

Snapshot Day 10/20/16 Data

(Salt Front ~RM 83)

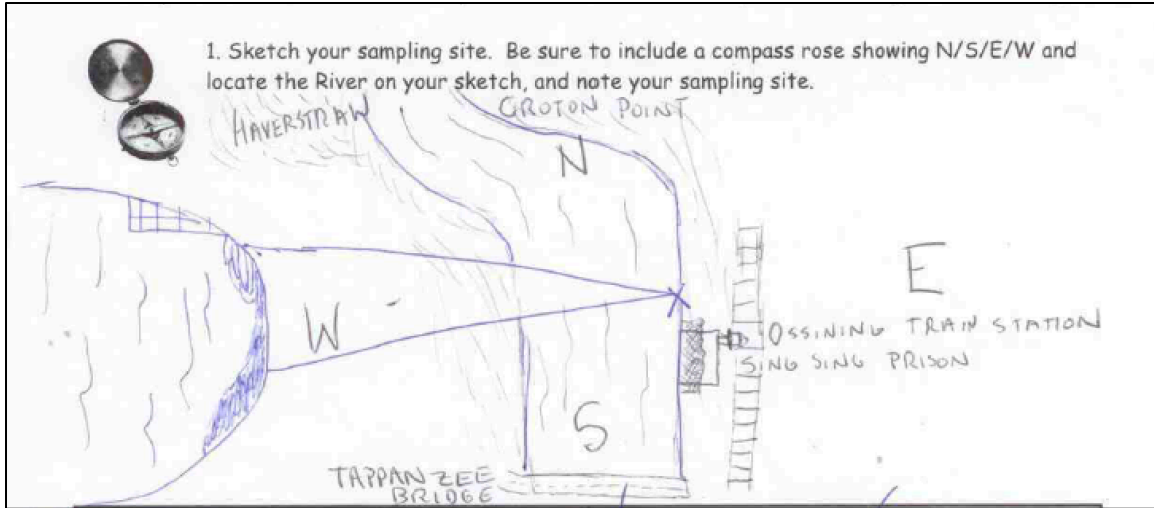
RIVER MILE 32

Lewis & Engel Park

Bridget Baumann & Artie Carlucci, Ossining HS AP Environmental Science

10th-12th grade – 12 students, 1 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 and muddy with small rocks

Plants: Water chestnut, water celery, *water milfoil (*listed as hornwart on recording sheet)

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	12:00 PM 2:00 PM	69°F 68°F	20.6°C 20°C	
Wind Speed	9:00 AM	Beaufort #3	NW	8mph
Cloud Cover	12:00 PM	51%-95%	Mostly cloudy	
Weather today	No Rain			
Weather last 3 days	Unusually warm			

Water	Small wavelets			
Water Temperature	9:30 AM 11:30 AM 12:00 PM	18 ° C 18 ° C 20 ° C	64° F 64° F 68° F	
Turbidity- long site tube	9:45 AM	<10 cm >10 cm >10 cm		
Turbidity Comment: Water was very turbid. The water was clear when observed from outside the tube, but was not very directly examined. Light did not penetrate far, showing the water's ability to block sunlight.				
Chemical				
DO – LaMotte Green Water test kit	11:04 AM 11:30 AM 12:00 PM	2.0 mg/L 3.0 mg/L 4.0 mg/L	18 ° C 20 ° C 20 ° C	20% saturated 33% saturated 43% 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- plastic hydrometer (*recorded as ppm but should be ppt)	11:00 AM 11:30 AM 1:20 PM	14 ppt 12 ppt 13 ppt		Average 13 ppt
Nitrogen	11:04 AM	15 ppm	15 ppm	
Phosphorous	11:14 AM	2 ppm	2 ppm	
Fish Catch 15 ft. seine	Number Caught	Species	Length of largest	
9:30 AM	12	Atlantic Silversides	10 cm	Diversity - 6
	7	Striped Bass	9 cm	Total Count - 24
	1	White Perch	19 cm	
	1	Blue Fish	14.5 cm	
	2	Naked Goby	2 cm	
	1	Pipe fish	17 cm	
Macros	6	Blue Crab	3male/3 F	Macro Div- 3
	15 +	Asian Crab		Total Count – 24+
	3	Mitten crab		
Tides	9:30 AM 2:00 PM	Set stick 330 cm	4.4 hrs. = 270 minutes	Average 1.22 cm/min
Currents	NR			
Shipping - Commercial	9:00 AM 9:30 AM	Haverstraw Ferry Seining Boat	White Grey	E&W /Loaded S/ Loaded

	1:00 PM	for Indian Pt. Freighter	Blue/White	North/Loaded
<i>Shipping – Recreational</i>	9:30 AM	Fishing Boat	White	N&S Light
<i>Core Description</i>	<i>Length</i>	<i>Abundant</i>	<i>Common</i>	<i>Rare</i>
Collected in 1 meter of water @ 11:00 AM	Not listed *no H2S *no O2 top	Mud Sand Pebbles	Gravel Leaves	Wood Freshwater Mussels Brick Slag Living Vegetation
<i>Observations</i>	Along the beach there are scattered pieces of brick on the ground as well as a few water chestnut seeds and crab shells.			
	Also saw butterflies, various birds (pigeon) and dogs			