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

**RIVER MILE 138 – Henry Hudson Park**

**Mary Cosgrove, 3 faculty & 8 students, Mt. St. Rose College**

**Susan Schiavoni, Delaware Community School – 25, 3rd grade elementary students, 2 teachers,**

**Coordinates: 42.64 N, 73.74 W**

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**Location:** Waterfront of Henry Hudson Park

**Area:** Park/Boat launch,

**Surrounding Land Use**: 100% parkland with 75% vegetated coverage – grassy, parking lot, used for picnics, boating, fishing

**Sampling Site:** Banks altered, riprap, bulkheaded -rocky

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| ***ITEM***  | ***Time***  | ***Reading 1***  | ***Reading 2***  | ***Comments***  |
| ***Physical***  | ***Time***  | ***Temp***  | ***Wind Speed***  | ***Weather today***  |
| Air Temperature  | 10:00 AM | 60⁰ F20⁰ C | 1-3 Beaufort 1.7 m/sec Anemometer | Chilly, cold, cloudy, windy |
|  | 10:15AM | 55⁰ F10⁰ C | 1-3 Beaufort 1 m/sec Anemometer | Cold, cloudy, little rain, windy |
|  | 10:30 AM | 60⁰ F17⁰ C | 1-3 Beaufort 2 m/sec Anemometer  | Rain/Cold/Windy |
|  | 10:45 AM | 50⁰ F15 ⁰ C | 1-3 Beaufort 0.8 m/sec Anemometer  | Cold, cloudy , windy |
|  | 11:00 AM | 61⁰ F20⁰ C | 1-3 Beaufort 1.7 m/sec Anemometer  | Cloudy, cold, windy |
| Weather last 3 days  | Rainy, cool  |  |  |
| ***Water Temperature***  | 10:11 AM10:23 AM10:36AM10:48 AM10:57 AM | 10⁰ C10101012 | 50⁰ F50505052 |  |
| ***Turbidity*** Large site tube  | 10:30 AM | 11 cm |  |  |
|  | 10:42 AM | 9 cm |  |  |
|  | 10:57 AM | 9 cm |  |  |
|  | 11:14 AM | 10 cm |  |  |
|  | 11:25 AM | 12 cm |  |  |
|  | 11:38 AM | 11 cm |  |  |
| ***Chlorophyll***  | 10:17 AM | 0.3, 0.3, 0.7 | **Averages** | 0.4 |
|  | 10:30 AM | 0.1, 0.2, 0.2 |  | 0.17 |
|  | 10:40 AM | 0.1, 0.1, 0.1  |  | 0.1 |
|  | 10:50 AM | 0.3, 0.3, 0.3 |  | 0.3 |
|  | 11:02 AM | 0.3, 0.3 |  | 0.3 |
| **DO -Drop count**  | 10:16 AM10:28 AM10:40 AM10:52 AM11:05 AM | 10C10C10C14C10C | 10 ppm7 ppm9 ppm9 ppm5 ppm | 85% saturation60808045 |
| pH | 10:11 AM10:23 AM10:48 AM10:57 AM | 7.87.37,47.8 |  |  |
| Salinity –  | 10:11 AM10:23 AM10:36 AM10:48 AM10:57 AM | 0.12 ppt0.1350.150.150.15 | 120ppm135 ppm150 ppm150 ppm150 ppm |  |
| Tides - Time start | Time read | Height start | Height end | Total Change |
| 10:17 AM10:25 AM10:35 AM10:49 AM  | 10:20 AM10:28 AM10:38 AM10:51 AM | 44 cm40 cm40 cm37 cm | 38 cm - Ebb42 cm Fld\*35 cm Ebb30 cm Ebb\*expect wave  | 6 cm loss(2 cm gain)5 cm loss7 cm lossTotal loss 14 cm |
| Currents  | 10:17 AM10:25 AM10:35 AM10:49 AM |  | NorthSouthNorthSouth |  |