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

**RIVER MILE 9**

**West Harlem Piers @ 125th street**

**Ben Raikes, The School at Columbia, 55 students 6th grade, 8 adults**

**Lat 40.8198, Lon. -73.9606**

**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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Readings*** |  |  |
| ***Physical*** |   |  |  |  |
| Air Temperature | 10:00 AM2:00 PM | 13°C20°C |  |  |
| Wind Speed | 10:00 AM | 8 mph  | SW |  |
| Cloud Cover |  | Clear  | <25% cloud cover  |  |
| Weather today | Clear, no rain |  | ***Water surface*** | choppy |
| 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 – drop count test kit | 10:00 AM | 4ppm | 15°C | 42 % - |
| pHkit as above | 10:30 AM  | 777 |  |  |
|  Salinity | 10:00 AM – 2PM | 14 ppt |  |  |
| ***Tides - water depth***  | ***Time*** | ***Rise/Fall/Unch*** | ***Height cm*** |  |
| ***\*Measuring from height of top rail of pier to water surface. Larger #s equals lower tide. Waves make water level hard to judge.***  | 10:32 AM10:54 AM11:23 AM11:45 AM12:47 PM1:04 PM1:27 PM1:40 PM | 1st readingFallingRisingRisingUnchangedFalling RisingFalling | 244317312305305330290297 | ***\*note – LT was ~ 9AM so tide was rising during full sampling (see below HRECOS)***  |
| ***Currents******\*Readings were taken close to the shore and we were limited by how far we could throw.***  | ***Time***10:00 AM10:35 AM11:00 AM11:30 AM12:30 PM12:50 PM1:10 PM1:30 PM  | ***Cm/ sec***12.5 12.77.311.829.330.028.026.0 | ***N/S***NSNNNNNN | ***Ebb/Flood***FEFFFFFF |

***Tides for Pier 84 station just south of this sampling location. Shows tides rising during full session at the river.***

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