Day in the Life of the Hudson River 10/16/14 Data

(Salt Front RM 65.9)

**RIVER MILE 2**

**Chris Anderson - The River Project**

**Bob Wallace - NYU**

**Karen Johnson, Vanessa Jump, Teachers for the**

**3rd grade Trevor Day School – 55 students and 12 adults**

**Latitude N 40.7282554N Longitude -74.014880 W\***

**(\*Floating dock off Pier 40 where water samples were collected)**

**Location: Pier 40 Hudson River (also called North River)**

**Area:** Large urban pier with many sports facilities: athletic fields, kayaking and boathouse, seasonal moorings available, parking, fishing on the pier, benches & picnic tables for the public

**Surrounding Land Use:** 50% Urban/residential; 50% urban/Industrial **-** parking lot **–** area used for picnics, boating, fishing

**Sampling Site:** Banks altered; concrete & wood pilings, pier extends into river/cement bulkhead

**Shoreline:** Rocky

**NOTE:** This highly urban site is just west of the busy Westside Highway – it is the largest pier in Hudson River Park (with a 14 acre footprint); Pier 40 is used for recreation; school groups use the athletic fields; there are 3 public boathouses; there are many people by on the river’s edge: jogging, bike riding, walking.

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| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading F*** | ***Reading C*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 11:08 AM | | 54.68F | 12.6C |  |
| Wind Speed | ***Time*** | | ***Beaufort Chart*** | ***Kestral*** |  |
|  | 11:08 AM | |  | 1.7 (unit?) |  |
| Cloud Cover | Overcast @ noon | | | | |
| Weather today | 12:00 PM light rain, humid | | | | |
| Weather recently | Rain last night – heavy – fair weather last few days | | | | |
| Water | calm | | | | |
| ***Water Temperature -4 feet of water*** | 11:10 AM  11:21 AM  11:34 AM | 57.2 F  57.2 F  62.6 F | | 14C  14C  17C | Average – 59F  15 °C  off of pier - overcast |
| ***Turbidity (long site tube*** | 11:00 AM | 76.8 cm | |  |  |
| ***Chlorophyll*** |  |  | |  |  |
| ***Chemical*** | **TIME** | **TEMP.** | | **PPM** | **% SAT.** |
| DO:  Error in reading |  |  | |  |  |
| pH – test strips | 11:06 AM  11:17 AM  11:29 AM  11:45 AM | 7  7  6.5  7.5 | |  | Average 7 |
| Salinity – hydrometer - | 11:06 AM  11:17 AM  11:29 AM  11:45 AM | 24 ppt  26  24  28 | |  | Average 25.5 ppt |
| **Biologic** | Lots | Diatoms | |  |  |
| ***Boat Traffic –***  ***Commercial*** | 11:06 AM  11:10 AM  11:25 AM | Watertrail  FDNY speedboat  NYwaterway | | Yellow  red  Blue/Red | Northbound–light  Southbound-light  Northbound-light |
| ***Boat Traffic –***  ***Recreational*** | 11:04 AM  11:30 AM | Circleline  Circleline | | Orange  Orange | Southound-loaded  Northbound-loaded |
| ***Other Observations*** | The pier is tidy and concrete. There are small pieces of wood that likely washed up in a storm. Birds visible | | | | |