**Day in the Life of the Hudson River 10/20/16 Data**

**Salt Front RM 83)**

 **RIVER MILE 9**

**Pier 125**

**N 40, W-73**

**Diane Lennon, Columbia Secondary School, 35 students 12th grade college environmental class, 1 adults**

**Location:** Pier 125, is a pier used for boating and fishing

**Area:** Pier – made of concrete.

**Surrounding Land Use:** 100% Industrial Commercial

**Sampling Site:** Recreational pier – rocks near the edge, banks altered – all hard edged concrete bulkhead.

**Plants in area:** Trees line the area but no plants in the water.

**Water:** Calm

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Readings*** |  |  |
| ***Physical*** |   |  |  |  |
| Air Temperature | 1:49 PM | 22.4°C | 72°F |  |
| Wind Speed | 1:56 PM | Beaufort #2  | 4 mph | North |
| Cloud Cover | 1:50 PM  | Overcast  | >75%  |  |
| Weather today | Overcast |  |  |  |
| Weather recently | No rain, unseasonably warm – 70=80 degrees |
| ***Water Temperature*** | 1:35 PM1:45 PM | 18°C17°C |  | Average 17.5°C |
| ***Turbidity short site tube*** | 1:26 PM | 40 cm |  | Water was surprisingly clear with only one drop the tap water matched the river water.  |
| ***Turbidity short site tube*** | 1:26 PM | 5 JTU |  |
| ***Chemical*** | **Time**  | **ppm** | **Temp** | **% Sat** |
| DO  | 1:40 PM  | 6ppm | 17°C | 60 % - |
| pHcolor match kit  | 1:30 PM1:35 PM1:42 PM1:47 PM  | 7777 |  |  |
| Salinity – hydrometer | 1:55 PM | 25.8 ppt26.4 ppt24.3 ppt | 17 °C |  |
|  Nitrates | 1:35 PM | 2.0 ppm |  |  |
| Phosphates | 1:45 PM | 0 ppm |  |  |
| Alkalinity  | 1:45 PM | 60 ppm |  |  |
| ***Tides - water depth***  | 1:30 PM1:45 PM | 233.61 cm246.38 cm | 0.85 cm/min |  |
| ***Currents*** | ***Time***1:36 PM1:40 PM1:45 PM  | ***cm/30 sec***  | ***Cm/sec*** | ***Ebb/Flood/still***StillStillStill |
| ***Shipping – Commercial***  | 1:49 PM 1:50 PM2:00 PM | TanWhiteUS Army Corps of Eng. | SouthboundNorthboundBlack/Yellow Southbound | LightLoadedLoaded |
| ***Shipping Recreational***  | 1:40 PM | Black | North | Light |
| ***Observations*** | Power plant nearby & many commercial ships and boats that may impact our sampling. Saw many seagulls & pigeons  |