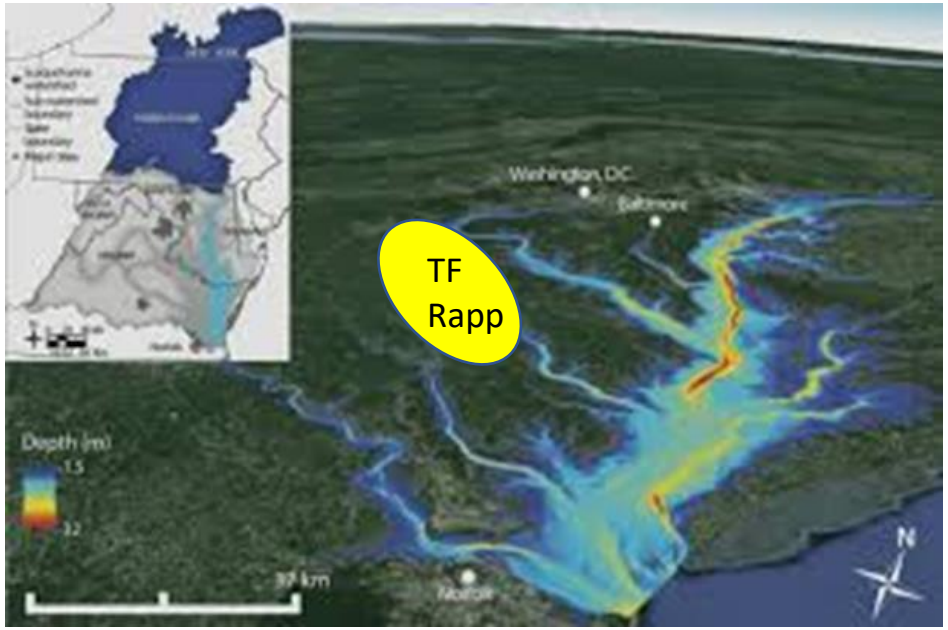
Issue – End a station time series and start new stations, or retain long-term continuity at 2 sites on the Tidal Fresh Rappahannock River while their bathymetry is changing?



In Virginia, the monitoring team has noted stations 3-RPP091.55 (TF3.1B) and 3-RPP098.81 (TF3.1E) on the Rappahannock River are getting increasingly shallower.

- 3-RPP091.55 (TF3.1B)

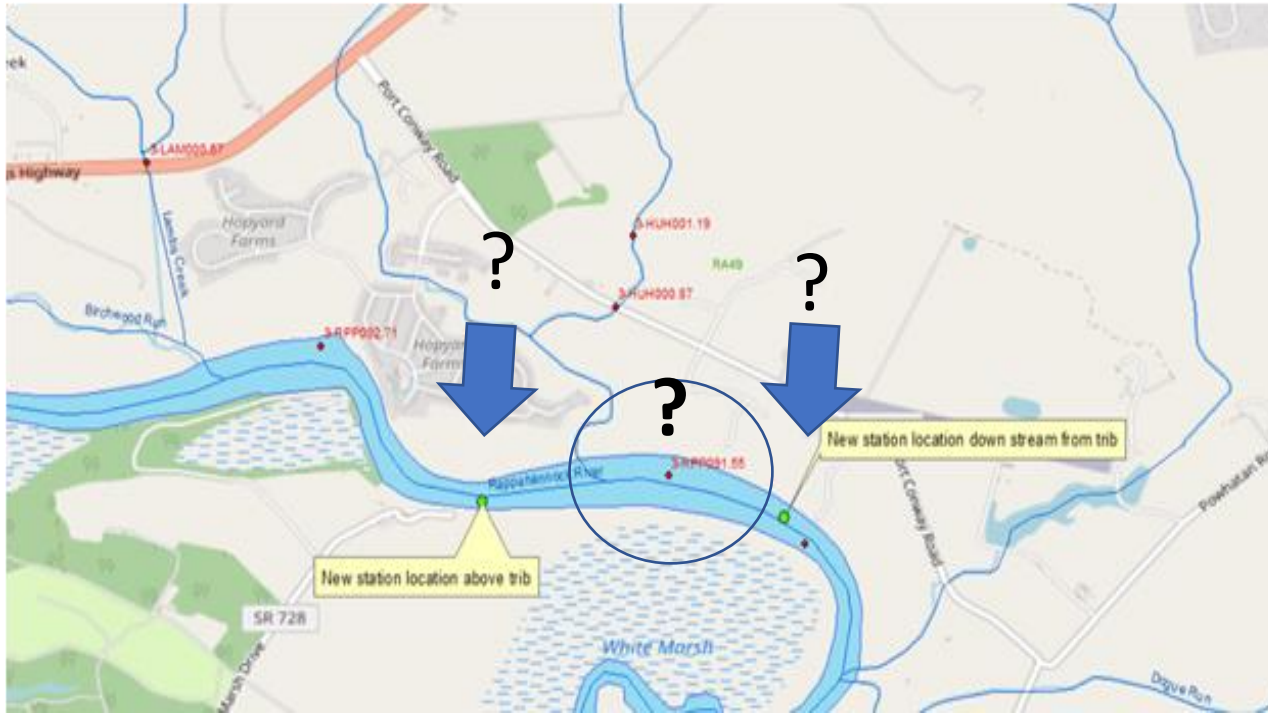
- 3-RPP091.55 historically was at **10-11ft** depth and is currently located on a bar (on the chart from the new Parker).

- The proposed downstream station marked was at **19-20ft** depth (0.35 downstream from current station)

- The potential new upstream station marked was at **28ft** depth (0.52 upstream from the current station)

- The drainage area of the nearby tributary is only 2.7 square miles. A very small drainage area. mostly from the nearby new community of Hop Yard.

- Due to this small drainage the station could be moved up or down stream.



TF3.1E

- 3-RPP098.81 was at **10-11ft** depth and is again currently located on a bar (on the chart from the new Parker).

- The entire stretch of river is shallow ... above and below. The station would have to be moved a greater distance and not sure the best idea at this time**.**
- Drainage area of the upstream tributary (Muddy Creek) is 15.4 square miles.

Would it be better to remain at the current sites and continue to obtain surface and bottom samples 1 meter apart

or

Would you prefer a deeper site that would provide additional DO data at depths that were historically available to sample but are no longer there?