

**A Day in the Life of the Hudson River 10/10/13 Data
(Salt Front RM 69.3)
RIVER MILE 102
Saugerties Light House, Town of Saugerties, Ulster Co.
Mary Henry, Woodstock Day School
Grades 5th, 12 students and 3 adults**

Location: Saugerties Light house @ northern bank of peninsula

Area: Pier of sorts, boating, fishing, swimming beach, picnics, has a building with restrooms

Surrounding Land Use: Forested 90%, Beach 10%

Sampling Site: beach, bulkhead altered banks years ago, covered with vegetation, collected wood/debris in area, shoreline riprap at lighthouse, shoreline is sandy & muddy

Water depth:

River Bottom : Sandy

Plants in area:

| <i>ITEM</i> | <i>Time</i> | <i>Reading 1</i> | <i>Reading 2</i> | <i>Comments</i> |
|--|-----------------------------------|------------------|-----------------------|-----------------|
| <i>Physical</i> | | | | |
| Air Temperature | 11:00 AM | 55°F 12.78°C | | |
| | 11:30 AM | 55°F 12.78°C | | |
| | 12:00 PM | 54 °F 12.22°C | | |
| Wind Speed | 11:30 AM | Beaufort #1 | 1-3 mph | North |
| Cloud Cover | overcast | | | |
| Weather today | Drizzle/light rain occasional | | | |
| Weather recently | Rain, sunny and warmer than usual | | | |
| <i>Water Temperature</i> | 11:00 AM | 17°C | | 2 ft. water |
| Taken in direct sun within 100 ft. of lighthouse | 11:30 AM | 15°C | | 2 ft. water |
| | 12:00 PM | 16°C | | 2 ft. water |
| <i>Water Calm or Choppy</i> | calm | | | |
| <i>Turbidity</i> secchi | 12:40 PM | 75 cm | Water seemed 'cloudy' | |
| <i>Chlorophyll</i> | 11:00 AM | 0.7 | | |
| <i>Chemical</i> | | | | |
| DO (ampules) | 11:15 AM | 8 mg/L | 17°C | 85% |
| | 12:30 PM | 8 mg/L | 16°C | 80% |
| pH – color match kit | 11:00 AM 12:30 PM | 8.0 8.0 | | |
| Salinity – | N/R | | | |

| | | | | |
|--------------------------------------|-------------------------------|-----------------------------------|---------------------------------|-----------------------------|
| Quantabs - | | | | |
| <i>Fish Catch –30 ft. net</i> | <i>Number Caught -</i> | <i>Species – diversity</i> | <i>Length of largest</i> | <i>Seining data</i> |
| 11:30 AM | NO CATCH!! | | | |
| <i>Tides</i> | <i>Time</i> | <i>Height</i> | <i>Falling/Rising</i> | |
| | 11:00 AM | 42 cm | | |
| | 11:30 AM | 28 | Falling | |
| | 12:00 PM | 29 | Falling | |
| | 12:30 PM | 16 | Falling | |
| | 1:00 PM | 12 | Falling | |
| <i>Currents</i> | <i>Time</i> | <i>Cm/60 secs</i> | <i>Cm/sec</i> | <i>N/S and E/F/S</i> |
| | N/R | | | |
| <i>Core</i> | <i>Description</i> | <i>Rare</i> | <i>Common</i> | <i>Abundant</i> |
| | Oil appearance | | Mud Sand Gravel Slag | Clay Pebbles |
| <i>Ships</i> | 12:30 PM | Barge | Black | Southbound/ Light |
| <i>Other</i> | cormorants | | | |