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

**RIVER MILE 120**

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**Four Mile Point Preserve, Coxsackie, Greene County**

**Jean Cardany & Jen Rausch, Coxsackie Elementary School**

**39 students 9th -2nd graders, 18 adults helpers**

**GPS Latitude 42°19’ 1.3116 secs N Longitude 73°47’ 8.0484 secs W**

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**Rocky shoreline**

**Location:** Four Mile Point Preserve, Coxsackie, Greene County,NY

**Area:** Forestedpark space with grassy area, used for hiking, picnics

**Surrounding Land Use**: 100% small rural park preserve

**Sampling Site:** Shore is rocky, lots of vegetation (forested)

**River Bottom** : pebbles and rocks

**Plants in water:** none

**Water Surface:** calm

**Note:** Sampling area is a protected cove back from the main stem of the river

**Observations:** few water chestnut seeds, bricks, shale like rocks covered the area

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | | ***Comments*** |
| ***Physical*** |  | |  |  | |  |
| Air Temperature | 10:25AM  10:43 AM  11:58 AM | | 10°C  15°C  16 | 50 °F  59°F  62 F | |  |
| Wind Speed | no wind | | Beaufort 0- |  | | S | |
| Cloud Cover | 51-76% | |  | | | |
| Weather today | No rain | | | | | |
| Weather recently | Very cold; below 30degrees night of 10/18 and morning of 10/19 | | | | | |
| ***Water Temperature*** | 10:13 AM  10:44 AM  11:20 AM | 10°C  10°C  16°C | | | 50°F  50°F  56°F |  |
| ***Turbidity long***  ***Site tube*** | 10:04 AM  10:40 AM  11:20 AM | 31 cm  32 cm  33.6 cm | | |  | 32.2 cm Avg |
| ***Chemical*** |  |  | | |  |  |
| **DO**  ***Salifert kit*** | **Time** | **Temp °C** | | | **DO** | **% saturated** |
|  | 10:13AM  10:44 AM  11:20 AM | 10°C  16°C  16°C | | | 12 ppm  8  8 | 105%  80%  80% |
| pH – Litmus Paper | NR |  | | |  | Average 6 |
| Salinity - Quantab | 10:13 AM  10:44 AM  11:20 AM  11:50 AM | 44 ppm Cl-  38 ppm Cl-  44 ppm Cl-  38 ppm Cl- | | | 79 total salinity  69 total salinity  79 total salinity  69 total salinity | average 74 ppm total salinity |
| ***Fish Catch***  *35’seine X 4 ft.* | ***Number Caught-*** | ***Species -*** | | | ***Largest Size*** | ***Diversity & Totals*** |
| ***9:44AM-11:58 AM***  ***10 pulls*** | Nothing caught |  | | |  |  |
| ***Tides*** | 9:56 AM | 34 cm | | | start |  |
|  | 10:24 AM | 23 cm | | | falling |  |
|  | 10:40 AM | 18 cm | | | Falling |  |
|  | 10:58 AM | 12 cm | | | Falling |  |
|  | 11:15 AM | 6 cm | | | Falling |  |
|  | 11:43 AM | Out of water | | | falling |  |
| ***Currents – data collected in a protected cove*** | ***Time*** | ***Cm/30 secs*** | | | ***Cm/sec*** | ***Knots – Ebb Flood*** |
| 10:04 AM | 429 cm/30 sec | | | 14.3 cm/sec |  |
| 11:34 AM | 315 cm/30 secs | | | 10.5 cm/sec |  |
| ***Sediment Core*** | ***Length*** | ***Description*** | | | ***Top*** | ***Bottom*** |
| ***11:17 AM*** | 8 cm core - | H2S smell  Oil  Oxidized top | | | Gravel & Loose | Gravel,  mud,  softer |
|  |  |  | | | Mud  Sand  Gravel  pebbles | Mud  Sand  gravel |
| ***Shipping***  ***Commercial*** | 9:46 AM | Bouchard – red & black | | | southbound | Light - empty |
|  | 9:48 AM | Sedrata | | | Northbound | Loaded |
|  | 10:43 AM | Barge | | | southbound | Loaded with piece of TZ bridge on it |
| ***Recreational*** | 9:46 AM  10:15 AM | Yacht -Sailboat | | | Southbound  Southbound |  |