

**Day in the Life of the Hudson River 10/10/13 Data
(Salt Front RM 69.3)**

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 11th/12th graders – 34 students

GPS 42° N - 73° 56 'W



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, Rip rap, brick pieces in the area, slag in the area, drainage from bulkhead north of site immediately

Plants in water area: no plants

Water depth: N/R

River Bottom: sandy clay texture

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:05 AM	14°C 57 °F	10:39 PM	15°C °F
Wind Speed	2 Beaufort	SE		
Cloud Cover	Overcast			
Weather today	Cloudy but no rain			
Weather recently	Rain 10/7, clear and cool 10/8 and 10/9			
<i>Water Temperature</i>	9:32 AM	14.5°C °F	9:42 AM	14.5°C °F
	10:10 AM	15.2°C	12:06 PM	16°C

		°F		°F
Water Surface	Slightly choppy			
Turbidity turbidimeter	9:30 AM 10:10 AM	6 NTU 11 NTU		
Chlorophyll	9:53 AM	0.3		
Chemical				
DO – meter	9:34 AM	9.4 mg/L	14.5°C	91% saturated
	11:13 AM	16.5 mg/L	18°C	150%
pH - meter	9:51 AM	8.07 AM 8.1		8.1 average
Phosphate - Hach DR890 Colorimeter	9:42 AM 10:44 AM	6.8 ppm* 2.75 ppm		*4.8 ppm average *way high!
Nitrate - Hach DR890 Colorimeter	10:37 AM 12:31 PM	0.35 ppm 0.6 ppm	0.55 ppm 0.5 ppm	
Alkalinity	9:35 AM 10:30 AM	100 mg/L 92 mg/L		96 mg/L
Salinity – 2 methods - test strips & meter	9:30 AM 10:49 AM	40 ppm Cl- 41 ppm Cl-	40.5 average Cl-	73 ppm total salinity
Fish Catch 27.5' seine X 3.5 X 1/8 inch mesh 25-30 ft. pull	Species	Number	Length of largest	Seine #
	White Perch	2	10.5 cm	Diversity 3
	Striped Bass	15	2.7 cm	Total 18
	Bluegill	1	3 cm	
Tides	Time	Depth	Rate	Falling/Rising
	9:43 AM	63 cm	Set	
	10:05 AM	50.1 cm	0.56 cm/min	Falling
Currents	Time	Cm/Sec	Knots	N/S E/F/Still
	9:36 AM		0.05	S - Ebb
Traffic				
Other Items				
Core				
Almanac Entry				