**Snapshot Day 10/10/13 Data**

**(Salt Front RM 69.3)**

**RIVER MILE 35**

**Croton Point Park, Croton on Hudson**

**Debborah Ashley, New Visions Environmental Science and Sustainability, BOCES, 4 students, 12th grade, 3 adults**

**Danielle Jackson, Ossining High School, 14 Students**

**Latitude 41N Longitude 73.5 W**

**Location:** Mother’s Lap, Croton Park NY

**Area:** Rocky beach surrounded by rising forested land and some pier but mostly grass,

**Surrounding Land Use:** Boating, swimming, recreation and picnics - beach 40%

**Sampling Site:** shoreline is sandy beach,

**Plants in area:** none

**Water depth**: 1 ft. at sample collection site

**River Bottom** – sandy – gradual slope

**Observations -** On the ground, there are shells, devil’s heads, seaweed (water celery), and sticks.

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| --- | --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** |  | | ***Comments*** |
| ***Physical*** |  | |  |  | |  |
| **Air Temperature** | 10:30 AM  11:30 AM | | 55 °F  59 |  | |  |
| **Wind Speed** | **Time** 12:15 PM | | **Beaufort #2** | **W** | |  |
| Cloud Cover | Mostly cloudy | | 51-75% |  | |  |
| Weather today | 10:30 AM drizzle | | | | | |
| Weather recently | Nice, cloudy, cool, seasonal | | | | | |
| ***Water Temperature*** | 11:14 AM | 17.5°C | | | Meter. | readings |
| ***Turbidity –*** | 11:27 AM  long site tube | 71 cm  71 cm | | | 25.8 NTU | **meter** |
| ***Fecal Coliform*** | PM | positive | | |  |  |
| ***Chlorophyll*** |  |  | | | Color chart |  |
| ***Chemical –*** | ***TIME*** | ***Reading*** | | | ***Temp*** | ***Saturated*** |
| ***DO - ampule*** | Unable to read |  | | |  |  |
| **pH –**  **(litmus paper, & meter)** | 10:30 AM  11:44 AM  12:15 PM | 8  7.9  8.0 | | |  |  |
| ***Salinity -***  refractometer | 12:08 PM | 2.8 ppt | | |  |  |
| ***Nitrate*** | 10:30 AM  12:15 PM | 0.0 | | |  |  |
| ***Phosphates*** | 12:00 PM | 0 | | |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Fish*** | ***Type*** | ***Number*** | ***Largest*** |  |
| 11:30 AM | Needlefish | 1 | 4 inch |  |
| **TOTAL 21** | Striped Bass | 19 | 3.5 inch |  |
| **DIVERSITY 3** | Killifish | 1 | 2.5 inch |  |
|  | Comb Jelly | 100 |  |  |
|  | Crab | Male, small |  |  |
| ***Core*** | **Description** | **Common** | **Rare** |  |
|  | 9 inch- Course top, fine as go down and get darker | Clay  Sand | Mud  Gravel  Brick |  |
| ***Shipping*** | None seen |  |  |  |
| ***Observations*** | We found many small clam shells and at least one water chestnut shell | | | |