

**Day in the Life of the Hudson River 10/20/16 Data**  
**(Salt Front ~RM 83)**  
**RIVER MILE 97**

**Sojourner Truth/Ulster Landing State Park, Town of Ulster, Ulster Co.**

**Latitude 42°N, Longitude 73°56'W**

**Deanna Rizzo, Duane Wolff Kingston High School**

**APES 11-12<sup>th</sup> graders – 20 students, 2 adults**

**GPS 42°0'18" N - 73°56'38" W**



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

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

**Surrounding Land Use:** Beach 70%; Forested area 30%; parkland with grass and picnic area

**Shoreline:** 80% sandy, 20% rocky

**Sampling Site:** beach, altered bank with concrete bulkhead, Rip rap, brick pieces in the area, slag in the area, drainage from bulkhead north of site immediately


**Plants in water area:** no plants

**River Bottom:** sandy



<i><b>ITEM</b></i>	<i><b>Time</b></i>	<i><b>Reading 1</b></i>	<i><b>Reading 2</b></i>	<i><b>Comments</b></i>
<i><b>Physical</b></i>				
Air Temperature	10:21 AM	17°C 51°F		
	11:13 AM	19°C 65°F		
Wind Speed	AM	1 Beaufort		NE
Cloud Cover	AM	overcast	>75%	
Weather today	No precip			
Weather	Very warm and clear - dry			

recently				
<b>Water Temperature</b>	NR			
<b>Water Surface</b>	calm			
<b>Turbidity - meter</b>	NR			
<b>Chemical</b>				
DO – meter	N/R			
pH -	<b>Time</b>			<b>Average</b>
<b>Litmus paper &amp; indicator solution</b>	10:20 AM	7.8 8.5 7.8		Average 8.0
Salinity –LR quantabs	10:20 AM	36 ppm Cl- 36 ppm Cl-	65 ppm TS	
Nitrates	10:20 AM	0 ppm 0 ppm		
Phosphates	10:20 AM	Positive test	No numeric data = qualitative testing	
	10:20 AM	240 ppm 240 ppm		Average 240 ppm
<b>Fish Catch</b> 27.5' seine X 3.5 X 1/8 inch mesh	<b>Species</b>	<b>Number</b>	<b>Length of largest</b>	<b>Seine #</b>
<b>All catches</b>	21	Spottail Shiner	12 cm	<b>DIV 9</b>
<b>Fish Recorded Together</b>	21	Tessellated Darter	12 cm	<b>TOTALS 95</b>
	5	Common Shiner	10.5 cm	
	2	Yellow Perch	17 cm	
	20	Striped Bass	12 cm	
	1	Goldfish	7 cm	
	12	Bull Catfish	26 cm	
	1	Hog Choker	12 cm	
	1 2	Bluegill Sunfish	6 cm	
<b>Macro</b>	35	Blue Crab		<b>DIV 1</b> <b>TOTALS 35</b>
<b>Grand Total</b>	<b>Diversity 7</b>	<b>Total Catch 124</b>		
<b>Tides</b>	<b>Time</b>	<b>Depth</b>	<b>Rate</b>	<b>Falling/Rising</b>
	9:55 AM	0	Set	Set
	10:12 AM	49 cm	10 cm/20	Rising
	10:24 AM	87 cm	9 cm/30 min	Rising
	10:35 AM	120 cm		Rising
	11:03 AM	250 cm		Rising

	11:27 AM	400 cm		Rising
	12:15 PM	250 cm		Falling
<b>Currents</b>	<b>Time</b>	<b>Cm/Sec</b>	<b>Cm/Sec</b>	<b>N/S E/F/Still</b>
	10:19 AM	0		
	10:06 AM	152	5.1	Ebb
	10:50 AM	250	8.3	Ebb
	12:14 PM	200	6.7	Flood
<b>Traffic - Commercial</b>				
<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>N/S</b>	<b>Loaded/Light</b>
10:50AM	Barge w/tug	Red/Black	North	Light
11:09 AM	UBC Seattle	White	South	Light
11:57 AM	Barge w/ tug	White	North	Light
<b>Recreational</b>				
11:30 AM	N/R	White	South	Light
<b>Other Items</b>	Devil's heads, black walnut, seaweed, duckweed, bricks, birds, fish			
<b>Core</b>	<b>Length</b>	<b>Rare</b>	<b>Common</b>	<b>Abundant</b>
<b>11:30 AM – water 21 cm deep</b>	16 cm H <sub>2</sub> S smell Oxidized top – streak	Gravel Pebbles Freshwater Mussels Zebra mussel	Clay Mud Brick	Sand
 <p>BOTTOM                      &lt; 16 cm length &gt;                      TOP</p> <p>Streak of gray sand along bottom.</p>				