**Day in the Life of the Hudson River 10/20/16**

**(Salt Front ~RM 83)**

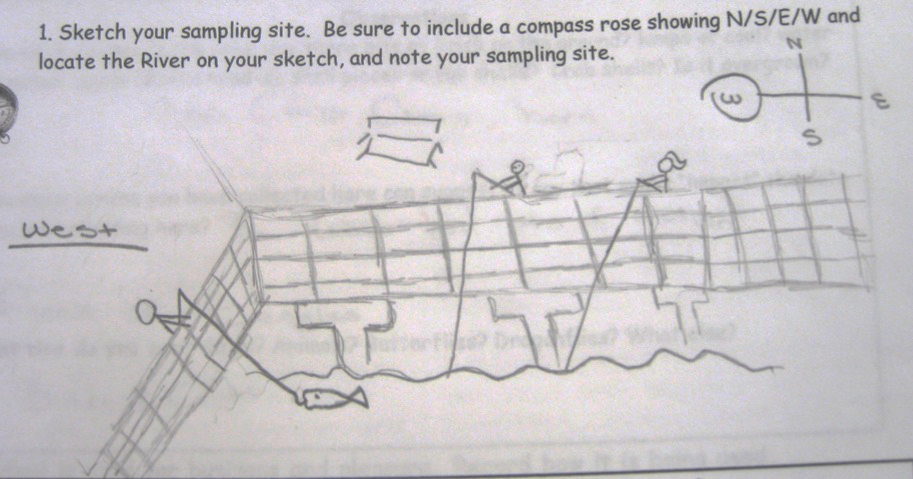
**RIVER MILE -9.1**

**Steeplechase Pier, Coney Island, Brooklyn NY**

**Deborah Sarria, Andries Hudde JHS 8th graders**

**60 students, 8 adults**

**40.5°N – 73.9°W**

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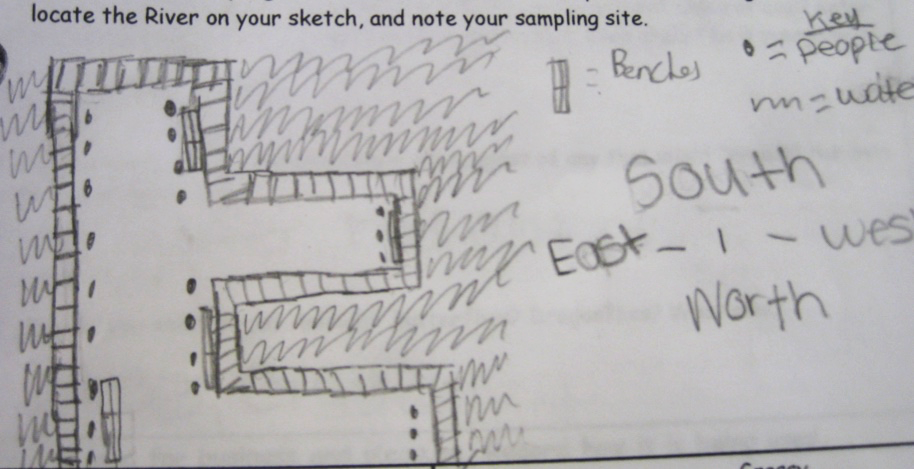
**Location:** Steeplechase Pier, Coney Island, Brooklyn NY

**Surrounding Land Use:** Urban/residential 12.5%, Beach 755, Industrial/commercial 12.5%

**Sampling Site:** Beach areas with pier and riprap shoreline

**Plants in area:** No plants in the area

**River bottom:** Sandy



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 11:23 AM  12:25 PM | | 21.7°C  21.9°C | 71°F  71°F |  |
| ***Wind Speed*** | 10.2 mph | | East | ***Water Surface*** | Choppy |
| Cloud Cover | Clear | | Weather Today | No rain |  |
| Weather last 3 days | There was no precip in the last 3 days. The cloud cover ranged from clear to part cloudy, Air temperatures 39-59°F | | | | |
| ***Water Temperature*** | 10:40 AM | 15°C | | 59°F |  |
|  | 11:10 AM | 18.6°C | | 65°F |  |
|  | 11:49 PM | 18.7°C | | 66°F |  |
|  | 12:15 PM | 18.8 °C | | 66°F |  |
| ***Turbidity***  Sight Tube | 10:30 AM | 78 cm  67 cm  82 cm | | Average  71.6 cm |  |
|  | 11:35 AM | 70 cm  48 cm  68 cm | | Average  62.0 cm |  |
|  | 12:14 PM | 73 cm  70 cm  60 cm | | 70.7 cm |  |
| ***Chemical*** |  |  | |  |  |
| DO  (meter) | 10:40 AM | 15.0°C  18.6  18.7  18.8 | | 8.6 ppm  8.7  8.7  8.2 | 80 %  90 %  90 %  85 % |
| pH | 10:40 AM  11:00 AM  11:49 AM  12:15 PM | 7  7  7  7 | | Average 7 |  |
| Salinity  (Hydrometer) | 1040 AM  11:15 AM  11:49 AM  12:15 PM | 32 ppt  34 ppt  28 ppt  30 ppt | | 32 ppt  34 ppt  32 ppt  30 ppt | Avg – 32 ppt  34 ppt  30 ppt  30 ppt |
| Nitrates | 1040 AM  11:15 AM  11:49 AM  12:15 PM | 0 ppm  0 ppm  0 ppm  0 ppm | |  |  |
| Phosphates | 1040 AM  11:15 AM  11:49 AM  12:15 PM | 0.25 ppm  0.25 ppm  0.25 ppm  0.25 ppm | |  |  |
| ***Tides –*** | 11:28 AM  12:15 PM | set  Rising | | 3000 cm  2500 cm | ----  11.1 cm/min |
| ***Currents*** | NR |  | |  |  |
| ***Fish – minnow traps -------*** |  | 1  1 | | Summer Flounder  Northern Sea Robin | ***Diversity – 2***  ***Total Catch –2*** |
| ***Macroinvertebrates*** |  | 1  1 | | Blue Crab-M  Hermit Crab | ***Diversity – 2***  ***Total Catch –2*** |
| ***Shipping - Commercial*** | 12:09 PM  12:09 PM | Barge  Tug Boat | | Westbound  Westbound | Loaded |
| ***Recreational*** | 10:51 AM | Speedboat | |  |  |
| ***Other Items*** | **Flock of sea gulls flying around the pier, Several people fishing off of pier, strong wind kicked up mini sand storms on the beach** | | | | |