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

**RIVER MILE -4.2**

**Bayridge American Veterans’ Memorial Pier**

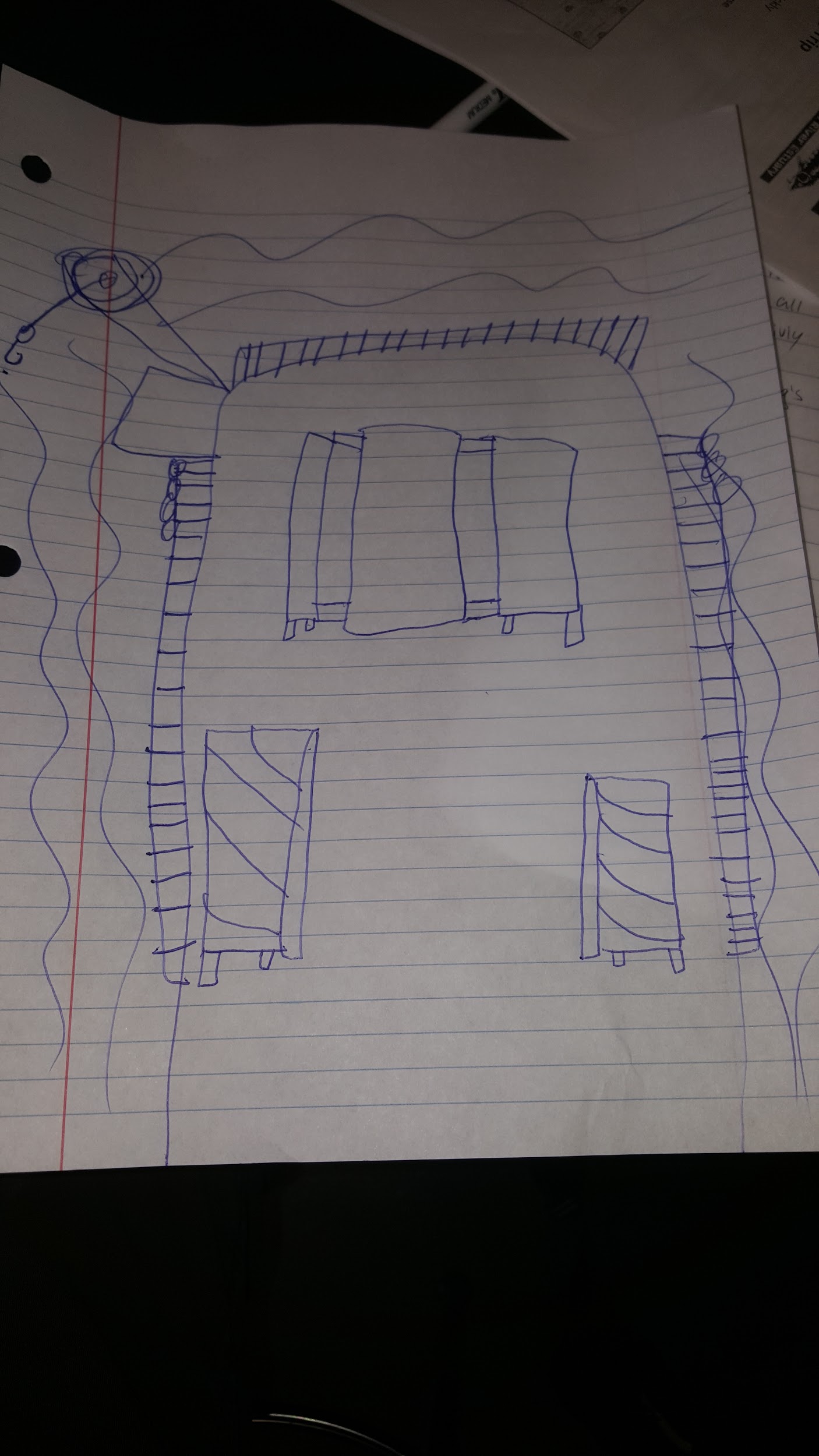
**Pier 69th St.**

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

**Katie McCarthy & Sunset Park HS**

**25 Eleventh graders, 3 adults**

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|  | FullSizeRender (1).jpg |

**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 Fishermen use the pier and bikers out enjoying the view.

**Surrounding Land Use:** 70% urban/residential, 10% Industrial Commercial, 20% park

**Sampling Site:** Recreational pier – 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:** could not see bottom

**Plants in area:** No plants

**Water:** Calm

**Sampling Times:** 1:30 -3:15 PM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Readings*** |  |  |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 2:18 PM  2:48 PM  3:18 PM | | 18.9°C  18.9°C  19.8 °C | 66 °F  66 °F  68°F |  |
| Wind Speed | Some wind | |  |  |  |
| Cloud Cover | 1:30-3:15 PM | | Clear all day | <25% cloud cover all PM |  |
| Weather today | Nice, sunny | |  | ***Water surface*** |  |
| Weather recently | Cool | | | | |
| ***Water Temperature*** | 2:18 PM | 19.8°C | | 68 °F |  |
| ***Turbidity*** |  |  | |  |  |
| ***Chemical*** | **Time** | **ppm** | | **Temp** | **% Sat** |
| DO  Drop count kit | 2:30 PM  2:50 PM  2:56 PM | 8  5  6 | | 16°C  13.2  13.3 | 80%  57%  50% |
| pH  meter | 2:10 PM  2:27 PM | 8  8 | |  |  |
| Salinity -hydrometer | 2:30 PM | 24 ppt | |  |  |
| ***Turbidity*** | 2:30 PM | 198.12 cm  167.64 cm  198.12 cm | |  | Average 187.96 cm |
| ***Fish Catch*** | Time | Species | | # caught | Size |
|  | 2:30 PM | Black Seabass | | 1 |  |
| ***Tides - water depth*** | ***Time*** | ***Distance to water*** | | ***Rate of change*** | ***Flood or Ebb*** |
| ***Measuring down from pier using a secchi disk*** | 2:26 PM  2:53 PM | 112cm  106 cm | | 6 cm/27 mins | Flooding |
| ***Currents*** | ***Time*** | ***Cm/30 sec*** | | ***Cm/sec*** | ***Knots &***  ***Ebb/Flood*** |
|  | 2:30 PM | 14cm/90 seconds | | 0.15 cm/sec |  |
| ***Traffic- Commercial*** | 2:22 PM | Staten Island Ferry | | Orange | Southbound Loaded |
| ***Observations*** | Gulls flying around looking for food. Construction on way to pier. | | | | |