

**Snapshot Day 10/18/11 Data
(Salt Front RM 35.7)
RIVER MILE 18**

**Vicki Garufi - Beczak Environmental Education Center
Harry Hall - Saunders Trade & Technical High School
(17 students) 10th -11th grade, 1 teacher and 2 educators
Latitude – N 40.93813129 Longitude – W -73.902888894**



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

Area: 2 acre riverfront property used for fishing, boats, seining, field trips and education programs - 60% grassy, 20% parking lot, 20% shore

Surrounding Land Use: 89% Industrial /commercial, 10% beach, 1% urban/residential

Sampling Site: 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 –

River Bottom – sandy, muddy (sticky), rocky

Plants –80% *Spartina alterniflora* in marsh, grasses, trees

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:30 AM –	17°C 61°F Beaufort 1 2-5 km/hr 1-3 kts South	9:37 AM –	17°C 61°F Beaufort 1 2-5 km/hr 1-3 kts South
	10:07 AM –	20°C 65°C Beaufort 1 2-5 km/hr 1-3 kts South	10:42 AM –	19°C 66°F Beaufort 2 4-7 km/hr 4-6 kts South

	10:54AM –	20°C 70°C Beaufort 1 1-3 km/hr 1-3 kts South	11:19 AM –	18°C 64.4°F Beaufort 2 4-7 km/hr 4-6 kts East
	11:31 AM –	18°C 63°C Beaufort 2 4-7 km/hr 4-6 kts South		
Cloud Cover	Partly cloudy			
Weather today	No rain			
Weather recently				
Water calm	calm			
Water Temperature –	9:29AM – 1 ft. depth	16°C 18 17	60.8 °F 64.4 62.6	17 °C 62.6°F
	10:10 AM – 2 ft. depth	17C 63.5 °F	62.6°F	17 °C 62.6°F
	10:40 AM -2 ft. depth	15 °C	59 °F	
	10:50 AM – 2 ft.	16.8 °C	61.4 °F	
	11:15 AM – 2 ft.	18 °C	64.4 °F	
Turbidity – sight tube – NOTE used in area where group was seining – so stirred up the mud	AM	18 cm 18 cm 18 cm 24 cm 24 cm 26 cm 30 cm 31 cm		23.63 cm average
Chlorophyll	9:50 AM 11:34 AM	0.7 0.7		
Chemical	Time	Temp	DO	Saturated
DO Hach (H) & Chemette (C)	9:50 AM	16°C	9 mg/L - H 5 mg/L - C	95% 50%
	10:20 AM	17°C	9 mg/L - H	90%

			6 mg/L - C	62%
	10:40 AM	15°C	9 mg/L	90%
	11:00 AM	16.5°C	8 mg/L	80%
	11:35 AM	18 °C	5 mg/L - C	50%
pH – color match	9:35 AM	7.5 X 2		
	10:10AM	8.0 X 2		
	10:45 AM	8.0 X 2		
	11:20 AM	8.0 X 2		
Salinity - hydrometer	9:28 AM – 11:25 AM	None detectable this method		
<i>Fish Catch</i>	<i>Number Caught</i>	<i>Species</i>	<i>Size of largest</i>	<i>Type</i>
Seine net 30 feet X 4 ft., 1.4 inch mesh - 34 ft. pull	18	Atlantic Silverside	8.5 cm	
11:30 AM	33	Atlantic Silverside		
	10	Herring		
	3	Striped Bass		
<i>Tides</i>	9:27 AM	19 cm		<i>Tide stick kept floating off with current & needed to be reset</i>
	9:35AM	21 cm	rising	
	10:04 AM	34 cm		
	10:17 AM	42 cm	rising	
	10:38 AM	44 cm		
	10:51 AM	44 cm	rising	
	11:13AM	48 cm		
	11:37AM	53 cm	rising	
<i>Currents</i>				
	9:30 AM.		flood	
	9:535 AM		flood	
	10:05AM		flood	
	10:18 AM		flood	
	10:40 AM		flood	
	10:52 AM		flood	
	11:15 AM		flood	
	11:28 AM		still	

<i>Core Sample</i>	<i>Entire Length</i>	<i>Grain Size</i>	<i>Smell</i>	<i>Description</i>
<i>Group 1 Marsh sample</i>				
<i>Traffic</i>	9:49 AM	Personal craft	White, red	North, empty
	9:49 AM	Personal craft	White, navy	North, full
	9:56 AM	Speed boats	White, black	South, empty
	10:19 AM	Cargo boat/Bouchard Transportation Co.	Red	South, empty (oil barge)
<i>Other Items</i>	Lot of seagulls, people planting plants,			