

**Snapshot Day 10/2/07 Data
(Salt Front RM 78.2)
RIVER MILE 32**

**Valerie Holmes & Bridget Kenny, Ossining HS Environmental Club
9th-12th grade – 40 students
41°09.288'N - 73°52.159'W**

Location: Crescent shaped beachfront in Ossining

Area: Beachfront area - paved sidewalk, rock wall lining the river, grass.

Surrounding Land Use: 20% beach; 20% industrial/commercial; 5 % forested; 55% paved sidewalk, rock wall lining the river, grass.

Sampling Site: bulkhead lines the shoreline – rock wall, beach, riprap

Plants in area: Arrow arum 10%; Bur-reed 30%; 50% Japanese knotweed; 10% unidentified plant – alternate leaves, opposite petiole, pinnate

Water depth:

River Bottom –sandy bottom

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	11:55 AM	72° F 22° C		
	12:35 PM	74° F		
Wind Speed	4-6	NNE		
Cloud Cover	Partly cloudy			
Weather today	Clear and warm			
Weather last 3 days	Cool, windy, partly cloudy – high 72-78 degrees F Rain at night 2 days ago			
<i>Water Temperature</i>	12:03PM	71° F 23 ° C		
	12:10 PM	70.8° F 21.5 ° C	Average of 3	
	12:33 PM	76° F 24 ° C		
<i>Water</i>	calm			
<i>Turbidity</i>	10 JTU			
<i>Chlorophyll</i>	12:18 PM	0.1		
<i>Chemical</i>				
DO (drop count)	12:00 PM	4.0 mg/L	21 ° C	45%
pH (indicator sol.)	12:14 PM	7.5 8.0		7.66

		7.5		
Nitrate	12:33 PM	0.0 ppm 0.0 ppm 0.0 ppm		
Phosphate	12:16 PM	2.0 ppm 1.0 ppm 1.0 ppm		1.33 ppm average
Salinity	12:03 PM	7%		<i>hydrometer</i>
	12:34 PM	9%		
	1:04 Pm	8%		
<i>Fish Catch</i>	<i>Number Caught</i>	<i>Species</i>		
<i>Tides</i>	12:01 PM	25.4 cm	Rising	
	12:31 PM	40.64 cm	Rising	
	1:05 PM	60.96 cm	Rising	
	1:35 PM	71.12 cm	Rising	
<i>Currents</i>	12:01 PM	Ebb	The water is buggin'!	Note: When we measured the tide levels it was increasing in height...BUT when we did the orange test they were all moving downriver (ebb) – we were confused by our results
	12:31 PM	Ebb		
	1:05 PM	Ebb		
	1:35 PM	Ebb		
<i>Shipping</i>	None noted			
<i>Core Description</i>	<i>Length</i>	<i>Abundant</i>	<i>Common</i>	<i>Rare</i>
	15 cm no layers no smell	Mostly Sand - gravel, pebbles	mud shells	Clay Wood brick