

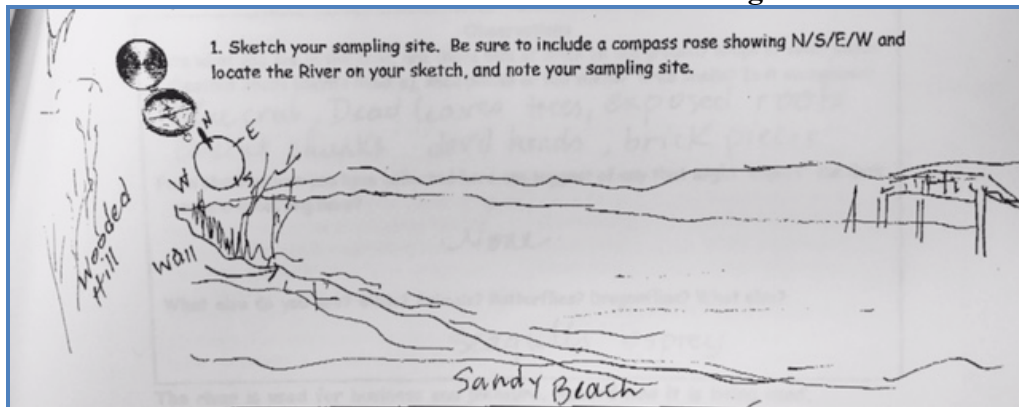
**Day in the Life of the Hudson River 10/20/16 Data
(Saltfront ~RM 83)**

**RIVER MILE 30.4 – Hook Mountain State Park
Joanne Dickey– Strawtown Art & Garden Studio**

Lorraine Marden-Blue Rock School

4th - 6th – 30 students, total 7 adults

41°7'9" N Latitude - 74° 54' 46" W Longitude



Location: Nyack Beach near Hook Mountain Sandy Beach right side of riverfront area

Area: Park/Boat launch, sandy beach area on the point with riprap

Surrounding Land Use: 5% urban/residential; 45% forested; 50% beach

Sampling Site: Sandy beach with retaining wall enclosing it and behind a lot of trees, picnic tables, sandy and rocky at edges, covered with vegetation beyond the beach, stone wall, riprap shore, concrete docking. Boat launch spits the site and steep bank behind picnic table area. Sandy beach is only available during lower to mid tide. Pipe enters river ~25 ft. south of sampling area

Plants in water: water celery 15%

Along the waterfront: brick, charcoal, slag

Water depth: 3 ft.

River Bottom –sandy, muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	11:06 AM	21°C 70°F		
	11:35 AM	22°C 72°F		
	1:15 PM	21.5°C 71°F		
Wind Speed	1:16 PM	Beaufort 3		
Cloud Cover	Partly cloudy 26-50%			
Weather today	No rain			
Weather last 3 days	No rain, warmer than normal			
<i>Water</i>	Calm and choppy at different times			
<i>*Water Temperature</i>	10:30 AM	*47°F	*8.3°C	
<i>*seems cold compared to other sites</i>	11:37 AM	*51°F	*10.5°C	

	1:15 PM	*50°F	*10°C	
<i>Turbidity – short site tube</i>	10:30 AM	40 JTU 30 JTU	Average 36 JTU – little turbid – water celery in the area.	
<i>Chlorophyll</i>	12:07 PM	1.0		
<i>Chemical</i>				
DO	10:51 AM 11:37 AM 1:15 PM	4 ppm 6 ppm 2.5 ppm	8.3 ° C 10.5° C 10° C	35% 55% 20%
pH <i>Indicator solution</i>	10:30 AM 11:37 AM 1:15 PM	6.5 7 7.5		
Salinity- <i>Quantab Test strip</i>	10:30 AM 11:37 AM 1:15 PM	5037 ppm Cl- 5450 ppm Cl- 4264 ppm Cl-	9100 ppm TS 9846 ppm TS 7703 ppm TS	
<i>Fish Catch</i>	<i>15 ft. pull X 4 time</i>	<i>Number Caught</i>	<i>Species</i>	<i>Length of largest</i>
<i>Seine 30 ft. X 4ft. Mesh 0.25 inch</i>	1:37 PM	8	Atlantic Silverside	11.5 cm
<i>Fish</i>	<i>Diversity 2 Totals 9</i>	1	Juvenile Striped Bass	8 cm
<i>Macros</i>	<i>Diversity 1 Totals 1</i>	1	Blue Crab	Male
<i>Tides</i>	<i>Time</i>	<i>Height</i>	<i>Rate of Change</i>	<i>Rising/Falling</i>
	10:40 AM	0 cm		Baseline
	1:27 PM	9 cm		Rising
	2:14 PM	10 cm		Rising
<i>Currents*</i>	<i>Time</i>	<i>CM/30 secs</i>	<i>Cm/Sec</i>	<i>Ebb/Flood/Still</i>
	11:10AM	56 cm	1.9 cm/sec	Ebb
	11:34 AM	63.5 cm	2.1 cm/sec	Ebb
	1:24 PM	89 cm	3 cm/sec	Flood
<i>Shipping Traffic – all recreational</i>	11:53 AM 12:20 PM 1:12 PM 1:13 PM	Small white Blue Motorboat Sailboat - white	Southbound Northbound Southbound Northbound	
<i>Other Items</i>	Blue crab, dead tree leaves, exposed roots, cement chunks, devil's heads, brick pieces. We also saw an osprey! And seagulls.			