

Snapshot Day 10/4/12 Data
RIVER MILE 32
Lewis & Engel Park
Bridget Baumann & Artie Carlucci, Ossining HS Environmental Club
9th-12th grade – 30 students
41°10'N - 73°52'W



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

Area: Beachfront area with a ferry pier, paved sidewalk, rock wall lining the river, grass

Surrounding Land Use: 40% beach; 10% industrial/commercial; 49%

Urban/Residential, 1% forested

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: yes - about 15% of the area had plants – of that 80% was water celery (Vallisnaria). Aside from plants in the water there was Japanese knotweed and other grasses in the sampling area.

Water depth: 4 feet deep

River Bottom: rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	8:30 AM	72°F 22°C	9:30 AM	72°F 22°C
Wind Speed	9:00 AM Beaufort #1			
Cloud Cover	9AM	Overcast, sprinkles		
Weather today	No rain			
Weather last 3 days	Rained Sunday and Monday night			
Water	Calm			
<i>Water Temperature</i>	9:15 AM	64° F 17 °C		3 replicates – all the same
<i>Turbidity- secchi</i>	9:05 AM	30 cm 35 cm		35 cm avg.

		40 cm		
Chemical				
DO (ampules)	9:30 AM	1.0 mg/L	22 ° C	Below the chart
pH (indicator sol.)	9:00 AM	7		
Salinity-hydrometer	9:11 AM	5.2 ppt 6.0 ppt		Avg.5.8 ppt
Fish Catch	Number Caught	Species	Length of largest	
	40	Silverside	5 inches	
Quantity	40	Diversity	1	
Tides- LT listed as 7:36 AM	Time	measurement	Rate of Change	Rising/Falling
	7:00 AM	0 cm		
	9:00 AM	10 cm	5cm/hr	Rising
	10:00 AM	25 cm	15 cm/hr	Rising
	10:30 AM	38 cm	26 cm/hr	Rising
	11:00 AM	53 cm	15 cm/hr	Rising
Currents				
Shipping	8:00 AM	Ferry	Eastbound	
	9:00 AM	Ferry	Westbound to Haverstraw	people
	10:00 AM	Ferry	Eastbound	
Core Description	Length	Abundant	Common	Rare
Observations				