

Day in the Life of the Hudson River 10/20/16 Data
(Saltfront ~ RM 83)
RIVER MILE -5

Bayridge American Veterans' Memorial Pier AM

N 40. 38'22.-416 , W-74 .2'18.4308

Katie McCarthy Sunset Park High School

100 High School 11th graders, 6 adults

Location: Pier American Veterans' Memorial Pier, by highway, Park, 2 water treatment plants

Area: Pier – bulkhead – mainly concrete & wood. Two parks – Owl's head and Shore Road Park. Water treatment plant <0.5 miles to the NE

Surrounding Land Use: 85% urban/residential, 5% Industrial Commercial, 5% park, 5% highway. People fishing at the site

Sampling Site: Recreational pier with bulkhead– rocks near the edge, banks altered /riprap, all hard edged, steep wall dividing water from land, pipe entering water from treatment plant

Shoreline: Rocky

Depth: ~ 20 ft.

Plants in area: No plants

Bottom: could not see to tell

| <i>Sr</i> | <i>Time</i> | <i>Readings</i> | | |
|---|---|-----------------|-----------------------------|--------------------|
| <i>Physical</i> | | | | |
| Air Temperature | | | | |
| Wind Speed | | | | |
| Cloud Cover | | | | |
| Weather today | Cold day, rocky and windy site, foggy, cloudy | | <i>Water surface</i> | |
| Weather recently | | | | |
| <i>Water Temperatures & averages</i> | 1:08 PM | 15.5°C | | |
| | 1:08 PM | 15.5 | | |
| | 1:10 PM | 15.5 | | |
| | 1:28 PM | 15 C | | |
| | 2:21 PM | 14 C | | |
| <i>Turbidity – Secchi - comment - water is dark,</i> | 12:57 | 200, 170, 180 | cm | AVERAGE: 183 cm |
| | 1:30 PM | 150, 160 | cm | 155 cm |
| | 2:33 PM | 200, 190 c | cm | 190 cm |
| <i>Short site tube</i> | 2:33 PM | 20, 10 | JTU | 15 JTU |
| <i>Chemical</i> | Time | ppm | Temp | % Sat |
| DO | 1:08 PM | 5.0 ppm | 15.5°C | |
| Drop count kit | 1:08 PM | 10-12 ppm | 15.5 | |
| | 1:10 PM | 10-12 ppm | 15.5 | |

| | | | | |
|--|--|--|--|-----------------------------|
| | 1:28 PM 2:21 PM | 6 ppm 6ppm | 15 C 14 C | |
| pH | 1:15 PM | Color match kit | 7.0 | 7.0 avg |
| | 1:17 PM | Test strips | 8.4, 8.4, 9.0 | 8.6 avg |
| | 1:02 PM | Test tubes | 7.0 | 7.0 avg |
| | 2:35 PM | Color match kit | 7.0, 6.0 | 6.5 avg |
| Salinity - hydrometer | 1:15 PM 2:43 PM | 36, 36, 36 ppt 28 ppt | 36 ppt average 28 pppt | Sampling Avg. 34 ppt |
| Nitrates | 1:30 PM 2:43 PM | 5 ppm 5ppm | | |
| <i>Fish Catch</i> | Time | Species | # caught | Size |
| | | NA | | |
| <i>Currents Time</i> | <i>Cm/30 sec</i> | <i>Cm/sec</i> | <i>Kts</i> | <i>Ebb/Flood N/S</i> |
| 2:40 PM | | 18/sec | | South |
| <i>River Use</i> | Time 1:03 PM 1:03 PM 1:05 PM | Type of Use Black trash boat Fishing Tourism | Observations /Evidence Moving trash from place to place Someone caught a fish Taking family pictures | |
| <i>Shipping Traffic</i> | Time | Color | Boats Name | Direction/Loaded |
| | 1:11 PM | Red | *Hafnia Leo – Oil/ Chemical tanker | South/L |
| | 1:14 PM | Blue | *BBC Switzerland | South/L |
| | 1:15 PM | Red | *Hafnia Leo | North/L |
| | 1:18 PM | Orange | *Wallenius Wilhelmsen Cargo Boat | South/L |
| | 1:21 PM | Black | BDC | South/L |
| | 1:58 PM | Blue/white | N/A | North /L |
| | 1:58 PM | Black | Glovis vehicle carrier | North/L |
| | 2:25 PM | Blue/white | | South/L |
| <i>Wildlife @the Hudson River</i> | Time | Organism | Location | Activity |
| | 1:25 PM | Flashing Fish | Close to rocks | Swimming (big fish) |
| | 1:25 PM | Cormorant (lg) | Rocky side | Diving & swimming |
| | 1:30 PM | Green fish (lg) | Close to rocks | Swimming very fast |
| | 1:03 PM | Medium sized fish | Pier | Someone caught it |
| | 1:55 PM | Small fish | Pier | Someone caught it |
| | 1:36 PM | White Fish (tiny) | Rocky side | Flopping around & |

| | | | | |
|---------------------------------------|--|--------------|------|----------|
| | | | | dying |
| <i>Fish ID From Pier</i> | 2:13 PM | Striped Bass | Pier | Swimming |
| | 2:13 PM | Black Fish | Pier | Swimming |
| | 2:15 PM | Herring | Pier | Swimming |
| <i>Overall Observations</i> | Biology - lots of algae, fish, ducks, pigeons. Litter – plastic bottles and litter around, no recycling bins just garbage cans. | | | |
| <i>Owl's Head observations</i> | Tall trees, pin oaks, acorns, many leaves, squirrel, chipmunk, dogs, no birds around owl's head | | | |