

Snapshot Day 10/21/14 Data
(Salt Front RM 64.3)
RIVER MILE 32
Lewis & Engel Park
Artie Carlucci, Ossining HS AP Environmental Science
10th-12th grade – 22 students, 2 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: 80% beach, 10% urban/residential, 10% 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 area: 90% grass, one tree, in the water was some water celery (Vallisnaria)

Water depth: 8-10 feet deep

River Bottom: sandy, rocky and weedy – very dirty

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	PM	55.4°F 13°C		
Wind Speed				
Cloud Cover	Overcast			
Weather today	Rain around 2PM			
Weather last 3 days	Rain last few days, wind picked up during day. Clouds.			
Water	Between calm and choppy			
<i>Water Temperature</i>	PM	64.4° F 18°C		
<i>Turbidity- long site tube</i>	PM	64 cm		
<i>Chemical</i>				
DO – LaMotte Green Water test kit *expect error and did not include in calculations	PM	5.0 mg/L 6.0 mg/L *18 mg/L 8 mg/L 8 mg/L	AVERAGE	6.75 mg/L
pH (indicator sol.)	PM	7.0 7.0 7.0 7.0 8.0	AVERAGE	7.2

Salinity-hydrometer	PM	3.6 ppt?		Recorded as 36 ppt- expect missed decimal
Nitrates	PM	3 ppm 4 ppm 5 ppm 3 ppm	AVERAGE	3.75 ppm
Phosphates	PM	2 ppm 2 ppm 2 ppm 2ppm	AVERAGE	2 ppm
<i>Fish Catch 30 ft. seine</i>	<i>Number Caught</i>	<i>Species</i>	<i>Length of largest</i>	
PM	8	Atlantic Silversides	3 inches	<i>Diversity - 2</i>
	1	Striped Bass	5.5 inches	<i>Total Count -9</i>
MACROS	1	Blue Crab	<i>Diversity – 1</i>	<i>Total Count - 1</i>