

**Day in the Life of the Hudson River 10/10/13**  
**(Salt Front RM 69.3)**  
**RIVER MILE 84.5**

**Mills-Norrie Point Environmental Center, Staatsburgh, NY, Dutchess County**  
**Jim Herrington, Norrie Point Environmental Center**  
**Bryan Woods, Poughkeepsie High School**  
**30 High School 10-12<sup>th</sup> graders, 6 adults**  
**N412° 0248 W73° 924**

**Location:** Sampling done Norrie Cove and the SW corner of Norrie Point Env. Center Patio. East side of Hudson far from the main channel in a protected cove  
**Area:** Substantial paved areas nearby, large environmental center building adjacent to the water. Shallow cove, facing south onto the HR, bordered by RR embankment, parking lot & the environmental center.  
**Surrounding Land Use:** 95% Forested; 5% Beach  
**Sampling Site:** Banks altered, Rip Rap  
**Shoreline:** beach area, shore with bulkhead, shoreline rip rap, covered with vegetation (some duckweed on surface, water celery in the bay- mostly uprooted), banks altered for EEC building, riprap along RR tracks, collected wood and debris in shallow cove, piping entering river area  
**Plants in area:**0-5%  
**River Bottom** – weedy, muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>	Time			
Air Temperature	10:10 AM 10:50 AM 11:20 AM	13.5°C 14.4 14.7	59.9°F 56.8 59.1	
Wind Speed	10:10 AM 10:50 AM 11:20 AM	1.5 m/S 1.1 m/S 1.5 m/S		
Cloud Cover	Cloudy			
Weather today	Cloudy and threat of rain			
Weather recently	Rain and cold			
Water calm				
<i>Water Temperature</i>	10:10 AM 10:50 AM 11:20 AM	20.1°C 18.9 18.8	68.1°F 66 66.3	
<i>Turbidity</i>	10:10 AM 10:50 AM 11:20 AM	42.8 cm 44.8 40.8	46.8 cm 28.8 40.5	
<i>Chlorophyll</i>				2
<i>Chemical</i>				
DO	10:10 AM	8 mg/L		

(drop count)	10:50 AM 11:20 AM	8 mg/L 8 mg/L		
pH	10:10 AM 10:50 AM 11:20 AM	7.1 7.4 7.2		
<b>Salinity</b>	<b>Time</b>	<b>Chloride</b>	<b>Total Salinity</b>	
Quantabs	10:10 AM 10:50 AM 11:20 AM	35 ppm 28 ppm 28 ppm	63 ppm 51 ppm 51 ppm	
Conductivity	10:10 AM 10:50 AM 11:20 AM	<b>287 <math>\mu</math>S</b> <b>292 <math>\mu</math>S</b> <b>301 <math>\mu</math>S</b>		

<b><i>FISH TOTALS;</i></b>	<b>Seine #1</b>	<b>Seine #2</b>	<b>Seine #3</b>	<b>Totals</b>
<b><i>Banded Killifish</i></b>	<b>11</b>	<b>7</b>	<b>3</b>	<b>21</b>
<b><i>Pumpkinseed</i></b>	<b>5</b>	<b>1</b>	<b>3</b>	<b>9</b>
<b><i>Yellow Perch</i></b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>2</b>
<b><i>Redbreast Sunfish</i></b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>5</b>
<b><i>Y-o-y Sunfish</i></b>	<b>6</b>	<b>0</b>	<b>2</b>	<b>8</b>
<b><i>Tessellated Darter</i></b>	<b>11</b>	<b>5</b>	<b>1</b>	<b>17</b>
<b><i>Bluegill Sunfish</i></b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>5</b>
<b><i>White Perch</i></b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>
<b><i>River Herring</i></b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>
<b><i>Shad</i></b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
<b><i>Blue Crab</i></b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>5</b>
<b><i>Totals</i></b>	<b>49</b>	<b>17</b>	<b>12</b>	<b>78</b>
<b><i>Diversity</i></b>	<b>11</b>	<b>Totals</b>	<b>78</b>	
<b><i>Tides</i></b>	<b><i>time</i></b>	<b><i>cm</i></b>	<b><i>Rising/Falling</i></b>	<b><i>cm</i></b>
	10:10 AM	18 cm		
	10:50 AM	13 cm		
	11:20AM	9.5 cm		
<b><i>Currents</i></b>	10:10 AM 10:50 AM 11:20 AM	South Slight S. Slack		
<b><i>Shipping</i></b>				