

**A Day in the Life of the Hudson River 10/10/13 Data
(Salt Front RM 69.3)
RIVER MILE 61W
Newburgh Landing, Newburgh
Jim Uhlig, Storm King School, 12th grade – 8 students
41.509 degrees Latitude 74.00 degrees Longitude**

Location: Newburgh Landing, Newburgh waterfront, Orange County NY

Area: Newburgh waterfront near the Torches, piers and riprap

Surrounding Land Use: 100% Urban/Industrial

Sampling Site Shoreline: shoreline bulkheaded, large rip rap, debris in area such as broken concrete

Plants in area:

Water depth: 15 ft.

Bottom Surface: rocky and gravelly

Plants in water –0%

| <i>ITEM</i> | <i>Time</i> | <i>Reading 1</i> | <i>Reading 2</i> | <i>Comments</i> |
|---|-----------------------------------|-----------------------|--------------------------|-------------------------------------|
| <i>Physical</i> | | | | |
| Air Temperature | 2:00 PM | 63°F | | |
| Wind Speed | 2 Beaufort | | | |
| Cloud Cover | Overcast | | Water Choppy | |
| Weather today | No rain but overcast and cool | | | |
| Weather recently | Some rain previous 2 days | | | |
| <i>Water Temperature</i> | 1:55 PM | 16°C 15°C 15°C | | Avg. 15.34°C |
| <i>Water calm</i> | yes | | | |
| <i>Turbidity - Secchi disk</i> | 1:45 PM | 35 inches 36 36 | 2:17 PM | 32 inches 31 inches 32 inches |
| <i>Chlorophyll</i> | 1:50 PM | 0.3 | | |
| <i>Chemical</i> | | | | |
| DO (drop count kit) | 2:00 PM | 5 mg/L | 19°C | 60% |
| pH litmus paper | 2:00 PM | 7.5 | | |
| Salinity - quantabs | 2:00 PM | 2.4 on strip | 74 Cl- ppm | 134 ppm total salinity |
| <i>Fish Catch</i> 20 ft. X4 seine – 1 pull | <i>Number Caught</i> – no fish | <i>Species</i> – | <i>CPUE</i> - 0 catch | <i>Seine</i> |
| <i>Tides</i> | 1:40 PM | 30 inches | | |
| | Rising 2:30 PM | 20 inches | 10 inches/50 | 0.5 cm/min |

| | | | | |
|-----------------|---------|---------------------|--------------|---------------|
| | | | min | |
| <i>Currents</i> | 2:00 | 1000 cm/30 sec | 33.34 cm/sec | North - Flood |
| <i>Boats</i> | 2:00 PM | Sloop Clearwater | Across river | |