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

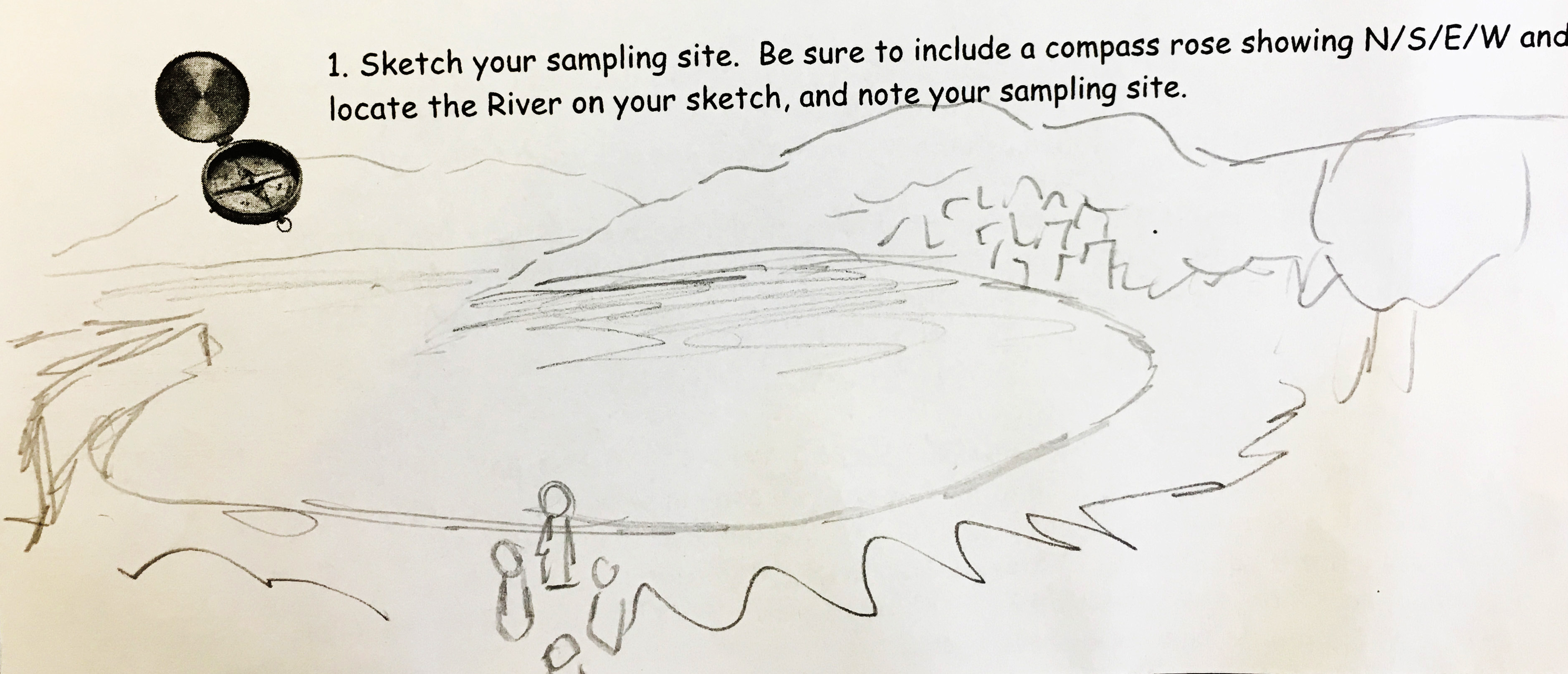
**(Salt Front ~ RM 83)**

**RIVER MILE 35E**

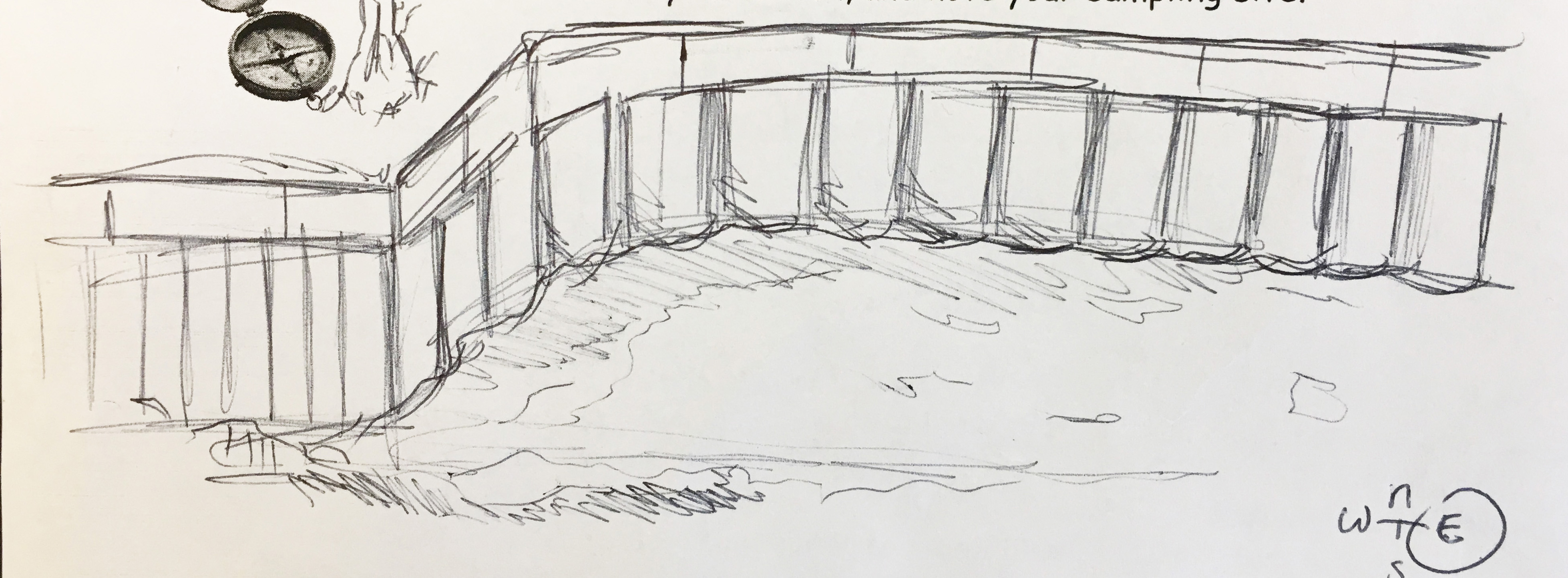
**Croton Point Park, Croton on Hudson**

**Donna Light-Donovan, Croton Harmon High School, 31 HS students, 4 adults**

**Latitude 41.1868 - Longitude -73.8923**



Croton Point Beach (Shea Stevenson)



Croton Point Beach retaining wall (Shannon Grounds)

**Location:** Mother’s Lap, Croton Park NY

**Area:** Beach surrounded by parkland

**Surrounding Land Use:** Beach 90%, paved road and parking lot

**Sampling Site:** Beach area with with raprap @ north end, collected wood debris in area

**River Bottom** – sandy/muddy bottom - 1 meter deep

**Plants in sampling area** – *Vallisneria Americana (water celery****) -*** *< 50% of area*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** |  | | ***Comments*** |
| ***Physical*** |  | |  |  | |  |
| **Air Temperature** | 9:36 AM | | 63 °F  17 °C |  | |  |
| **Wind Speed** | AM | | Beaufort #2-3 | 7 mph | | ENE |
| Cloud Cover | overcast | |  |  | |  |
| Weather today | No rain | | | | | |
| Weather recently | Unusually warm | | | | | |
| ***Water Temperature*** | 9:30 AM | 26 ° C (seems pretty high!) | | |  |  |
| ***Water*** | Calm |  | | |  |  |
| ***Chemical*** | ***TIME*** | ***Reading*** | | |  |  |
| ***DO*** | NR |  | | |  |  |
| **pH** | NR |  | | |  |  |
| ***Salinity – Quantabs HR*** | 9:30 AM | 83. quantab units  8.4  8.4 | | | 5426 ppm Cl- | 9802 TS |
| ***Turbidity – meter/*** | 9:30 AM | 15 NTU  31  35 | | | 40 cm  26 cm  22 cm | Average 27 NTU  28 cm |
| ***Sediment Core*** | **Comment** | **Abundant** | | | **Common** | **Rare** |
|  | Lighter color on top with an oil texture | Sand | | | Mud | Clay  Gravel |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Fish –*** | ***AM*** | ***Species*** |  |  |
| **Total Div. 1** | 4 | Banded Killi | 4 cm |  |
| **Total Catch 4** |  |  |  |  |
| ***Macros -*** | 1 | Fingernail Clam |  |  |
| **Total Div. 6** | 1 | Moon Jelly |  |  |
| **Total Catch 46** | 1 | Sand Shrimp |  |  |
|  | 1 | Shore Shrimp |  |  |
|  | 1 | Scud |  |  |
|  | 1 | Isopod |  |  |
| **Tides** | **Time** | **Rising/Falling/ Unchanged** | **Height in cms** |  |
|  | 8:30 AM | Low Tide |  |  |
|  | 9:00 AM | Low Tide |  |  |
| **Currents** | 9:15 AM | 81 cm/ 30 secs | 2.7 cm /sec | Ebb |
| **Shipping** | 9:30 AM | Rec – white sailboat | Northbound | Light |
|  | 10:30 AM | Com – rust barges | Southbound | Light |
|  | 10:40 AM | Rec - sailboat | Southbound |  |

**We will be sending a video that a student, Shannon Angove-Cohen made with her cell phone.**