

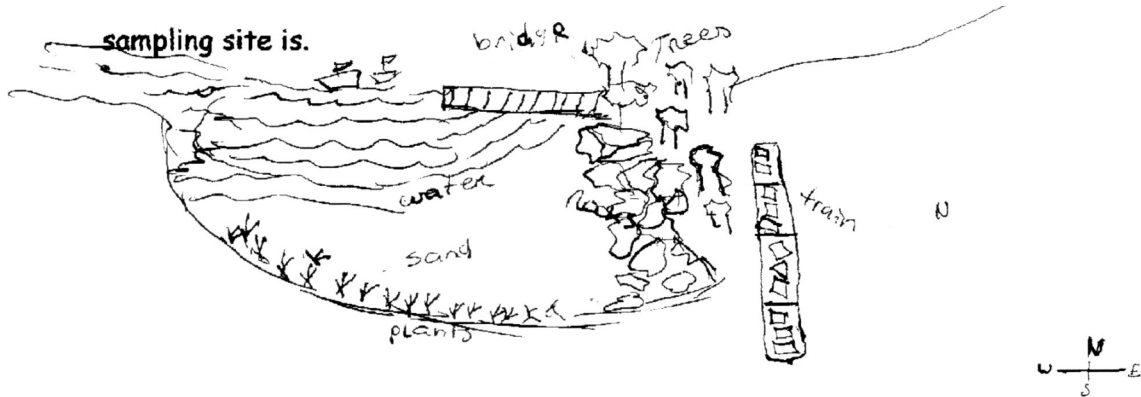
**Snapshot Day 10/7/08 Data  
(Salt Front RM 63.4)  
RIVER MILE 32**

**Lewis & Engel Park**

**Valerie Holmes & Bridget Kenny, Ossining HS Environmental Club**

**9<sup>th</sup>-12<sup>th</sup> 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:**

**Water depth:**

**River Bottom** –sandy bottom

### **Journaling Physical Description**

- The beach is mostly made up of sand, small shells, pebbles and bits of glass, and a very small amount of garbage.
- Piles of large boulders encircle the beach, some are at the water's edge and covered in green, slippery algae
- Small groves of trees are behind the boulders
- For the most part it is grassy behind the boulders
- The beach is also scattered with driftwood
- One pipe seems to discharge into the river (middle of area)
- There is a parkway pretty close to the area as well as benches
- There is a boat launch nearby
- The area does not appear to be a swimming area, people may have picnics or go fishing here
- The water appears to be calm with the exception of the chilly wind
- The shallows are about knee deep, but you go further and it gets deeper
- The water bottom appears to be sandy with occasional pieces of plant material.

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<b>Physical</b>				
Air Temperature	11:49 AM	57.3° F 15.4° C		
Wind Speed	8-12 mph	Beaufort #3	7-10 knots	NW
Cloud Cover	Clear			
Weather today	Clear and cool			
Weather last 3 days	Little bit of rain and unstable temperatures			
<b>Water Temperature</b>	12:02 PM	68.7° F 20.3 °C	68.5 ° F 19.8 °C	68.6 ° F avg. 20.05 °C
	12:23 PM	67.8° F 20.1 °C	67.9° F 19.6 °C	67.85° F 19.85 °C
	12:32 PM	68.7° F 20.03 °C	68.7° F 20.4 °C	68.7° F 20.35 °C
<b>Water</b>	calm			
<b>Turbidity</b>	1:15 PM	0 JTU		Short site tube
<b>Chlorophyll</b>	12:18 PM	0.1		
<b>Chemical</b>				
DO ( drop count)	12:12 PM	8.0 mg/L	19.8 °C	85%
	12:35 PM	9.0 mg.L	19.5 °C	97%
pH (indicator sol.)	12:30 PM	8.0		7.66
	12:45 PM	8.0		
	1:12 PM	8.0		
	1:15 PM	8.0		
Salinity	12:30 PM	14 ppm		<b>These readings do not make sense in this location as either ppm or ppt</b>
<i>hydrometer</i>	12:45 PM	12		
	1:12 PM	18.5		
	1:15 PM	18.5		
<b>Fish Catch</b>	<b>Number Caught</b>	<b>Species</b>		
	1	Silverside		
<b>Tides</b>	11:08 AM	25 cm		
	12:07 PM	40. cm	Rising	
	12:24 PM	43 cm	Rising	
	12:56 PM	50 cm	Rising	

<b><i>Currents</i></b>	11:59 AM	1020 cm/60 sec	17cm/sec	0.34 knots EBB
	12:31 PM	1800 cm/60 sec	30 cm/sec	0.6 knots EBB
	1:05 PM	375 cm/60 sec	6.25 cm/sec	0.125 knots EBB
	1:35 PM	240 cm/60 sec	4 cm/sec	0.08 knots EBB
<b><i>Shipping</i></b>	None noted			
<b><i>Core Description</i></b>	<b><i>Length</i></b>	<b><i>Abundant</i></b>	<b><i>Common</i></b>	<b><i>Rare</i></b>