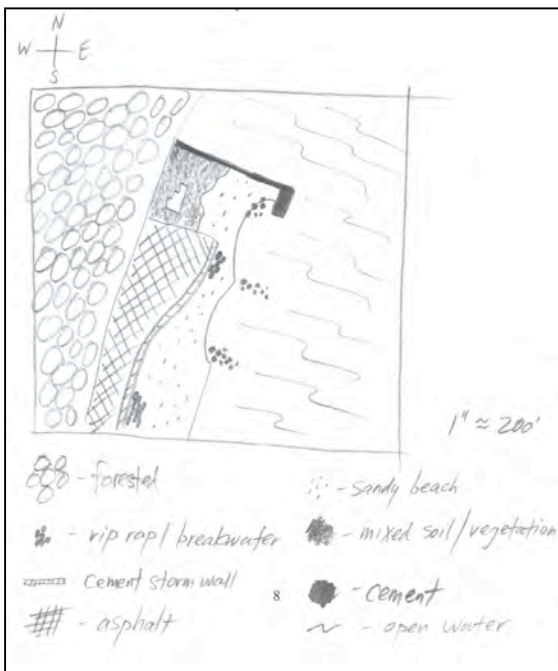


**Snapshot Day 10/18/11
(Salt Front RM 35.7)
RIVER MILE 13**

**Bloomers Beach @ Engelwood Boat Basin
Kirk Weber – Meadowlands Environmental Center
Shabeena Sarker – West New York Middle School – 25 students, 7th & 8th graders
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: 115 cm one hour before high tide,

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	10:15 AM	65°F 18.3°C		
Wind Speed	Beaufort #2			South
Cloud Cover	Cloud coverage decreased throughout the observation period			
Weather today	No precipitation			
Weather recently	10/15 normal (.09 inches rain); 10/16 normal (no rain); 10/17 normal (.01 inches rain)			
Water	Choppy			
Water Temperature	10:10 AM	17.3°C 16.6°C 17.3°C	63.2 °F 62.0°F 63.1°F	17.07°C 62.7°F
	11:00 AM	17.5°C 17.9°C 18°C	63.6°F 64.3°F 64.5°F	17.8°C 64.2°F
	11:40 AM	17.8°C 18.1°C 18.4°C	64.1°F 64.6°F 65.1°F	18.1°C 64.6°F
Turbidity – long site tube	12.30 AM	22 cm 25 cm 29 cm		25.3 cm
Chemical				
Chlorophyll	11:30 AM	0.7		
DO – ampules	11:45AM	6.3 mg/L	17.7° C	65% saturated
pH – indicator sol.	12:25 PM	8.0 7.5 8.0		7.8 avg.
Salinity (hydrometer)	11:30 PM	6 ppt 6 ppt 6 ppt		6ppt average
Fish Catch	Count	Fish	Size of largest	Macros
14 ft. X 3 ft seine – pulled 20 ft.	50 plus	Atlantic Silverside	9 cm	
1/8 inch mesh	9	Striped Bass	10 cm	
9 seines	10	Herring	6 cm	
Seine #1	10:15 AM	15 fish	20 ft pull	.18
Seine #2	11:15 AM	18 fish	20 ft pull	.13

Seine #3	12:15 PM	25 fish	20 ft pull	.29
Tides	8:58	rising	50 cm	
	10:50	rising	95 cm	.40 cm/min
	11:35	rising	105 cm	.22 cm/min
	12:15	rising	115 cm	.25 cm/min
Currents	10:58	7.01 cm/sec	North	Flood
Core –	22 cm total – overall black in color	Top layer 4 cm –pudding like	Second layer 18 cm –clayey	
Boats				