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

**RIVER MILE -4.2**

**Bayridge American Veterans’ Memorial Pier**

**N 40. 38’22.-416 , W-74 .2’18.4308**

**Alicia Smith & International School of Brooklyn**

**22 Fifth graders, 4 adults**

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**View from the pier. Owl Sewage treatment plant visible in the foreground.**

**Location:** Pier American Veterans’ Memorial Pier, by highway, Park, 2 water treatment plants

**Area:** Pier – bulkhead – mainly concrete & wood. Two parks – Owl’s head and Shore Road Park

**Surrounding Land Use:** 70% urban/residential, 10% Industrial Commercial, 20% park

**Sampling Site:** Recreational pier – rocks near the edge, banks altered /riprap, all hard edged, steep wall dividing water from land, pipe entering water from treatment plant

**Shoreline:** Rocky

**Depth:** could not see bottom

**Plants in area:** No plants

**Water:** Calm

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Readings*** |  |  |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 11:21 AM  11:45 AM  12:06 PM  12:37 PM | | 18.9°C  17.2°C  18.3°C  19.8 °C | 66 °F  63 °F  65°F  68°F |  |
| Wind Speed | 11:21 AM | | Beaufort 3 | 9 kts | E/SE |
| Cloud Cover | 11:21-12:31 | | Clear all day | <25% cloud cover all day |  |
| Weather today | Clear no rain, warm and windy | |  | ***Water surface*** |  |
| Weather recently | No rain for past 3 days. Sunday 10/18 unusually cold and windy. Monday 10/19 seasonal temperatures but still a bit windy. | | | | |
| ***Water Temperature*** | 11:21 AM  11:42 AM  12:26 PM | 18°C  18°C  18°C | | 64 °F  64 °F  64 °F | <1 ft. depth, shade from pier, water choppy |
| ***Turbidity*** |  |  | |  |  |
| ***Chemical*** | **Time** | **ppm** | | **Temp** | **% Sat** |
| DO  Drop count kit | 11:21 AM | 7 | | 18°C | 72% |
| pH  meter | 11:21 AM  11:42 AM  12:20 PM  12:34 PM | 7.95  7.96  7.96  7.96 | |  |  |
| Salinity -hydrometer | 11:21 AM  11:42 AM  12:20 PM  12:34 PM | 25.5 ppt  26 ppt  25 ppt  25 pptå | |  |  |
| ***Fish Catch*** | Time | Species | | # caught | Size |
|  |  |  | |  |  |
| ***Tides - water depth*** | ***Time*** | ***Distance to water*** | | ***Rate of change*** | ***Flood or Ebb*** |
| ***Measuring down from pier using a secchi disk*** | 11:20 AM  11:40 AM  11:56 AM  12:15 PM  12:30 PM | 300 cm  225 cm  275 cm  350 cm | | Flooding  Ebbing  Ebbing |  |
| ***Currents*** | ***Time*** | ***Cm/30 sec*** | | ***Cm/sec*** | ***Knots &***  ***Ebb/Flood*** |
|  | 11:21 AM | 1676.4 | | 55.88 | 1.09kts F |
|  | 11:45 AM | 411.48 | | 18.75 | 0.24kts F |
|  | 12:06 PM | 701.04 | | 23.37 | 0.45kts F |
|  | 12:31 PM | 792.48 | | 0.51 | 0.51kts F |
| Note on recording sheet: Wind blowing east, current moving east, tidal flow moving east up the east river. Ebb on the Hudson. | | | | | |
| ***Traffic- Commercial*** | 11:19-12:40 | 17-20 boats visible in area | | Mainly cargo & ferry | 12:02 – 1 police boat |
| ***Recreational Traffic*** | 11:19 AM  11:19 AM  12:08 PM  12:26 PM | Sailboat speedboat  Speedboat  sailboat | |  |  |
| ***Observations*** | Observed gatherings of ducks and gulls.  Oyster cage hanging from pier into the water | | | | |