

**Snapshot Day 10/2/07 Data
(Salt Front RM 78.2)
RIVER MILE 13**

Bloomers Beach @ Engelwood Boat Basin

Kirk Weber – Meadowlands Environmental Center

Judi Bettencourt – West New York Middle School – 6-8th – 75 students

Location: Bloomers Beach – north end

Area: sandy horsehsho beach with rip rap sections

Surrounding Land Use: beach & park

Sampling Site:

Plants in area:

Water Depth: 4 feet

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:57 AM	25°C 77°F		
	10:35 AM	24°C 75°F		
Wind Speed	1.8 mph	Beaufort 1	NE	
Cloud Cover				
Weather today	No precipitation			
Weather recently	Low winds, normal temps., rain negligible (.01 to .10 inches)			
<i>Water Temperature</i>	9:55 AM	21.3 °C 21.4°C 21.5°C	70.3 °F 70.5 °F 70.7 °F	21.4°C 70.5°F
	10:35 AM	21.4°C 21.5°C 21.5 °C	70.5 °F 70.7 °F 70.7 °F	21.5°C 70.6°F
	11:55 AM	22.8°C 22.3°C 22.9 °C	73 °F 72.1 °F 73.2 °F	22.7°C 72.8°F
	12:20 PM	22.7°C 22.8°C 22.9°C	72.9 °F 73 °F 73.2 °F	22.8°C 73°F
<i>Turbidity</i>	10:10 AM	28 cm 17 cm 32 cm		25.7 cm
<i>Chemical</i>				
<i>Chlorophyll</i>	12:30 PM	0.5		
DO – drop count test kits	10:20AM	7 mg/L	21.3 ° C	75% saturated
pH – indicator	10:15 AM	7.5		7.7 avg.

sol.		7.5 8.0		
Phosphate	n/a			
Nitrate				
Alkalinity				
Salinity (hydrometer)	12:25 AM	16 ppt 14 ppt 15 ppt		15 ppt average
<i>Fish Catch</i>				
14 ft. X 3 ft seine – pulled 20 ft.	29	American Silversides		
	3	Striped Bass		
	1	Winter Flounder		
	2	Northern Pipefish		
Seine #1	10:00 AM	14 fish	20 ft pull	.164042
Seine #2	10:40 AM	3 fish	20 ft pull	.035152
Seine #3	11:30 AM	4 fish	20 ft pull	.046869
<i>Tides</i>				
	9:50 AM	67 cm	rising	
	10:20 Am	80 cm	rising	
	10:33 AM	87 cm	rising	
	10:58 AM	99 cm	rising	
	11:36 AM	115 cm	rising	
	12:00 PM	120 cm	rising	
	12:23 PM	126 cm	rising	
<i>Currents</i>				
	6.3 cm/sec	North	Flood	
<i>Core – 10:10 AM 4 ft. water depth</i>				
	22 cm total	Top layer 20 cm – dark grey, mixed sizes	Second layer 2 cm	First layer densely packed fine grains
	Common – mud, sand, gravel, pebble			
<i>Boats</i>				
	10:00 AM	Barge	Buchanan	South
<i>Other Observations</i>				