

Snapshot Day 10/21/14 Data
(Salt Front RM 64.3)
RIVER MILE 32
Lewis & Engel Park
Bridget Baumann, Ossining HS AP Environmental Science
10th-12th grade – 30 students, 3 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

Sampling in the afternoon

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	1:40 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>	1:43 PM	68° F 20°C		Water Depth 1.5 ft.
<i>Turbidity- site tube</i>	1:50 PM	21.6 cm 30.2 25.0	AVERAGE-	25.4 cm
Turbidity Comment: Water was a little cloudy. We could see the bottom of a 5 gallon bucket				
<i>Chemical</i>				
DO – LaMotte	1:30 PM	8.0 mg/L	20 ° C	90% saturated
Green Water test kit	1:50 PM	8.0 mg/L	20 ° C	90% saturated
pH (indicator sol.)	1:30 PM 1:52 PM 1:55 PM	8.0 7.0 7.0		
Salinity-	1:40 PM	1.004 density	4.8 ppt	

hydrometer				
<i>Fish Catch 30 ft. seine</i>	<i>Number Caught</i>	<i>Species</i>	<i>Length of largest</i>	
1:00-2:00 PM	8	Atlantic Silversides	3 inches	<i>Diversity - 2</i>
	6	Striped Bass	5.5 inches	<i>Total Count - 14</i>
MACROS	4	Shrimp		<i>Diversity - 2</i>
	1	Crab (tiny brown)	Mud crab	<i>Total Count - 5</i>
<i>Shipping</i>	None from 12:15-2:05 PM			
<i>Core Description</i>	<i>Length</i>	<i>Abundant</i>	<i>Common</i>	<i>Rare</i>
	Not listed	Sand Gravel Pebbles		
<i>Observations</i>	Abiotic – sand, logs, clam and mussel shells Biotic - Seagulls, ducks, very big grasshopper Impacts – plastic bags (litter) and parking lot run off			