

**Snapshot Day 10/20/15 Data
RIVER MILE 32
Lewis & Engel Park**



**Bridget Baumann & Artie Carlucci, Ossining HS AP Environmental Science
10th-12th grade – 70 students, 10 adults
41° 10'N - 73° 52'W**



Location: Wading beach at Lewis J. Engel Park, Ossining, NY
Area: Beachfront area with a ferry pier, paved sidewalk, rock wall lining the river, riprap, grass by metro north station
Surrounding Land Use: 50% beach, 15% park, 25% industrial/commercial
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 the water: 10% water chestnut; 90% water celery
Shoreline: 50% Rocky, 50% Sandy
River Bottom: sandy, rocky, muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:30 AM	57°F 14°C	1:15 PM	64°F 18°C
Wind Speed	1:18 PM	Beaufort #2	South	
Cloud Cover	1:19 PM	<25%		
Weather today	No Rain			

Weather last 3 days	Unseasonably cool, no major rain or precipitation Snow flurries on 10/18 – 40°F			
Water	Small wavelets			
Water Temperature	10:30 AM 11:15 AM	14 ° C 12 ° C		
Turbidity- site tube	AM	35 cm 35 40	AVERAGE-	37cm
Turbidity Comment: Water was a little cloudy. We could see the bottom of a 5 gallon bucket				
Chemical				
DO – LaMotte Green Water test kit	10:30 AM 11:15 PM N/R	2.0 mg/L 6.0 mg/L 4.0 mg/L	14 ° C 12 ° C 16 ° C	17% saturated 46% saturated 40% saturated
pH (test strips – color match)	9:50 AM 10:23 AM 10:45 AM 11:25 AM	6.0 7.0 8.0 7.0		
Salinity- hydrometer	10:00 AM 10:21 AM 11:34 AM 12:50 PM	11, 12, 10, 11 10, 7 ppt 2, 2.8, 6 ppt 6, 6, 7, 8	Averages	11 ppt 8.5 ppt 4 ppt 7 ppt
Nitrogen	5 ppm	5 ppm		
Phosphorous	2 ppm	1 ppm		
Fish Catch 10 ft. seine	Number Caught	Species	Length of largest	
10:00-2:00 PM	136	Atlantic Silversides	10.6 cm	Diversity - 3
	1	Striped Bass	10.6 cm	Total Count - 139
	2	Herring	15 cm	
Currents	1:15 PM	200 cm/30 secs	6.7 cm/sec	
	1:22 PM	201 cm/30 secs	6.7 cm/sec	
Shipping	10:31 AM 12:41 PM	Blue Barge Black Barge	North South	Loaded Loaded
Core Description	Length	Abundant	Common	Rare
Collected in 3 ft. water @ 11:32 AM	Not listed *no H2S *no O2 top	Sand	Mud Gravel	Clay Pebbles
Observations	Abiotic – bricks, shells, and rocks on the ground Biotic - Birds, Insects & water chestnuts were on the ground			

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