



Responding to the PSC Request to Improve the CBP Monitoring Networks: NTN WG continued

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NTN WG

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Process

9 months start to finish

8 questions to answer

Provide a short synthesis to address the questions, vision going forward.

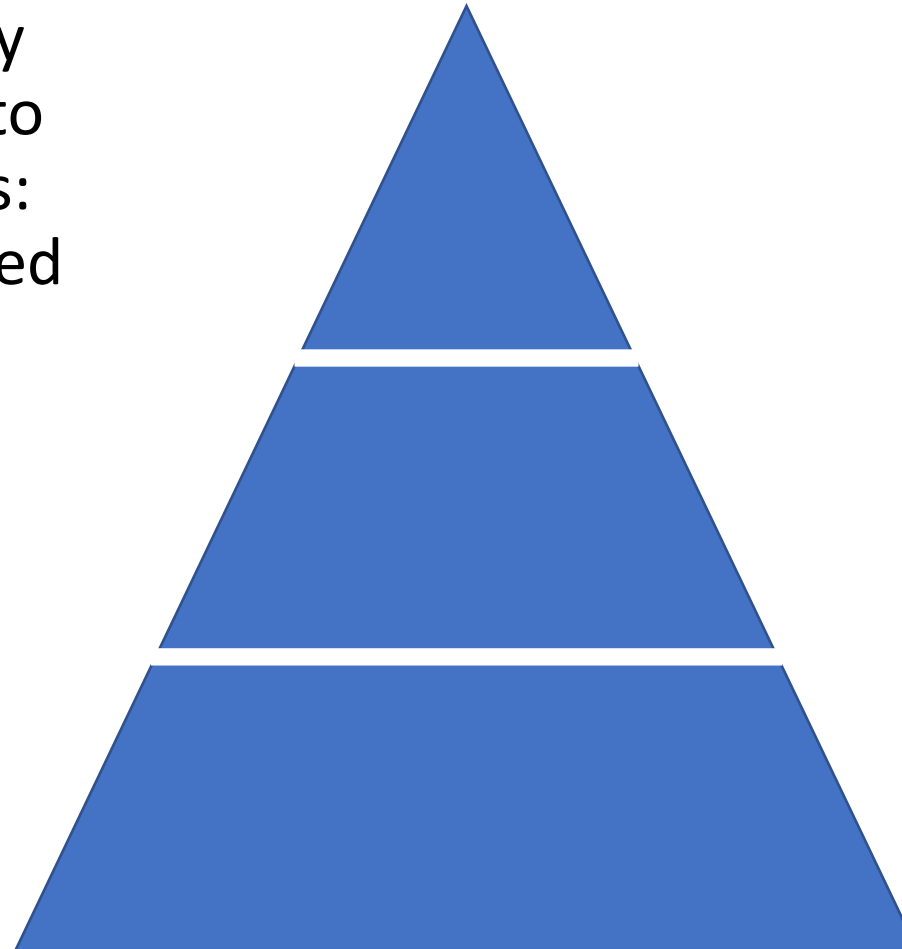
The finish line: Sharp, focused recommendations on sustaining and growing the network will be key



- Operationalize research to monitoring programming (e.g., new ConMon sensor applications)
- Acknowledge and grow partner commitments
- Enhanced use of existing resources (e.g., advanced analyses)
- Define investment needs with planned gap filling return on investment (ROI) – (e.g. vertical profiler network development)

Delivering a final product: Tiered communication

- 1 page: Executive summary on the recommendations to sustain and grow networks: strategies, resources needed
- 1 (max 2) page network portfolio summaries
- Short report on the 8 questions



Exec
Summary
1 pg

Example Product Target:
Network portfolios with recommendations

- **Recommendations**
 - Partner with ABCD organizations to finalize protocols on satellite-based monitoring
 - Adopt satellite-based monitoring for SAV, light, chl
 - Adopt AI algorithm interpretation for satellite-derived data for cost effective assessments
 - Increase 117e budget to augment losses on core monitoring SX
- **Vulnerabilities**

Category	Issue	Explained
Infestation	Boating power	Loss of monitoring
Level funding	COLA impact	Loss of monitoring
Aging Infrastructure	Replacement costs	Reduced service
Contractor viability	Discontinuity of service	Mixed sampling
Pandemic	Safety	Mixed sampling
Staffing	Capacity	Mixed capacity
- **Status** The current tidal monitoring network was established in 1984. Its first full year was 1985. There are 154 active stations sampled for physical, chemical, and biological measures throughout the water column with a consistent set of collection and analysis protocols.
- **Innovations**
 - Enhanced monitoring with Community science support
 - Hi-Res satellite SAV, light and CHL
 - Cutting edge, cost-effective vertical profiles of water quality
- **Financials**
 - 2021 – level funding at \$X.x M
 - Projected program changes include XY Z
- **Gaps**
 - Short duration D.O. criteria
 - Efficient CHLA coverage
 - Efficient light limitation coverage

DRAFT Conceptual DRAFT

Report
Q1-Q8

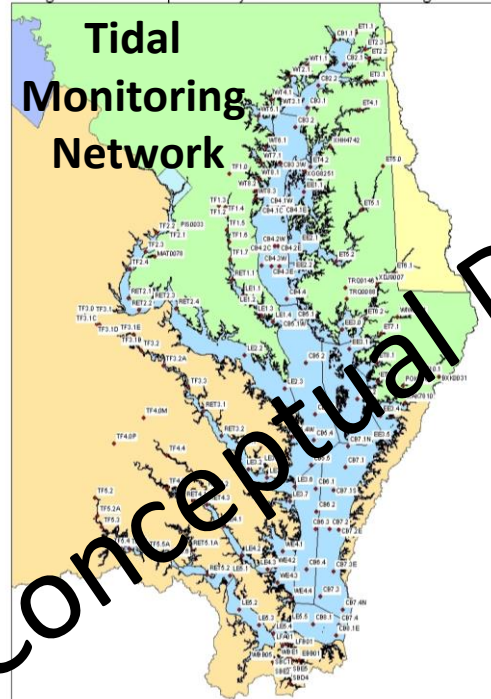
Example Product Target: Network portfolios with recommendations

• Recommendations

- Partner with ABCD organizations to finalize protocols on satellite-based monitoring
- Adopt satellite-based monitoring for SAV, light, chl
- Adopt AI algorithm interpretation for satellite-derived data for cost effective assessments
- Increase 117e budget to augment losses on core monitoring \$X

• Vulnerabilities

Category	Issue	Explained
Inflation	Buying power	Lost capacity in time
Level funding	COLA impact	Lost capacity in time with inflation
Aging infrastructure	Replacement costs	Resource distribution
Contractor viability	Discontinuity of service	Missed sampling
Pandemic	Safety	Missed sampling
Staffing	Capacity	Missing capacity



- **Status** - The current tidal monitoring network was established in 1984, its first full year was 1985. There are 154 active stations sampled for physical, chemical, and biological measures throughout the water column with a consistent set of collection and analysis protocols.

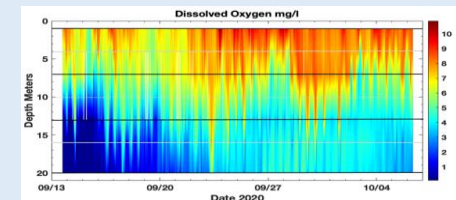
• Innovations



Hi-Res satellite
SAV, light and CHLA



Enhanced monitoring with
Community science support



Cutting edge, cost-effective
vertical profiles of water quality

• Financials

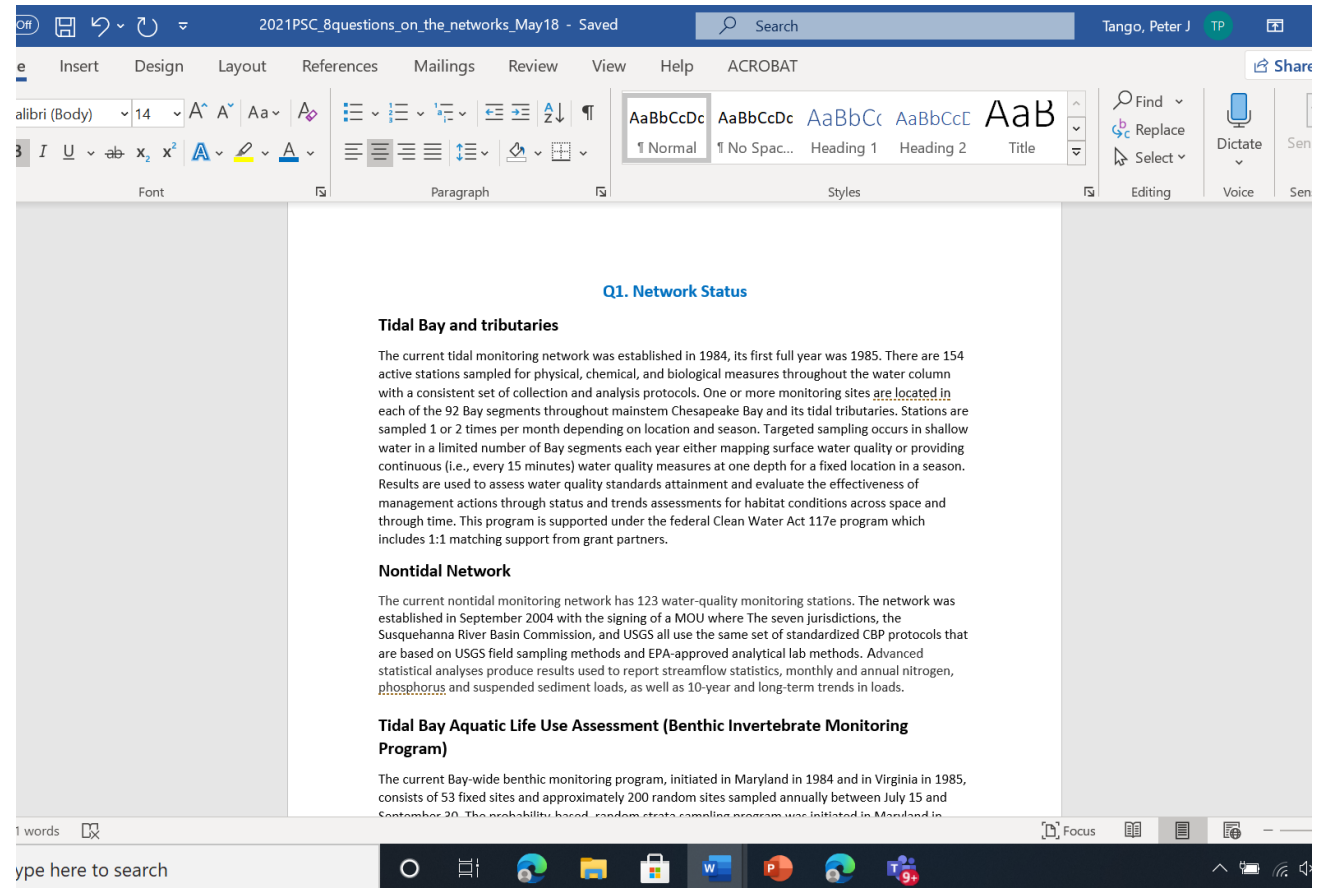
- 2021 – level funding at \$X.x M
- Projected program changes include X,Y Z

• Gaps

- Short duration D.O. criteria
- Efficient CHLA coverage
- Efficient light limitation coverage

Report product

- Topics addressed with single paragraph summaries supported by tables and graphics.
- NTN WG meetings take bites at this in workshop mode to review/edit together





The Path Ahead

Spring season – basic background info

- Q1 and Q2 – network summary, vulnerabilities

Summer season – define level funding impacts

- review/update network objectives
- Capture level funding impacts to network and budget 5 yr timeline,
- what have we done in the past to address level funding challenges

Summer-autumn – Develop and codify recommendations

- Define any changes in how we do business among partners to cover any projected losses.
- Define programming and funding needed to sustain what we have in the NTN
- Define programming and funding needed to address new objectives.