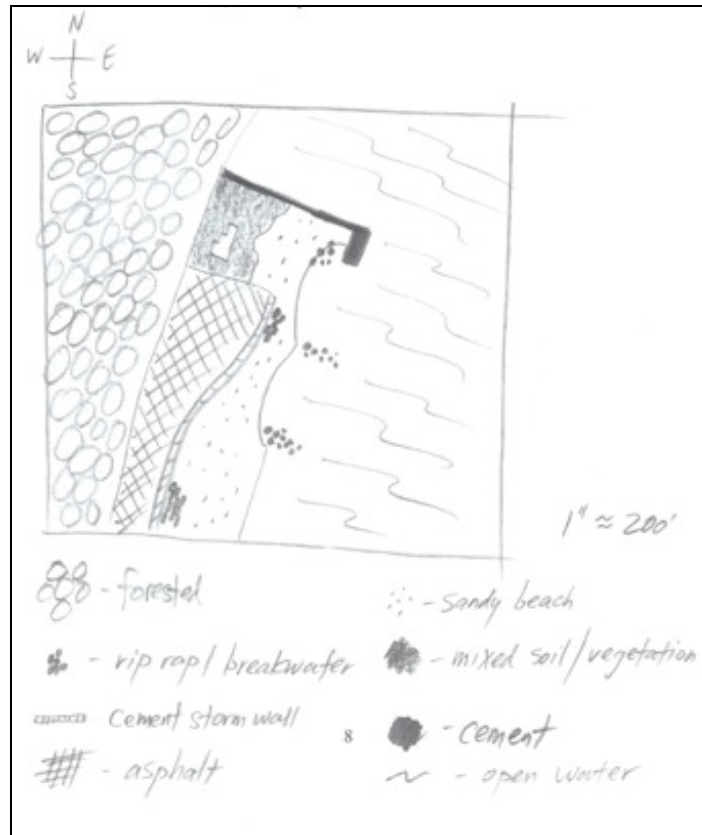


**Snapshot Day 10/8/09 Data  
(Salt Front RM 60.3)  
RIVER MILE 13**

**Bloomers Beach @ Engelwood Boat Basin  
Kirk Weber – Meadowlands Environmental Center  
Judi Bettencourt – West New York Middle School – 7<sup>th</sup> – 31 students  
N40.881297 -W73.943948**



**Location:** Bloomers Beach – north end

**Area:** sandy beach, banks altered, pier with rip rap sections, wood bulkhead, collected wood/debris in area, piping approx. 30" located at sampling site, 2 stone breakwaters as well as on shoreline, + cement storm wall

**Surrounding Land Use:** 20% urban/residential; 40% forested; 20% beach; 20% Industrial/commercial

**Bottom:** sandy & muddy

**Plants in area:** none in the water

**Water Depth:** 170 cm at high tide, or 5 ft. 7 inches

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:45 AM	60°F		

Wind Speed	95 mph		S	
Cloud Cover	clear			
Weather today	No precipitation			
Weather recently	Above average winds yesterday., rain overnight			
<b>Water</b>	Choppy			
<b>Water Temperature</b>	9:50 AM	15.6 °C 15.6 °C 16.1°C	60°F 60°F 61 °F	15.7°C 60.3°F
	10:50 AM	21 °C 15.6°C 21°C	70.°F 60 °F 70°F	19.4°C 67°F
	11:30 AM	18.3°C 17.2°C 16.7 °C	65 °F 63 °F 62 °F	17.4°C 63.3°F
<b>Turbidity - secchi</b>	10:43 AM	16 cm 14 cm 11 cm		14 cm
<b>Chemical</b>				
<b>Chlorophyll</b>	10:00 PM	0.5		
DO – ampules	11:40 AM	7 mg/L	17.5° C	70% saturated
pH – indicator sol.	11:00 AM	8.0 7.5 8.0		7.8 avg.
Salinity (hydrometer)	10:45AM	10 ppt 14 ppt 12 ppt		12 ppt average
<b>Fish Catch</b>	<b>Count</b>	<b>Fish</b>	<b>Size of largest</b>	<b>Macros</b>
14 ft. X 3 ft seine – pulled 20 ft.	75	Atlantic Silverside	4 inches	Blue Crab
3/16 inch mesh			1	Mud Crab
			2	Moon Jellies
			2	Sand Shrimp
Seine #1	11:30 AM	12 fish	20 ft pull	.14
Seine #2	11:45 AM	15 fish	20 ft pull	.18
Seine #3	12:00 PM	16 fish	20 ft pull	.19
<b>NOTE</b>	Local fisherman	Caught 2 large stripers ~ 40 inches	Caught 1 large blue fish~18-24 inches	
<b>Tides</b>	9:45	rising	125cm	

	10:20	rising	140cm	.43 cm/min
	10:50	rising	150cm	
	11:20	rising	165cm	.5 cm/min
	11:35	rising	165cm	
	12:05	rising	170cm	.17 cm/min
<b>Currents</b>	• due to local conditions an accurate measurement of the current & not be obtained.		Flood	North
<b>Core –</b>	20 cm total	Top layer 6 cm – dark blackish, pudding like	Second layer 14 cm – nearly black - clayey	
<b>Boats</b>	None			
<b>Other Observations</b>				