**Day in the Life of the Hudson River 10/20/15 Data**

**RIVER MILE 9**

**Pier 125**

**N 40, W-73**

**Diane Lennon, Columbia Secondary School, 31 students 11th grade, 2 adults**

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

**Area:** Pier –sampled at mid pier away from street and bulkhead

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

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

**Plants in area:** No plants

**Water:** Calm but sometimes choppy

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| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Readings*** |  |  |
| ***Physical*** |   |  |  |  |
| Air Temperature | 8:31AM8:36 AM8:41 AM | 11.7°C10°C10°C | 52°F5050 |  |
| Wind Speed | 8:30 AM | Very windy  |  | South |
| Cloud Cover | 8:32 AM  | Clear  | <25% cloud cover  |  |
| Weather today | Clear |  | ***Water surface*** |  |
| Weather recently | Cold no rain |
| ***Water Temperature*** | 8:34 AM | 11°C14°C14°C |  | Average 13°C |
| ***Turbidity******Secchi***  | 8:30 AM | 90 cm |  |  |
| ***Turbidity short site tube*** | 9:20 AM | 10 JTU |  |  |
| ***Chemical*** | **Time**  | **ppm** | **Temp** | **% Sat** |
| DO  | 8:34 AM | 15ppm | 13°C | 140 % - |
| pHkit as above | 8:35 AM  | 7 |  |  |
|  Nitrates | 8:35 AM | 0.5 ppm |  |  |
| Phosphates | 8:35 AM | 0.61 ppm |  |  |
| Alkalinity  | 8:35 AM | 141 ppm |  |  |
| ***Fish Catch*** | Time | Species | # caught | Size |
| ***Tides - water depth***  | ***NR*** |  |  |  |
| ***Currents*** | ***Time***8:30 AM  | ***cm/30 sec***30.48  | ***Cm/sec***1.016 | ***Kts***0.0198 |
| ***Shipping – Commercial***  | 8:27 AM 8:308:45 | Barge – blackBarge - blackFerry - white | Not movingNot movingnorth - | LightLoaded? |
| ***Shipping Recreational***  | 8:20 AM8:43 AM | Too far to see speedboat- white | North South |  |
| ***Observations*** | Wastewater treatment plant just north of the pier. Saw seagulls, pigeons and squirrels |