

**Snapshot Day 10/8/09 Data
(Salt Front RM 60.3)
RIVER MILE 18**

**Vicki Garufi - Beczak Environmental Education Center
Harry Hall - Saunders Trade & Technical High School
(20 students) 10th -12th grade
Latitude – N 40.93813129 Longitude – W -73.90288894**



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

Area: Riverfront property used for fishing, boats, seining, field trips and education programs

Surrounding Land Use: Urban/residential 10%, Forested 30%, Beach 50%, industrial/commercial 15%;

Sampling Site: beach, 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

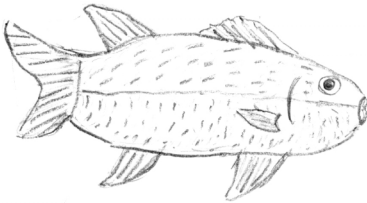
Water depth - 5 feet

River Bottom – sandy, muddy (sticky), rocky

Plants – Goldenrod 20% mugwort 25% shrubs 23% *Spartina alterniflora* in marsh.

Wetland plants, trees, water celery

Observations & Sketches
Comment on the diversity, a specific species, the size – whatever catches your attention....



<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:40 AM	17°C 62.6°F	10:08 AM	20°C 68°F
	10:20 AM	19°C 66.2°C	11:24 AM	19°C 66°F

Wind Speed –	3 Beaufort	12-18 km/hr	7-10 knots	West
Cloud Cover	Partly cloudy	No rain		
Weather today				
Weather recently				
Water calm	choppy			
<i>Water Temperature – Sunny & 1 ft. deep</i>	9:37AM	17 °C 62.6 °F	17 °C 62.6 °F	
	10:13 AM	17 °C 62.6 °F	17 °C 62.6 °F	
	10:45 AM	16 °C 60.8 °F	17 °C 62.6 °F	
	11:20 AM	16 °C 60.8 °F	16 °C 60.8 °F	
<i>Turbidity – sight tube – NOTE used in area where group was seining – so stirred up the mud</i>	AM	38 cm 32 cm 25 cm 22.2 cm 22 cm 17 cm 13 cm 11.4 cm		22.58 cm average
	11:04	32.3 cm		
<i>Chlorophyll</i>	9:45 AM 10:05 AM	0.7 0.5		
<i>Chemical</i>				
DO (chemette)	9:50 AM 9:49 AM	17°C 17°C	13 mg/L 4 mg/L	135% saturated 40% saturated
	10:23 AM 10:15 AM	17°C 17°C	7 mg/L 7 mg/L	70% saturated 70% saturated
	10:45 AM 11:05 AM	16°C 17°C	7 mg/L 7 mg/L	70% saturated 70% saturated
	11:30 AM 11:20 AM	16°C 16°C	10 mg/L 7 mg/L	100% saturated 70% saturated
pH – color match	9:45 AM	7.6	9:38 AM	8.0
	10:16 AM	8.0	10:10 AM	8.0
	10:42 AM	7.7	10:46 AM	7.8
	11:20 AM	8.0	11:24 AM	7.5
Salinity - hydrometer	9:35AM	7 ppt	9:36 AM	6 ppt
	10:19 AM	7 ppt	10:12 AM	6 ppt

	10:40 AM	6 ppt	10:41 AM	6 ppt
	11:20 AM	6 ppt	11:22 AM	7 ppt
<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	1	White perch	17.3 cm	Fish Catch
11:15 AM	6	White Perch	9 cm	
	22	White perch	23 cm	
	2	Blue Crab		
<i>Tides</i>	9:35 AM	9 cm		Pair #1
	9:57AM	15 cm	rising	RESULT
	10:04 AM	20 cm		Pair #2
	10:18 AM	30 cm	rising	RESULT
	10:38 AM	38 cm		Pair #3
	10:49 AM	49 cm	rising	RESULT
	11:09 AM	51 cm		Pair #4
	11:22 AM	57 cm	rising	RESULT
<i>Currents</i>				
	9:37 AM.		Still	
	9:56 AM		ebb	
	10:06 AM		Still	
	10:20 AM		flood	
	10:41 AM		ebb	
	10:54 AM		ebb	
	11:13 AM		ebb	
	11:23 AM		ebb	
<i>Core Sample</i>	<i>Entire Length</i>	<i>Grain Size</i>	<i>Smell</i>	<i>Description</i>
<i>Group 1 River Sample (came out as much)</i>	1.5 inches	Fine grain	Smells	Green plants in it & shells in it
<i>Group 2 Marsh sample</i>	5 cm – 2 inch top and 2 inch next layer	Mix grain – lots of sand, some mud, clay, gravel and pebbles	smells	Lots of layers
<i>Traffic</i>				
<i>Other Items</i>				