

**Snapshot Day 10/18/11 Data  
(Salt Front RM 35.7)**

**RIVER MILE 32**

**Lewis & Engel Park**

**Bridget Baumann & Artie Carlucci, Ossining HS Environmental Club**

**9<sup>th</sup>-12<sup>th</sup> grade – 32 students**

**41°10'N - 73°52'W**



**Location:** Wading beach at Lewis J. Engell Park, Ossining, NY

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

**Surrounding Land Use:** 30% beach; 25% industrial/commercial; 5% Urban/Residential, 5% forested; 35% rocky and grassy

**Sampling Site:** bulkhead lines the shoreline with pier, rock wall, beach, riprap, rocky, weedy, used for picnics and boats. Pipe enters the river North of the sample site.

**Plants in area:** none - although noted some algae

**Water depth:** 2-3 feet deep

**River Bottom** –rocky then sandy deeper

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:00 AM	54°F 12°C		
Wind Speed	10:00 AM Beaufort #2	4-6 kts	4-7 mph	South wind
Cloud Cover	9AM	Mostly cloudy	11 AM	Partly cloudy
Weather today	No rain			
Weather last 3 days	Rained Sunday and Monday night			
Water	Choppy			

<b>Water Temperature</b>	9:15 AM	64° F 17 °C		3 replicates – all the same
	9:30 AM	20 ° C		3 replicates – all the same
<b>Turbidity</b>	9:05 AM	0-40 JTU >100 JTU 0-40 JTU		60 JTU avg.
<b>Chemical</b>				
DO ( drop count)	12:30 PM	8.0 mg/L	20 ° C	80%
pH (indicator sol.)	9:15 AM	6 7 6		6.5
Salinity-hydrometer	12:30 PM	2 ppt 0 ppt		<i>Avg. 1 ppt</i>
Nitrates	10:15 AM	0 times 3 reads		
Phosphates	10:15 AM	2 ppm X3		<i>Avg - 2 ppm</i>
<b>Fish Catch</b>	<b>Number Caught</b>	<b>Species</b>		
	40	Herring		
	7	Silverside		
	3	Spottail Shiner		
	1	Striped Bass		
<b>Quantity</b>	<b>51</b>	<b>Diversity</b>	<b>4</b>	
<b>Tides</b>	8:30 AM	0 cm		
	11:30 AM	40 cm	Rising	
	12:00 PM	62 cm	Rising	
<b>Currents</b>				
<b>Shipping</b>	9:00 AM	Oil Barge	Southbound	empty
	9:30 AM	Ferry	Across to Haverstraw	people
<b>Core Description</b>	<b>Length</b>	<b>Abundant</b>	<b>Common</b>	<b>Rare</b>
10:00 AM	3 inches	Sand & gravel	clay	Mud
Water depth 3 ft.	No smell or oxidized top		Pebbles	
<b>Observations</b>	Seagulls & geese			