**Day in the Life of the Hudson River 10/20/16 Data   
(Salt Front ~RM 83)**

**RIVER MILE 19**

**Alpine Boat Basin**

**Christina Fehre, Alpine Park, Palisades Interstate Park**

**Brian Mohan, Clearwater**

**Lisa, Wolfelsperger, Alpine Elementary School**

**Alpine NJ – 6th grade – 12 students, (5 adults total)**

**N 40.9458**°**– W -73.9183**°

**Location:** North end of the Alpine Boat Basin, adjacent to a sandy beach area

**Area:** Pier, Forested, parking lot, used for picnics, boats, fishing and education programs

**Surrounding Land Use:** 75%Forested (at the foot of the Palisades, 10% Man made Sandy Beach; 15%, recreationally developed pier and park area

**Sampling Site:** sandybeach, banks altered, rip rap, bulkhead, pier, concrete

**Plants in area:** none in water

**River Bottom** – shallow depth - sandy

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 9:43 AM | | 69.8 °F  21°C | 10:43 AM | 71.6 °F  22°C |
| Wind Speed | Beaufort 33 | | 7-10 kts | 8-12 mph | East |
| Cloud Cover | Mostly Cloudy | |  |  |  |
| Weather today | No rain | | | | |
| Weather recently | Very warm | | | | |
| ***Water*** | calm | | | | |
| ***Water Temperature***  11:20 AM | 27°C\*  80.6 °F\*  Reported | HRECOS notes it was closer to 59°F or 15°C | |  |  |
| ***Turbidity – short site tube*** | 10:17 AM | 50 cm  45 cm  60 cm | | **Average**  **51.7 cm** |  |
| ***Chemical*** | **Not read onsite** | **HRECOS** | |  |  |
| DO -  Drop count kits | See HRECOS below | 8.2 ppm | |  |  |
| pH – test strips | See below | ~7.4 | |  |  |
| Salinity -hydrometer | 10:30 AM | 16 ppt  17 ppt | | Average 16.5 ppt |  |
| ***Fish Catch -*** 8X4 ft. seine net | ***Number Caught*** | ***Species*** | | ***Size*** | ***Seine*** |
| 9:30-noon | 1 | Alewife Herring | | ~15 cm |  |
|  | 10 | \*Atlantic Silverside | | ~9 cm | \*reported as shiner but determined as Atlantic Silversides |
| **TOTAL FISH CATCH** | **Abundance 11** | **Diversity 2** | |  |  |
|  | 7 blue crab | 1 male  6 female (1 female was a softshell) | |  |  |
| **TOTAL MACRO CATCH** | **Abundance 7** | **Diversity 1** | |  |  |
| ***Tides*** | NR |  | |  |  |
| ***Currents-*** | **Time** | **Cm/Sec** | | **Kts** |  |
| ***A pier juts out and we are not in the main stem of the Hudson River*** | 9:54 AM  9:57 AM  10:00 AM  10:02 AM | 333  362.5  450  337.5 | | 6.48  7.05  8.75  6.57 | N/Flood  N/Flood  N/Flood  N/Flood |
| ***Sediment Core:*** | ***Length in cm*** | ***Rare*** | | ***Common*** | ***Abundant*** |
|  | ~ 7.5 cm | -Mud  -Pebbles  -Living vegetation | | - Gravel | - Sand |
| ***Shipping - commercial*** | 9:36 AM  9:46 AM | Riverkeeper  K-Sea - brown | | North  South | Light  Loaded |
| ***Other Items*** | 40 devil heads from water chestnut washed onto beach | ~ 15 mallards | |  |  |