

**Day in the Life of the Hudson River 10/4/12 Data**

**RIVER MILE 18**

**Vicki Garufi - Beczak Environmental Education Center**

**Harry Hall - Saunders Trade & Technical High School**

**Lisa Flaster, Riverdale Country School**

**(20 students) 10<sup>th</sup> -11<sup>th</sup> grade, 1 teacher, (28 students) 3<sup>rd</sup> graders, 1 teacher and 2 educators**

**Latitude – N 40.93813129121615 Latitude – W -73.90288889408111**

**Location:** Habirshaw County Park, Seining beach, Beczak Center, Yonkers in Westchester County

**Area:** 2 acre riverfront county park covered mostly by a grass lawn leading down to the river where it meets a tidal wetland and sandy beach. Property used for fishing, boats, seining, field trips and education programs - 60% grassy, 20% parking lot, 20% shore

**Surrounding Land Use:** urban/residential, beach uses

**Sampling Site shoreline:** sandy beach, tidal marsh area covered with vegetation, sandy area, banks altered, large riprap on shoreline, collected wood/debris in area,

**Plants in area:** no plants in the water

**Water depth –** 3 feet

**River Bottom –** muddy (sticky), rocky, weedy

**Plants**

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:20 AM –	22°C 75°F Beaufort 1 1-3 km/hr 1-3 kts South	Cloud Cover	100% cloudy
	10:33 AM –	22°C 75°F Beaufort 1 1-3 km/hr 1-3 kts South	Cloud Cover	100% cloudy
	10:50AM –	21°C 72°C Beaufort 1 1-3 km/hr 1-3 kts South	Cloud Cover	100% cloudy
	11:17 AM –	22°C 73°C Beaufort 1 1-3 km/hr 1-3 kts South	Cloud Cover	100% cloudy

	11:30 AM	22°C 71°C Beaufort 1 1-3 km/hr 1-3 kts South	Cloud Cover	100% cloudy
Weather today	Just started to rain as the final group headed indoors (noonish)			
Weather recently	Humid, some rain			
Water calm	calm			
<b>Water Temperature –</b>	10:20 AM	20°C 68 °F	10:25 AM	20°C 68 °F
	10:45 AM	20°C 68 °F	11:00 AM	20°C 68 °F
	11:27 AM	21°C 69.8 °F	11:30 AM	21°C 69.8 °F
	11:39 AM ft.	21°C 69°F		
<b>Turbidity – sight tube –</b>	Group 1 Group 2 Group 3 Group 4	26 cm 30 cm 32 cm 33 cm		
<b>Chlorophyll</b>	10:56 AM	0.1	11:26 AM	0.3
<b>Chemical – collected on the bridge by marsh</b>	<b>Time</b>	<b>Temp</b>	<b>DO</b>	<b>Saturated</b>
DO Hach drop count	10:30 AM	20°C	6 mg/L	65%
	11:00 AM	20°C	7 mg/L	75%
	11:30 AM	20°C	3 mg/L	30%
	12:00 PM	20°C	3 mg/L	30%
pH – test strips	10:15 AM	6	10:17 AM	6
	10:45 AM	7	10:56 AM	7
	11:24 AM	7	11:39 AM	7
Salinity – hydrometer (H) & Quantab (Q)	10:20 AM –	14 ppt (H)	8 ppt (Q) Chl	Converts to 14 ppt total salinity
	10:30 AM	8 ppt (H)	8 ppt (Q) Chl	Converts to 14 ppt total salinity

	11:00 AM	7 ppt (H)		
	11:15 AM	7 ppt (H)		
	11:20 AM	8 ppt (H)		
	11:40 AM	10 ppt (H)		
<b><i>Fish Catch</i></b>	<b><i>Number Caught</i></b>	<b><i>Species</i></b>	<b><i>Size of largest</i></b>	<b><i>Notes</i></b>
Seine net 30 feet X 4 ft., 1.4 inch mesh	40	Atlantic Silverside		
10:00 - noon	1	Banded Killifish		
	2	Blue Crab		
	5	Moon Jellies		
	2	Comb Jellies		
<b><i>Tides</i></b>	10:16 AM	19 cm		
	10:34 AM	25 cm	rising	
	10:42 AM	30 cm		
	11:02 AM	37 cm	rising	
	11:15 AM	41 cm		
	11:25AM	43 cm	rising	
	11:30AM	44 cm	rising	
<b><i>Currents</i></b>				
	10:20 AM.		flood	
	10:34 AM		flood	
	10:45AM		flood	
	11:16 AM		flood	
	11:26 AM		flood	
	11:35 AM		flood	
<b><i>Core Sample</i></b>	<b><i>Entire Length</i></b>	<b><i>Grain Size</i></b>	<b><i>Smell</i></b>	<b><i>Description</i></b>
<b><i>Group 1 River sample</i></b>	Grabbed a handful from the beach side	Large grain	No smell	Mix of rock and pebbles
<b><i>Group 2 Marsh Sample</i></b>	5 inch total - 3 inch top 2 inch bottom	Fine grain	Yes	Found a full open clam! Black in color, feels soft like clay, small worms and clams found.
<b><i>Other Items</i></b>	Monarch butterfly flew across sample area at 11:35 AM, Clam found in marsh sediment, Rat swam across marsh to beach! Canadian geese flying around park, Mallard ducks swim around marsh.			