**Day in the Life of the Hudson River 10/20/16 Data**  
(Saltfront ~ RM 83)  
**RIVER MILE 117 (b)**  
Shelley Forester, Cary Institute of Ecosystem Studies  
Jenny Jeffrey, Taconic Hills High School, Taconic Hills, NY  
4 students, AP Environmental Science, 1 adult  
Latitude – N 42°25’ Latitude – W -73°80’

**Location:** Hudson River Waterfront Park, City of Hudson, Columbia County  
**Area:** 1st dock in the waterfront property used for fishing, marina, picnics, large grassy area, just north of the old quarry site, has a parking lot  
**Surrounding Land Use:** 50% Industrial/Commercial, 50% grassy park  
**Sampling Site:** waterfront with banks altered to include wooden & concrete bulkheads and large riprap on shoreline,  
**Plants in area:** Moss covering approximately 20% of shoreline  
**Water - Calm**  
**River Bottom** – bottom rocky

<table>
<thead>
<tr>
<th>Physical</th>
<th>Time</th>
<th>Reading 1</th>
<th>Reading 2</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Temperature</td>
<td>9:55 AM</td>
<td>18.8°C</td>
<td>66°F</td>
<td></td>
</tr>
<tr>
<td>Cloud Cover</td>
<td>9:52 AM</td>
<td>Partly cloudy</td>
<td></td>
<td></td>
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<tr>
<td>Wind –</td>
<td>Time</td>
<td>Beaufort</td>
<td>MPH</td>
<td>Direction</td>
</tr>
<tr>
<td>9:48 AM</td>
<td>1</td>
<td>0.5 m/s</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td>Weather today</td>
<td>No Rain</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Weather recently</td>
<td>Warm and dry</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Water</td>
<td>calm</td>
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</tbody>
</table>

**Water Temperature –**

<table>
<thead>
<tr>
<th>Time</th>
<th>Temperature</th>
<th>DO ppm</th>
<th>% sat.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:22 AM</td>
<td>16.6</td>
<td>8.0</td>
<td>40%</td>
</tr>
<tr>
<td>9:24 AM</td>
<td>16.8</td>
<td>7.0</td>
<td>35</td>
</tr>
<tr>
<td>9:35 AM</td>
<td>16.8</td>
<td>10.0</td>
<td>100</td>
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</table>

**Turbidity –**

<table>
<thead>
<tr>
<th>Time</th>
<th>Turbidity</th>
<th>Secchi – 120 cm avg</th>
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</thead>
<tbody>
<tr>
<td>9:13 AM</td>
<td>130 cm</td>
<td></td>
</tr>
<tr>
<td>9:13 AM</td>
<td>130 cm</td>
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</tr>
<tr>
<td>9:13 AM</td>
<td>100 cm</td>
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**Chemical**

<table>
<thead>
<tr>
<th>Time</th>
<th>Temp C</th>
<th>DO ppm</th>
<th>% sat.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DO –</td>
<td>9:22 AM</td>
<td>16.6</td>
<td>8.0</td>
</tr>
<tr>
<td>9:24 AM</td>
<td>16.8</td>
<td>7.0</td>
<td>35</td>
</tr>
<tr>
<td>9:35 AM</td>
<td>16.8</td>
<td>10.0</td>
<td>100</td>
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<tr>
<td>pH – Color</td>
<td>10:38 AM</td>
<td>6, 5, 6</td>
<td>Avg. 5.75</td>
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<tr>
<td>Match</td>
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<td>Time</td>
<td>%</td>
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<tr>
<td>Salinity Quantabs</td>
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<td>10:41 AM</td>
<td>40,40,40 ppm</td>
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<td>Alkalinity</td>
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<td>10:51 am</td>
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<td></td>
<td>10:42 am</td>
<td>15, 15, 15 ppm</td>
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<td>10:48 am</td>
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<tr>
<td>Fish Catch</td>
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<td>10:41 am</td>
<td>40,40,40 ppm</td>
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<tr>
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<td></td>
<td>10:42 am</td>
<td>20 ppm</td>
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<td>10:48 am</td>
<td>15, 15, 15 ppm</td>
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<td>Diversity 4</td>
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<td>12:50 PM</td>
<td>Banded Killifish</td>
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<td>Total Catch</td>
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<td>Spottail Shiner</td>
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<td>Bluegill Sunfish</td>
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<td></td>
<td></td>
<td>White Perch</td>
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<tr>
<td>Tides</td>
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<td>10:05 AM</td>
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<td>Vegetation</td>
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<td>Traffic - commercial</td>
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<td>10:17 AM</td>
<td>Noelle Cutler</td>
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