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

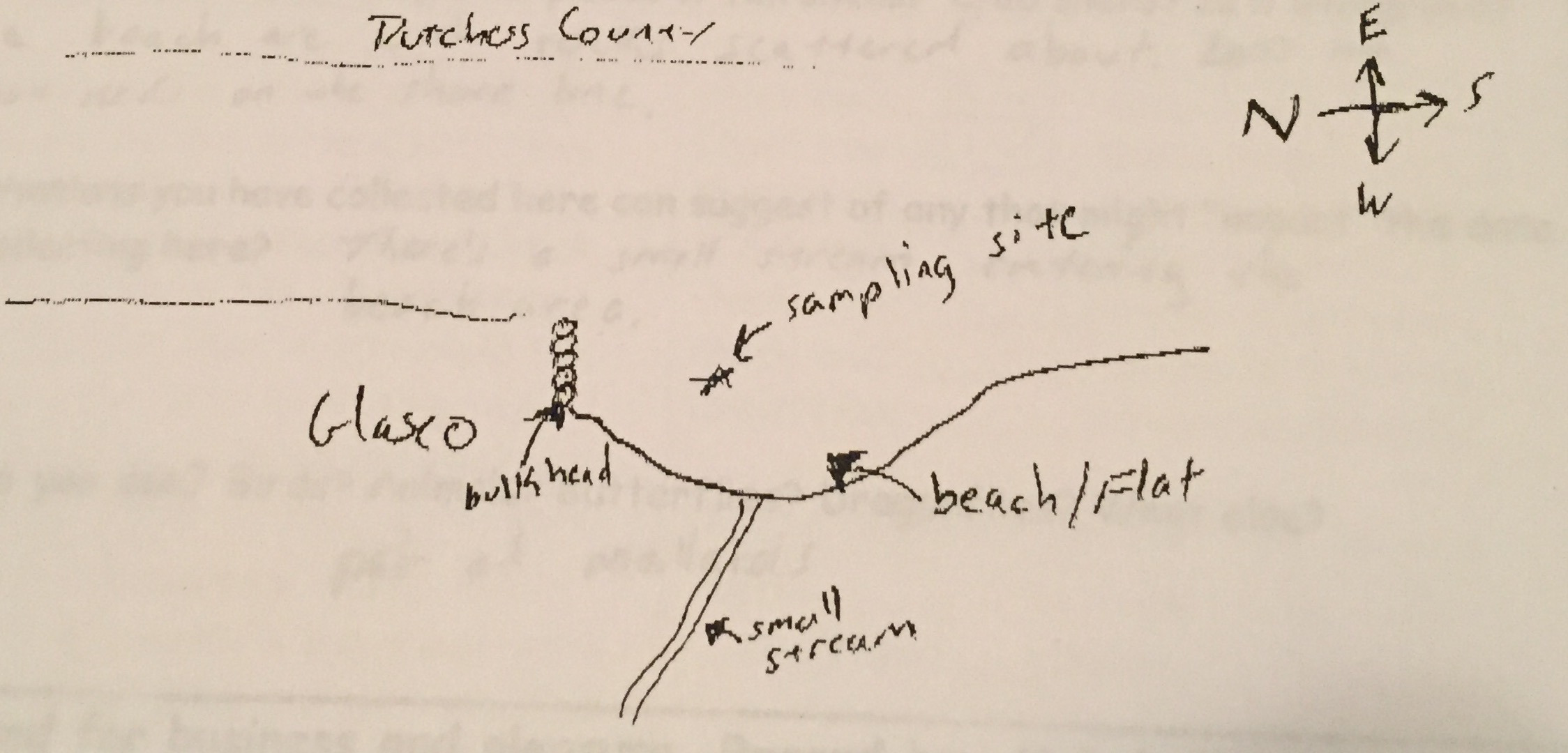
**(Saltfront ~RM 83)**

**RIVER MILE 100.5**

**South Cove at Falling Waters, Glasco, Ulster County**

**Brian Robinson, Saugerties High School, 13 AP Env. Sci. 11th-12th grade students and 2 adults**

**N 42. 046752, W-73.939081**

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**Location:** Falling Waters protected area, South Cove, Glasco, Ulster County

**Area:** Forested, cove with a shallow beach

**Surrounding Land Use:** 100% forested

**Sampling Site:** Parkland, beach covered in vegetation, concrete bulkhead

**Shoreline:** Sandy, muddy, rocky

**Depth:** could not see bottom

**Plants in area:** water is 40% covered with water chestnut

**Site Observations:** Old brick pieces on the ground names on bricks are Wasburn, Lent, …Bury, lots of old washed up logs, seaweed

**Bottom:** Sandy, muddy

**Water:** Choppy

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Readings*** |  |  |
| ***Physical*** |  | |  |  |  |
| Air Temperature | 10:45 AM | | 17°C | 62 °F |  |
| Wind Speed | 10:42 AM | | Beaufort 3 |  |  |
| Cloud Cover |  | | Overcast | >75% |  |
| Weather today | Cloudy | |  | ***Water surface*** |  |
| Weather recently | Warm and dry | | | | |
| ***Water Temperature*** | 10:45 AM | 17.6°C | | 63.7 °F | 2 ft. depth, |
| ***Turbidity*** | NR |  | |  |  |
| ***Chemical*** | **Time** | **ppm** | | **Temp** | **% Sat** |
| DO  Drop count kit | 11:10 AM | 17.6 ppm\* | | 20°C | \*Too high – must have been an air bubble |
| pH  color match test | 10:45 AM | 8 | |  |  |
| Salinity –titration strips | 10:45 AM | 1.2 strip | | 32 ppm Chl | 58 ppm TS |
| Alkalinity | 10:45 AM | 80 ppm | |  |  |
| Nitrates | 10:51 AM | 8.8 mg/L | |  |  |
| Phosphates | 11:00 AM | 2 mg/L | |  |  |
| ***Fish Catch – 30 ft.*** | Species | # caught | | Length of largest | TOTALS |
| 11:00 AM | Blueback herring | 1 | | 45 mm | **DIV 6**  **TOTAL 9** |
|  | Spottail Shiner | 1 | | 40 mm |  |
|  | White Perch | 1 | | 90 mm |  |
|  | Bluegill Sunfish | 2 | | 80 mm |  |
|  | Pumpkinseed Sunfish | 3 | | 130 mm |  |
|  | Tesselated Darter | 1 | | 60 mm |  |
| ***Tides - water depth*** | ***Time*** | ***Distance to water*** | | ***Rate of change*** | ***Flood or Ebb*** |
|  | 10:44 AM  11:10 AM | 13 cm  6 cm | | 7 cm drop | Ebb |
| ***Currents*** | ***Time*** | ***Cm/30 sec*** | | ***Cm/sec*** | ***Knots &***  ***Ebb/Flood*** |
|  | NR |  | |  |  |
| ***Commercial Shipping*** | 11:00 AM | UBC Ship | |  | Southbound |
|  | 11:10 AM | Barge & Tug | |  | Northbound |
| ***Observations*** | Beach area with rocks scattered around and lots of chestnut seeds on the shoreline.  Pair of mallards | | | | |