

**Day in the Life of the Hudson River 10/04/12 Data  
Brighton Beach, Brooklyn NY  
Olivia Tandon, Poly Prep Country Day School  
16 students, 11<sup>th</sup> & 12<sup>th</sup> graders, and 2 Adult Helpers  
Latitude: 40.6°N, Longitude: 74.0°W**



**Location:** Brighton Beach, Brooklyn

**Area:** Beach mainly

**Surrounding Land Use:** 70% residential; 10% recreational; 20% commercial

**Sampling Site:** Beach

**Depth:**

**Plants in area:** Red and green seaweed; trees on boardwalk area

| <i>ITEM</i>                     | <i>Time</i>                    | <i>Reading 1</i>       | <i>Reading 2</i> | <i>Comments</i>                              |
|---------------------------------|--------------------------------|------------------------|------------------|--|
| <b><i>Physical</i></b>          |                                |                        |                  |  |
| Air Temperature                 | 11:01 AM                       | 72° F                  |                  | Cooler when raining; warmer when not raining |
| Wind Speed                      |                                |                        |                  | Coming from East                             |
| Cloud Cover                     | 10:00                          | 98% cloud cover        |                  |  |
| Weather today                   |                                | Humid; rainy; variable |                  |  |
| <b><i>Water Condition</i></b>   | A little choppy; no white caps |                        |                  |  |
| <b><i>Water Temperature</i></b> | 11:11 AM                       | 25°C                   |                  | Average 25°C                                 |
| <b><i>Turbidity Column</i></b>  | 11:45 AM                       | 72.8 cm                | 72.2 cm          | Average 72.5 cm                              |
| <b><i>Chlorophyll</i></b>       |                                |                        |                  |  |

|                                     |   |  |                                      |  |
|-------------------------------------|---|--|--------------------------------------|--|
| <b><i>Chemical</i></b>              |   |  |                                      |  |
| DO<br>(drop count kit)              | 11:30 AM  | 6 mg/L                                     | 25°C                                 | Oxygen level very low                      |
| pH meter                            | 11:13 AM  | 7.9  |                                      |  |
| Salinity                            | 11:11 AM  | *-50 mV                                    |                                      | * unclear?                                 |
| <b><i>Fish Catch</i></b>            | <b>Total:</b> 14  | <b>Fish:</b> 11<br>Atlantic<br>Silversides | 1 herring/<br>“Bunker”<br>(menhaden) | 2 Northern<br>King Fish                    |
| <b><i>Tides</i></b>                 | 9:45 AM –<br>10:55 AM   | Tide rising                                |                                      |  |
| <b><i>Currents</i></b>              | 9:20 AM<br>11:00 AM<br>12:00 PM   | Ebbing<br>Flooding<br>Flooding             | 10 cm/min<br>2 cm/min<br>200 cm/min  |  |
| <b><i>Core –</i></b>                | <b>Length</b>   | <b>Common</b>                              | <b>Rare</b>                          | <b>Comment</b>                             |
|                                     | Full Tube   | Sand; gravel;<br>Clam and<br>mussel shells | Seaweed;<br>Sea lice                 | More<br>gravel at<br>bottom of<br>the core |
| <b><i>Pollution</i></b>             | We did some beach clean up, leaving the environment cleaner and less polluted – bottles; bottle caps; shoes; feminine napkins; aluminum foil; part of wooden fence; pieces of plastic   |  |                                      |  |
| <b><i>Biotic Organisms Seen</i></b> | People; dogs; monarch butterflies (~30); Cormorants (2); Seagulls – at least three different types: entirely grey, Herring Gull, one with black head (10); pigeons; geese; evidence of crabs; jellyfish; snail; sea lice; seaweed; krakens (12 – 3,000) |  |                                      |  |
| <b><i>Abiotic things seen</i></b>   | Sand, buildings, rocks, garbage, boats, shoes, helicopters, buoy, planes, rock pier, trash cans, Coney Island, stores   |  |                                      |  |