data
FORT WASHINGTON PARK, MANHATTAN
RIVER MILE: 11.5**

Salt Front: ~RM 24

Marymount School of New York – Jessica Genter & Katie Krueger

55 students 7th grade, 7 adults

Latitude 40.84574 N & Longitude -73.94629 W

Location: Fort Washington Park (South of George Washington Bridge), Manhattan, NY

Area: Site is a sandy beach with riprap adjacent to a paved jogging trail within a grassy park. Some trees on far side of jogging trail, but none next to water. Very little aquatic vegetation.

Surrounding Land Use: 70% Urban/Residential; 25% Forested; 5% Beach

Sampling Site: Park with many trees, picnic tables, covered with vegetation, riprap shore, collected wood debris. Large outflow pipe directly south of site <100 meters

Plants in area: No plants in the water area

Water: 2-4 feet

River Bottom: Sandy and rocks

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature:</i>	9:43 AM	9 °C	48.2 °F	
	10:22 AM	10 °C	50 °F	
	10:47 AM	14.5 °C	58.1 °F	
	12:16 PM	16 °C	60.8 °F	
	12:45 PM	18 °C	64.4 °F	
<i>Wind Speed:</i> No Rain	9:47 AM	3-3.9 m/s	Beaufort 2, South	Partly Cloudy
	10:25 AM	2/2-2.9 m/s	Beaufort 1.5, South	Mostly Cloudy
	10:52 AM	2.3 m/s	Beaufort 1.5, South	Partly Cloudy
	12:21 PM	2.8-4.1 m/s	Beaufort 2, South	Mostly Cloudy
	12:56 PM	2.7 m/s	Beaufort 2, South	Partly Cloudy
<i>Water Temperature-</i>	9:35 AM	16 °C	60.8 °F	
	10:06 AM	12 °C	53.6 °F	
	10:38 AM	16 °C	60.8 °F	
	12:02 PM	15 °C	59 °F	
	12:31 PM	17.2 °C	62.96 °F	
<i>Turbidity -</i>	9:42 AM	62.3 cm		
	10:20 AM	53.66 cm		
	10:41 AM	51 cm		
	12:07 PM	35.3 cm		
	12:37 PM	47.66 cm		
Chemical				
<i>Salinity-</i>	<i>Time</i>	<i>Hydrometer</i>	<i>Refractometer</i>	
	9:42 AM	7300 ppm	5000 ppm	
	10:20 AM	6600 ppm	4000 ppm	
	10:41 AM	8000 ppm	5000 ppm	
	12:07 PM	6000 ppm	5000 ppm	
12:37 PM	6000 ppm	5000 ppm		
<i>DO –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	9:52 AM		4.5	
	10:06 AM		6	
	10:52 AM		4.5	
	12:18 PM		4.5	
12:52 PM		4		
<i>pH –</i>	9:55 AM	7.1		
	10:28 AM	7		
	10:56 AM	7		
	12:24 PM	7.6		
<i>Fish- Seine, 13 Hauls:</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Total Atlantic Silversides: 81</i>
	#1 9:50 AM	5	Atlantic Silverside	
	#2 9:56 AM	13	Atlantic Silverside	

#3 10:19 AM	3	Striped Bass	4.4 cm	<i>Total Striped Bass: 18</i>	
#4 10:45 AM	40	Atlantic Silverside	7 cm		
#5 10:56 AM	3	Striped Bass	7.5 cm		
#6 10:58 AM	2	Striped Bass	6.5 cm		
#7 12:10 PM	2	Striped Bass	6.5 cm		
#8 12:22 AM	5	Striped Bass	12 cm		
#9 12:41 PM	6	Atlantic Silverside	6.5 cm		
#10 12:47 PM	1	Striped Bass	6 cm		
#11 12:52 PM	6	Atlantic Silverside	5 cm		
#12 12:55 PM	1	Striped Bass	5 cm		
#12 12:55 PM	1	Atlantic Silverside	6.1 cm		
	3	Atlantic Silverside	5 cm		
	6	Atlantic Silverside	8.5 cm		
	1	Striped Bass	8 cm		
	1	Atlantic Silverside	10.2 cm		
	TOTAL: 99	Diversity: 2			
Macroinvertebrates Seine, 13 Hauls:	Number	Name	Length of longest		
#1 9:50 AM	3	Blue Crab	All male	<i>Total Blue Crabs: 10</i>	
#2 9:56 AM	2	Unidentified Crab	All female		
#3 10:19 AM	7	Blue Crabs	5 female, 2 male	<i>Total Lady Crabs: 4</i>	
#4 10:45 AM	1	Green Crab	Female		
#6 10:58 AM	1	Shrimp		<i>Total Green Crab: 4</i>	
#7 12:10 PM	1	Lady Crab	Female		
#8 12:22 AM	1	Lady Crab	Male	<i>Total Shrimp: 1</i>	
#9 12:41 PM	1	Green Crab	Female		
#13 12:57 PM	1	Green Crab	Female		
	2	Green Crab	Female		
	1	Lady Crab	Female		
	1	Lady Crab	Female		
	TOTAL: 19	Diversity: 5			
Tides-	Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)	
	9:35 AM	-	45	-	
	10:07 AM	Rising	50	0.156	
	10:35 AM	Rising	57	0.25	
	12:02 PM	Rising	65	0.296	
	12:35 PM	Rising	70	0.152	
Current- *measured in a cove	cm/second	Rising, Falling, Unchanged	Height (cm)	Rate of Change (cm/min)	
Currents Flow	Cm/second	Knots	North/South	Ebb/Flood/Still	
9:35 AM	37	0.719	South	Ebb	
10:07 AM	32	0.622	South	Ebb	
10:35 AM	18	0.350	South	Ebb	
12:02 PM	13	0.253	North	Flood	
12:35 PM	39	0.758	North	Flood	
Boats	Time	Type	Name	North or South	Loaded or Light
Commercial	9:51 AM	Tugboat		South	Light
Recreational	10:20 AM			North	Light
Commercial	10:46 AM	Barge		South	Light
Recreational	10:51 AM			South	Light
Recreational	10:59 AM	Sailboat		North	Light
Recreational	11:01 AM	Sailboat		North	Light
Recreational	11:59 AM	Tourism Boat	Circle line Queens	South	Light
Commercial	12:33 PM	Tugboat		South	Light
Recreational	12:38 PM			South	Light
Recreational	12:41 PM	Police Boat	Parkway Police	North	Light