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

**RIVER MILE 144**

**Rensselaer Boat Launch, Forbes Rd., Rensselaer, NY**

**Leah Penniman, Tech Valley High School - 9th grade**

**Environmental Science & Geography – 32 students, 2 Adults**

|  |  |
| --- | --- |
| **TechValleyIMG_0716** | **TechValleyIMG_2035** |

**Location:** Rensselaer Boat Launch

**Area:** Boat launch – beach area

**Surrounding Land Use:** Boat launch with small beach, wooded, landscaped, adjacent to urban residential area

**Sampling Site:** boat launch with surrounding beach area

**Plants in area:**

**Water depth**: unknown

**River Bottom :**

**Times:** **All sampling 12:30-2:15 PM**

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| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Average Readings -*** |  | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 12:30 PM-2:15 PM | | 13°C |  |  |
| Wind Speed |  | |  |  | |
| Cloud Cover | Cloudy | |  |  |  |
| Weather today | Foggy and wet | | | | |
| Weather recently | Some rain and humid | | | | |
| ***Water*** | calm |  | |  |  |
| ***Water Temperature – student built thermometers*** |  | 12.25°C | |  |  |
| ***Turbidity (Small site tube LaMotte)*** |  | 30 JTU | |  |  |
| ***Chemical*** |  |  | |  |  |
| DO (chemets color comparator) |  | 8.6 ppm | | 97.3% saturation |  |
| pH – meter (Flinn) |  | 6.91 | |  |  |
| Phosphate -  Chemets |  | 0.7 mg/L | |  |  |
| Nitrate –  Chemets |  | 0.9 ppm | |  |  |
| Alkalinity |  | 47.6 ppm | |  |  |
| Salinity\* Lamotte kit? |  | Results not realistic | |  |  |
| Electrical Conductivity |  | 272.75 uS | | microseimens |  |
| ***Coliform***  ***Petrifilm plate 1 ml water***  *• stated range is based on colonies per 100 ml sample* |  | 7587.5 average | |  |  |
| ***Shipping Traffic*** | 1 | BOAT | |  |  |