**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

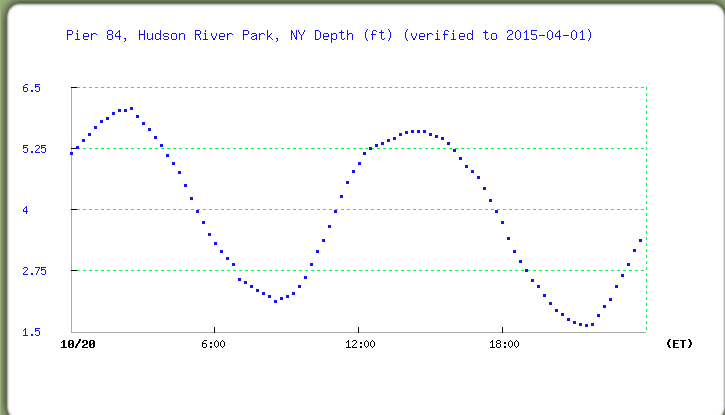
**Sampling Site:** Recreational pier – rocks near the edge, banks altered – all hard edged concrete bulkhead, vegetation

**Plants in area:** No plants

**Water:** Calm but sometimes choppy

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Readings*** |  |  |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 10:00 AM  2:00 PM | | 13°C  20°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°C  14°C  14°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 % - |
| pH  kit as above | 10:30 AM | 7  7  7 | |  |  |
| 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 AM  10:54 AM  11:23 AM  11:45 AM  12:47 PM  1:04 PM  1:27 PM  1:40 PM | 1st reading  Falling  Rising  Rising  Unchanged  Falling  Rising  Falling | | 244  317  312  305  305  330  290  297 | ***\*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 AM  10:35 AM  11:00 AM  11:30 AM  12:30 PM  12:50 PM  1:10 PM  1:30 PM | ***Cm/ sec***  12.5  12.7  7.3  11.8  29.3  30.0  28.0  26.0 | | ***N/S***  N  S  N  N  N  N  N  N | ***Ebb/Flood***  F  E  F  F  F  F  F  F |

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

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