

**Day in the Life of the Hudson River 10/20/16 Data
(Salt Front ~ RM 83)**

RIVER MILE 11.5 – Fort Washington Park

Katie White, Marymount School of New York

51 students 7th grade, 7 adults, 8 adults

Latitude 40°50'46.42444" N - Longitude -73.°56'46.914"W



Location: Fort Washington Park just South of the George Washington Bridge

Area: Site is a sandy beach with rip rap 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: : 14% forested, 85% grass park land, 1% beach,

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

Plants in water: None

Water depth: 2-4 ft.

River Bottom –mainly sandy and rocks, no mud this year (past years yes)

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:51 AM 10:16 AM 10:59 AM 1:00 PM 1:43 PM	20°C 21 22 25 25		
<i>Wind Speed –</i>	<i>Time</i>	<i>Clouds</i>	<i>Beaufort #</i>	<i>Wind m/s</i>
	9:53 AM	mostly cloudy	3 - SW	8.7
	10:14 AM	mostly cloudy	2 - SW	6
	11:01 AM	mostly cloudy	3 - SW	8.3
	1:05 PM	mostly cloudy	2 - SW	7.1

Cloud Cover	10:06 10:26 10:55 12:24 12:52	Partly cloudy Mostly Mostly Clear Clear	25-50 % 51-75 51-75 <25 <25	
Weather today	No rain	Consistent weather throughout day		
Weather last 3 days	Weather for past 3 days: Warm (low 80s) and dry (no rain)			
Water	Water mainly calm, some small wavelets			
Water Temperature	9:49 AM 10:23 AM 10:48 AM 12:18 PM 12:51 PM	11°C 12°C 14°C 18°C 15°C		
Turbidity - Long site tube	9:46 AM 10:22 AM 11:00 AM 12:58 PM 1:30 PM	57.4 cm 63.22cm 59.2 cm 17.9 cm 13.1 cm		Tide was very high in the PM & mixing with sand on the beach é turbidity
Chemical				
DO Salifert Kit (each measurement is avg. of 4-5)	9:46 AM 10:21 AM 10:55 AM 12:41 PM 1:26 PM	18.5°C 17.5 20 19.5 20	6.8 ppm 5.6 5.8 4.2 5.5	70% saturation 60% 60% 43% 60%
pH color match test kit - (each measurement is avg. of 4-5)	9:46 AM 10:21 AM 10:55 AM 12:41 PM 1:26 PM	7.6 7.4 7.6 7.6 7.7		
Salinity		<i>refractometer</i>	<i>hydrometer</i>	
	9:36 AM 10:20 AM 10:50 AM 12:50 PM 1:10 PM	21.6 ppt 20.8 20 21.5 23.8	30 ppt 26.4 20.4 22.6 22.8	Average 21.54 *Bolded values are outliers – refractometer is more accurate.
Fish Catch – 9 ft. 30 ft. pull - 22 seines – 8 with no catch	Time	Fish Species	# caught	Length cm
Seine #3	9:51 AM	Atlantic Silversides	9	8.5
#4	9:55 AM	Atlantic Silversides	15	10.5
#6	10:20 AM	Striped Bass	1	9
#7	10:30 AM	Atlantic	8	12.5

		Silversides		
#10	10:55 AM	Bluefish	1	15.5
#21	1:21 PM	Atlantic Silversides	1	10.5
#22	1:35 PM	Bay Anchovy	1	6
TOTAL DIV - 3	TOTAL CATCH 36			
Macroinvert	Number	Macros	Number	Additional Info
Seine #2	9:38AM	Portunid crab	4	All Male
		Hydroid Medusa	1	
#4	9:55 AM	Portunid crab	4	All Male
#5	10:14 AM	Portunid crab	1	Male
#10	10:55 AM	Portunid crab	1	Male
#11	11:15 AM	Ctenophore	2	
#12	11:18 Am	Hydroid Medusa	1	
		Portunid crab	2	1 M, 1F
#14	12:47 PM	Portunid crab	1	F
#18	12:59 PM	Hermit Crab	1	
#19	1:07 PM	Portunid crab	1	M
#20	1:17 PM	Hermit Crab	2	
		Ctenophore	2	
		Hydroid Medusa	8	
Macro – Div. 4	Totals 31			
Tides	9:45 AM	Rising	27 cm	---
Data collected	10:24 AM	Rising	40	0.33
With stick in	10:45 AM	Rising	55	0.71
the sand	11:15 AM	Rising	60	0.17
	12:52 PM	Rising	85	0.27
	1:15 PM	Rising	83	-0.09
Currents	Cm/Sec	Ebb/Flood/Still	Note	
9:45 AM	17 cm/s	Ebb	We threw orange as far as possible but caught in side current. We expected flood based on tide	
10:24 AM	4.6	Ebb		
10:45 AM	6.1	Ebb		
12:52 PM	7.7	Ebb		
1:15 PM	4	Ebb		
Shipping – Commercial	10:08AM	Tug	Course of America	N - Light
	11:06 AM	Cargo	BBC Alabama	N - Light
Recreational	9:45 AM	Speed boat	n/a	South
	10:04 AM	Sail boat	L'aeuse aux Fraises	South
	10:31 AM	Speed Boat	n/a	South then North
	12:39 PM	Yacht	n/a	North
	12:39 PM	Sail boat	n/a	South

	12:39 PM	Sail boat	n/a	South
	12:54 PM	Sail boat	n/a	South