

**Day in the Life of the Hudson River 10/4/12 Data**  
**RIVER MILE 97**  
**Sojourner Truth/Ulster Landing State Park, Town of Ulster, Ulster Co.**  
**Latitude 42°N, Longitude 73°56'W**  
**Celia Cuomo, Cary Institute of Ecosystem Studies**  
**Dixon Onderdonk, Kingston High School 12<sup>th</sup> graders – 10 students**

**Location:** Swimming beach, Sojourner Truth/Ulster Landing Park, Town of Ulster, Ulster County

**Area:** fishing, swimming beach, has a building with restrooms

**Surrounding Land Use:** Beach 5%; Forested area 90%; parkland with grass and picnic area 5%

**Sampling Site:** beach, altered bank with concrete bulkhead, wood debris driftwood, slag and brick in the area, drainage from bulkhead north of site immediately

**Plants in area:**

**Water depth:** 3 ft.

**River Bottom:** sandy at the edge then very muddy

**Plants:** no plants

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:13 AM	19.5°C 67.3 °F	10:17 PM	20°C 68 °F
Wind Speed	0 Beaufort			
Cloud Cover	mostly cloudy			
Weather today	Initially foggy, drizzle to light rain			
Weather recently	Overcast and rainy, a little cooler			
<i>Water Temperature</i>	8:54 AM	18°C 64.4°F		
	10:20 AM	19°C 66.2°F		
	12:03 AM	21°C 68.9°F		
<i>Water Surface</i>	calm			
<i>Turbidity turbidimeter</i>	9:37 AM	8.2 NTU 7.76 7.84		7.93 NTU
<i>Chlorophyll</i>	9:53 AM	0.3		
<i>Chemical</i>				
DO – meter	9:20 AM	11 mg/L	18°C	118% saturated
	11:13 AM	16.5 mg/L	18°C	150%

pH - meter	9:45 AM 9:45 AM Noon	7.38 7.6 7.58		7.52 average
Phosphate	10:09AM	2.75 ppm 2.75 ppm		2.75 ppm average
Nitrate -	10:01 AM	1.3 ppm 1.1		1.2 ppm
Alkalinity	10:09 AM	118 mg/L		118 mg/L
Salinity – test strips	9:45 AM	28 ppm Cl- 28 ppm Cl- 28 ppm Cl-		51ppm total salinity
<b><i>Fish Catch</i></b> <i>27.5'seine X 3.5 X 1/8 inch mesh</i>	<b><i>Species</i></b>	<b><i>Number</i></b>	<b><i>Length of largest</i></b>	<b><i>Seine #</i></b>
<b><i>Seine #1</i></b>	Common Shiner	23	6.5 cm	<b><i>11:00 AM</i></b>
	White Perch	1	33 cm	<b><i>Diversity 3</i></b>
	Striped Bass	1	7.8 cm	<b><i>Total 25</i></b>
<b><i>*Catch per unit effort</i></b>				
<b><i>Seine #2</i></b>	White Perch	1	13 cm	<b><i>11:20 AM</i></b>
				<b><i>D &amp; T = 1</i></b>
<b><i>Seine #3</i></b>	Hogchoker	1	4 cm	<b><i>11:25 AM</i></b>
				<b><i>D &amp; T = 1</i></b>
<b><i>Seine #4</i></b>	Blue Crab	7	3 cm	<b><i>11:40 AM</i></b>
				<b><i>D = 1, T = 7</i></b>
	<b><i>Diversity 5</i></b>	<b><i>Total 34</i></b>	*CPUE on 25 ft. pull	*CPUE net divisor 7.62
<b><i>Seine 1</i></b>	11:00 AM	Catch 25	Length 25	*CPUE 3.3
<b><i>Seine 2</i></b>	11:20 AM	Catch 1	Length 25	*CPUE 0.13
<b><i>Seine 3</i></b>	11:25 AM	Catch 1	Length 25	*CPUE 0.13
	11:40 AM	Catch 7	Length 25	*CPUE 0.92
<b><i>Tides</i></b>	<b><i>Time</i></b>	<b><i>Depth</i></b>	<b><i>Falling/Rising</i></b>	
<b><i>Measured as distance from mark</i></b>	8:54 Am	0 cm	Set	
	9:24 AM	10 cm	Falling	
	10:24 AM	31 cm	Falling	21 cm drop
	11:57 AM	7 cm	Rising	
<b><i>Currents</i></b>	<b><i>Time</i></b>	<b><i>Cm/Sec</i></b>	<b><i>Knots</i></b>	<b><i>N/S E/F/Still</i></b>
	9:02 AM	400/60	0.13	S - Ebb
	9:05 AM	300/60	0.1	S - Ebb
	10:20 AM	520/60	0.17	S - Ebb

<b><i>Traffic</i></b>	9:03 AM	5 pleasure sailboats	Light	South
	10:34 AM	Cruise ship		South
	11:32 AM	Pleasure		South
	12:04 PM	Tugboat		North
	12:05 PM	Pleasure		South
	1210 PM	Barge		South
<b><i>Other Items</i></b>	Around 80 Canadian geese resting in shallow water/sand bar during low tide, one southbound osprey			
<b><i>Core</i></b>				
<b><i>Almanac Entry</i></b>	A foggy still morning with geese honking hidden by the fog. Each seine pull was difficult due to excessive mud close to the shore which historically has been mainly sand. Prize catch of the day was a small hogchoker moving in the mud! Students were excited by a flounder like fish in freshwater! Another fun day on the shore of the estuary!			