

Recommendations on sampling design for the next phase of hypoxia monitoring network development

n=11 arrays.

- ▶ Mainstem bay (3)
 - ▶ if we keep an east-west pair in the mainstem and
 - ▶ we have a reference array at another latitude
- ▶ Lower tributaries: Potomac and Rappahannock. (4)
 - ▶ 2 Potomac arrays
 - ▶ 2 Rappahannock arrays
- ▶ Mobile, targeted study arrays (4)
 - ▶ 3 new as a suite for evaluating scales of variability
 - ▶ 1 existing with MD DNR and their Fishing Bay study area

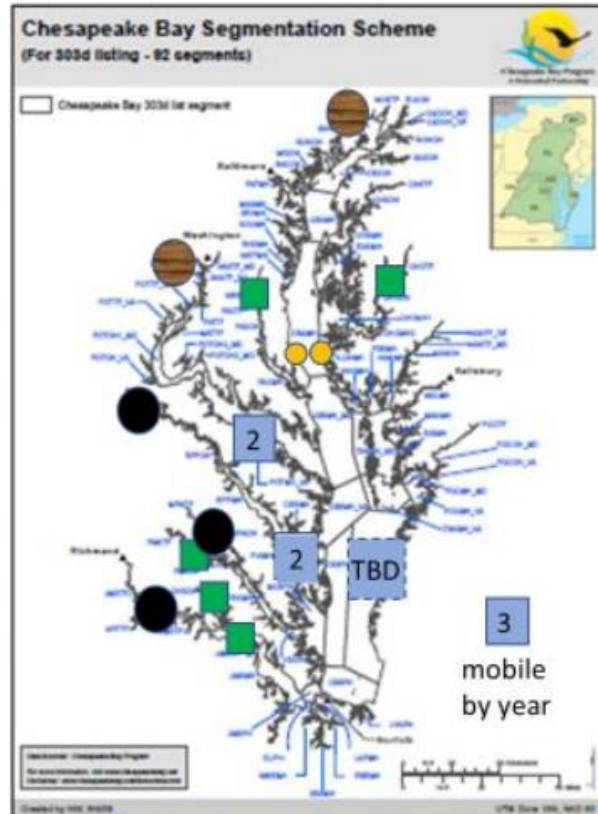
- Growing the water quality network from “Fair” to “good”, addressing high frequency water quality habitat conditions with this level of investment and build out of the program.
- **Recommendation for investment to PSC is targeting support for 8 new locations for arrays.**

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Expanding monitoring and assessment capacity
2021+: High frequency monitoring network

Existing

- NOAA supports 2 vertical sensor arrays
- 3 fully funded river input water quality continuous monitors (VADEQ/USGS)
- 2 river input water quality continuous monitoring sites with support ending, need funding (MD/USGS)



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Network vision: D.O., Temp, Salinity

- 11 vertical arrays operating in main bay and tidal tributaries
- 10 boundary condition river input continuous monitoring stations
- Sustain existing long-term and targeted shallow water monitoring