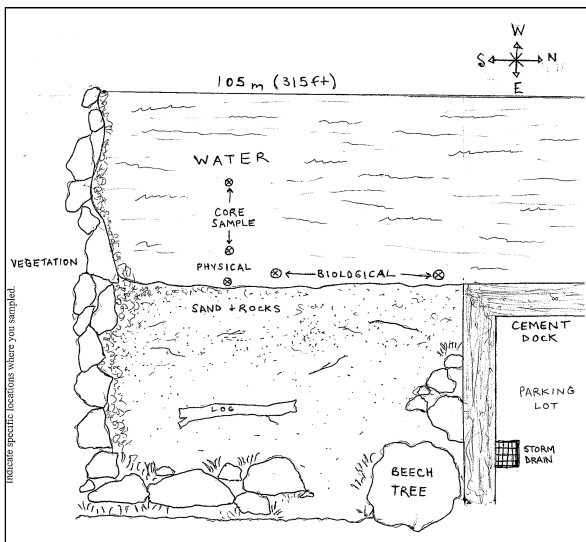


Day in the Life of the Hudson River 10/4/12 Data
RIVER MILE 41
Steamboat Dock Park, Verplanck, Westchester
Bob Connick, Sott Rizzo, Mahopac High School; Teatown Lake Reservation
Environmental Research and Field Biology 9th - 12th graders –33students
Latitude N 41°14.962 Longitude W 73°57.888



Location: Steamboat Dock Park beach, City of Verplanck in Westchester County
Area: located in a small cove between a point and a bulkhead – sampled approximately 30 ft. from south end of dock/parking lot

Surrounding Land Use: Industrial/Commercial 25% , beach 70%, Forested 5%. Some buildings with large parking lots in front to the north. Beach, a street with houses with some trees to the south

Sampling Site: beach, riprap, banks altered, dock, bulkhead, pipe south of the sampling site 10-15 meters.

Plants in area:
Water depth:
River Bottom – sandy
Observations- 2% bur-reed in area

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	10:45 AM	23°C		
Wind Speed	Beaufort Chart: 2	Light breeze		
Cloud Cover	Morning fog	90% cloud cover	Overcast	
Weather today	Cold, light rain, drizzle, humid			
Weather recently	Heavy showers, warm air temperature			
Water Surface	Calm			
Water Temperature –	22.6°C 22.5°C			
Turbidity –	11:04 AM	75 cm Transparency tube	78cm Trans. tube	
Chlorophyll	11:40 am	0.5		
Chemical				
DO (drop kits)	10:45 AM 11:30 AM 12 AM	8 ppm 7 ppm 9 ppm		95% Saturation 105%
pH Indicator solution	10.40AM 11:13 AM	7.4 7.7	7.8 7.5	
	12 PM	7.6		
Salinity YSI SCT meter	10:30 AM 11:28 AM 12:00 PM	2.4 ppt 2.3 ppt 2.6 ppt		
Conductivity YSI SCT meter	10:25 AM 10:30 AM 11:30 AM	4483 microsiemen/cm 4507 microsiemen/cm 4166 microsiemen/cm		ppm is = 0.64 conductivity
Alkalinity (Hach kit: drops)	10:55 AM 11:00 AM 11:30 AM	80 mg/L 100 mg/L 160 ppm		
Nitrates (colorimeter)	10:30 AM 10:49 AM	0.1 ppm 0.2 0.6 ppm		
Phosphate (colorimeter)	10:30 AM 10:40 AM 11:13 AM	0.55 ppm 0.25 ppm 0.00 ppm	Used color	wheel
Fish Catch-10:30 AM	Number Caught	Species	CPUE	Seine
50 ft net X 4ft–50 ft. pull				
Run 1	1	Striped Bass		

	0	Shiners		
	82	Silversides		
			X=83	
<i>Run 2</i>	4	Silversides		
	2	Yellow perch		
	1	White perch	X=7	
<i>Run 3</i>	77	Silversides	X=77	
Total Catch 167 fish		Total Diversity 4 species		
Invertebrates	1 large blue crab	4 small dead blue crab		
Birds	1 song sparrow, 2 Cormorant, 1 Ring Bill Gull, 1 Osprey, 40 Bluejay (migrating) , 3 Canadian geese, 2 Mallards			
Trees	Tree of Heaven, London planetree, willow, Red maple, Golden rod, Turtle grass, eel grass, honey suckle, Asiatic day flower, vines, Albizzia			
Tides	TIME	Water height	Rise/Fall	
	10:30AM	0 inches	Rise	Put at waterline
	11:30AM	6 inches	Rise	
	11:36 AM	7 inches	Rise	
Currents	Time			
Core –	TIME	Rare	Common	Abundant
Traffic	10:22 AM	Commander	Northbound	Light
	11:30 AM	Coast Guard	Southbound	Light
	11:32 AM	Cape Wendy	Southbound	Loaded
	12:05 PM	Captain's Choice	Southbound	Light
Other Items				