

**Snapshot Day 10/14/10 Data  
(Salt Front RM 36)  
RIVER MILE 18  
Groundwork Hudson Valley  
Science Barge Educator Gwen Hill  
4 Science Barge-Honda Interns**

**Location:** Hudson River @ the Science Barge, Yonkers waterfront south of Beczak

**Area:** Urban housing and waterfront redevelopment

**Surrounding Land Use:** Residential high rise towers and commercial property – 80% urban/residential; 20% Industrial/Commercial

**Sampling Site:** Pier, bulkheaded shore, riprap, debris in the area

**Plants in area:** NO

**Water depth:** 8 ft.

**River Bottom** –muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	4:22 PM	66°F 19°C		
Wind Speed	Beaufort 1	1-3 kts	1-3 mph	
Cloud Cover	Overcast			
Weather today	Started to rain at 4:50 PM			
Weather recently	Mild temp, sunny to part cloudy, no rain			
<i>Water</i>	calm			
<i>Water Temperature</i>				<b>Average</b>
	4:41 PM	64.03°F 17.8°C		
<i>Turbidity (secchi)</i>	4:50 PM	71.12 cm 71.12 72.39		71.54 cm average
	1:31 PM	50.3 cm		Depth ~21 ft. at sample site
<i>Chlorophyll</i>	11:43 AM	0.5	1:31 PM	0.0
<i>Chemical</i>				
DO (drop count kit)				
pH	4:55 PM	6.82 6.81 6.79		6.8
Salinity	5:00 PM	17 ppt 16 ppt		17 ppt

		18 ppt		
<b>Nitrates</b>	5:06 PM	2.5 ppm 0 ppm 0 ppm		0.83 ppm
<b>Tides</b>	4:00 PM	Rising	248.92cm	
	4:17 PM	Rising	249.42cm	
<b>Current</b>	<b>Cm/60 sec</b>	<b>Cm/sec</b>	<b>Kts</b>	<b>North/South</b>
4:10 PM	340.36	5.67	0.11	North/Flood
There is a pier, but current seemed to be moving the same direction as the main channel				
<b>Core</b>	<b>Length</b>	<b>Upper section</b>	<b>Lower section</b>	<b>content</b>
Looks like sludge – no visible life  *Sulfur smell	7.5 inches	3 inch	4.5 bottom	Mud/silt dark brownish-black in color.
<b>Shipping</b>	4 PM	Cruise ship tugboat		southbound
		4 barges	Anchored within sight	
<b>Other</b>	Seagulls, oily sheen on water	Driftwood and debris	Sewage small in water	