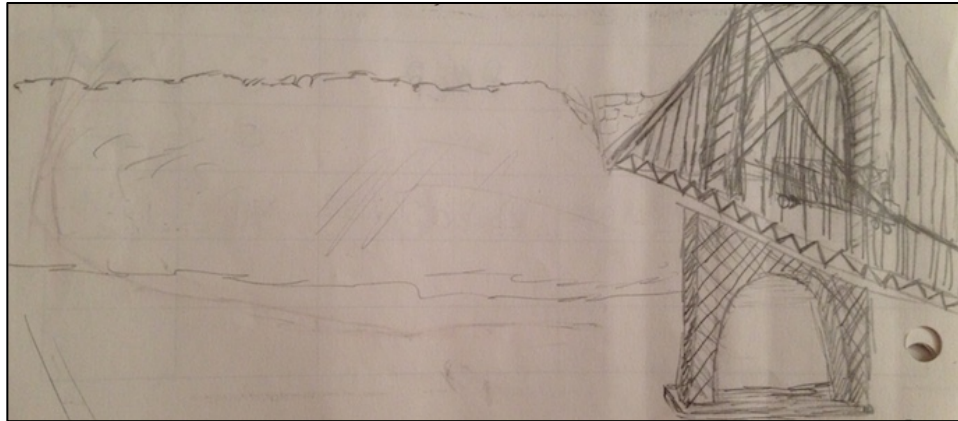


**Day in the Life of the Hudson River 10/20/15 Data**  
**RIVER MILE 11.5 – Fort Washington Park**  
**Katie White, Marymount School of New York**  
**51 students 7<sup>th</sup> grade, 7 adults**  
**Latitude 40°50'46.42444" N - Longitude -73.°56'46.914"W**



**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  
**Plants in water:** None  
**Water depth:** mainly 0.5 meters or less but seined in 1.5 meter water  
**River Bottom** –muddy but rocky closer to shore in some spots

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:58 AM	13°C		
	10:21 AM	14		
	10:50 AM	15		
	12:18 PM	20		
	12:48 PM	17		

Wind Speed – <i>Frequent gusts 15-20 throughout day</i>	10:02 AM 10:26 AM 10:55 AM 12:24 PM 12:52 PM	Beaufort 2 Beaufort 2 Beaufort 1 Beaufort3 Beaufort 3	5 pmh 5 3 6 8	SSW SSW SSW SSW SSW
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			
Weather last 3 days	Cold (highs mid to low 50s) , Clear, No precip			
<b>Water</b>	Before noon calm, after noon choppy			
<i>Water Temperature</i>	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		
<i>Turbidity - Long site tube</i>	10:00 AM 10:15 AM 11:00 AM 12:15 PM 12:45 PM	49 cm 51 cm 52 cm 46 cm 55 cm		Averages per rotation
<i>Chemical</i>				
DO <i>Hach Drop count</i>	10:10 AM 10:35 AM 11:03 AM 12:38 PM 1:13 PM	11°C 12 14 18 15	10 ppm 10 10 10 10	90% saturation 110% 95% 15% 128%
pH <i>color match test kit</i>	9:58 AM 10:29 AM 10:56 PM 12:27 PM 12:59 PM	7.0 7.2 7.3 7.2 7.2		
<i>Salinity</i>		<i>refractometer</i>	<i>hydrometer</i>	
	10:00 AM 10:15 AM 11:00 AM 12:15 PM 12:45 PM	17 ppt 17 18 19 19	17 ppt 17 17 15 16	
<i>Fish Catch – 9 ft. 20 seines</i>	<i>Time</i>	<i>Fish Species</i>	<i># caught</i>	<i>Length cm</i>
<i>Seine #1</i>	9:50 AM	Atlantic Silversides	1	8.0
<i>#2</i>	9:58 AM	Atlantic Silversides	17	8.5
<i>#3</i>	10:06 AM	Atlantic	1	8.5

		Silversides		
#4	10:20	Atlantic Silversides	12	11.5
#5	10:30	None	0	
#6	10:38	Atlantic Silversides	2	9.5
#7	10:40	Atlantic Silversides	7	10.5
#8	10:45	Atlantic Silversides	1	8.5
#9	10:55	None	0	
#10	11:00	Striped Bass	2	10.5
#11	11:05	None	0	
#12	12:15 PM	Atlantic Silversides	1	10.0
#13	12:20 PM	Atlantic Silversides	10	10.0
#14	12:22	None	0	
#15	12:25	Atlantic Silversides	2	8.0
#16	12:47	None	0	
#17	12:48	None	0	
#18	12:49	Atlantic Silversides	8	8.5
#19	12:54	None	0	
#20	1:00 PM	None	0	
<b>TOTAL DIV - 2</b>	<b>TOTAL CATCH 64</b>			
<b>Macroinvert</b>	<b>Number</b>	<b>Macros</b>	<b>Number</b>	<b>Additional Info</b>
<b>Seine #1</b>	9:50 AM	Mud Snail	1	
		Ctenophore	2	
#2	9:58 AM	Blue Crab	1	YOY Male
#2		Shore Shrimp (Palaemonetes)	1	
#3	10:06	Blue Crab	1	YOY Male
#3		Ctenophore	1	
#3		Mud Snail	1	
#6	10:30	Ctenophore	4	
#7	10:38	Ctenophore	4	
#8	10:45	Ctenophore	5	
#9	10:55	Ctenophore	5	
#11	11:05	Blue Crab	1	YOY Male
#11		Mud Snail	4	
<b>Macro – Div. 4</b>	<b>Totals 31</b>			
<b>Tides</b>	9:45AM	Rising	77 cm	---
	10:01 AM	Rising	81 cm	0.25 cm/min
	10:20 AM	Rising	88 cm	0.37
	10:30 AM	Rising	90 cm	0.58

	10:49 AM	Rising	102 cm	0.30
	11:07 AM	Rising	106cm	0.22
* meter stick got submerged so put in a new stick at a new location				
	12:15 PM	Rising	19 cm	---
	12:31 PM	Rising	30 cm	0.69
<b><i>Currents</i></b>	<b><i>CM/60 secs</i></b>	<b><i>Cm/Sec</i></b>	<b><i>North/South</i></b>	<b><i>Ebb/Flood/Still</i></b>
<b><i>9:58 AM</i></b> <b><i>10:20 AM</i></b> <b><i>11:00 AM</i></b> <b><i>12:23 PM</i></b> <b><i>12:55 PM</i></b>	Were able to throw the orange into the main channel so this is main channel current!	5.4 cm/sec 12.4 cm/sec 9.5 cm/sec 15.3 cm/sec 9.5 cm/sec		Flood Flood Flood Flood Flood
<b><i>Shipping – Commercial</i></b>	10:03 AM	Barge	BMLP	S - Loaded
	12:55 PM	Tug/Barge	Doubleskin 301	N - Light
<b><i>Recreational</i></b>	9:59 AM		Unknown	N – N/A
	12:32 AM		UNKNOWN	S - NA