

CESR

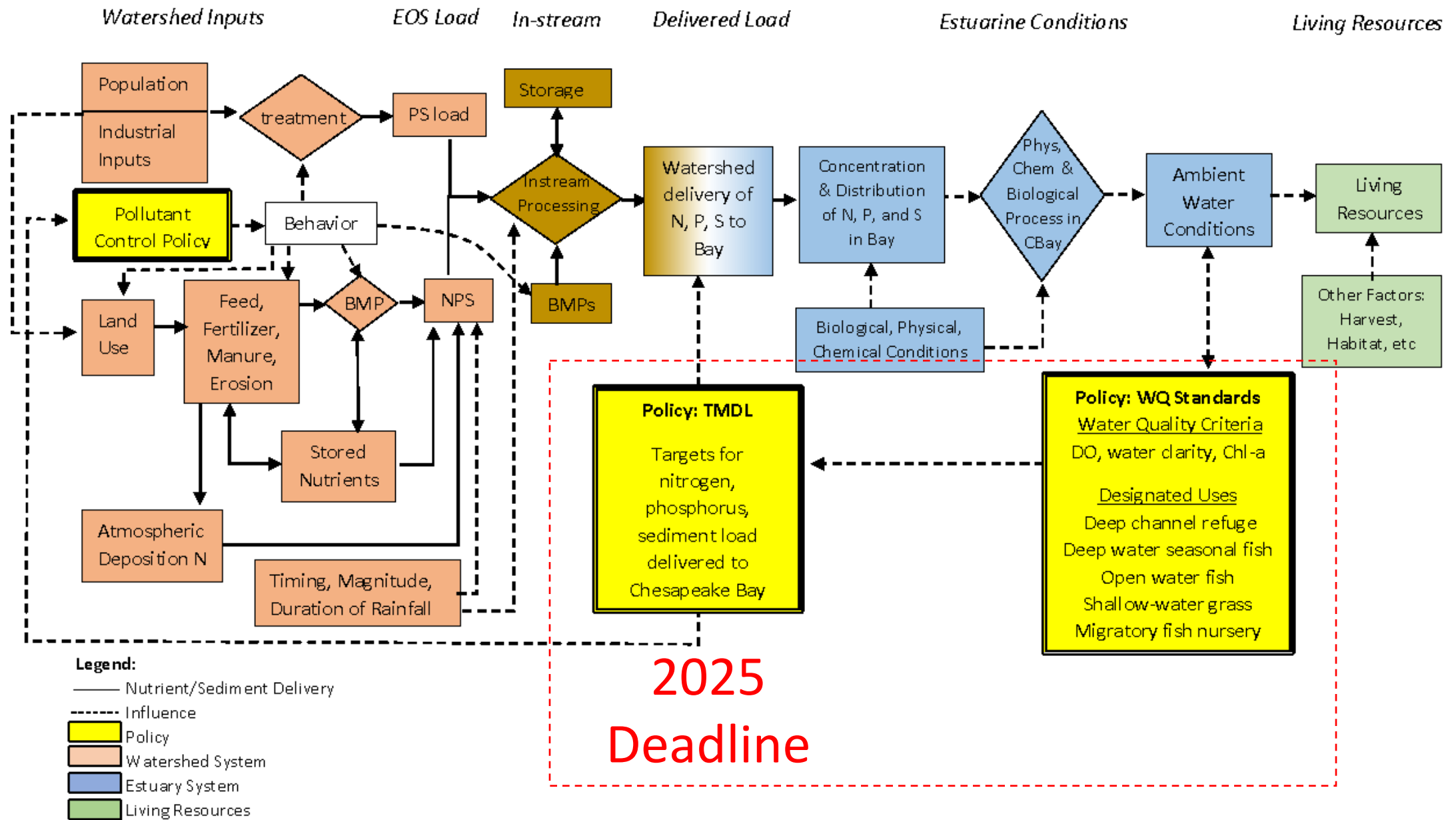
(Comprehensive Evaluation of System Response)

Update

March 24, 2021

Objectives

- Identify gaps and uncertainties in system response —physical, chemical, biological, and socioeconomic— that impact efforts designed to attain WQS.
- Identify recent scientific developments that can shed light on the gaps and uncertainties in system response to advance efforts to attain WQS, and
- Recommend research strategies that improve understanding of system response to support informed decision making to attain WQS.
- Recommend strategies for integrating scientific and technical analysis with active adaptive management in order to aid decision-making under uncertainty (to achieve WQS).



General Outline

Section 1: Introduction

Section 2: Gaps and Uncertainties in System Response to Meet Water Quality Standards

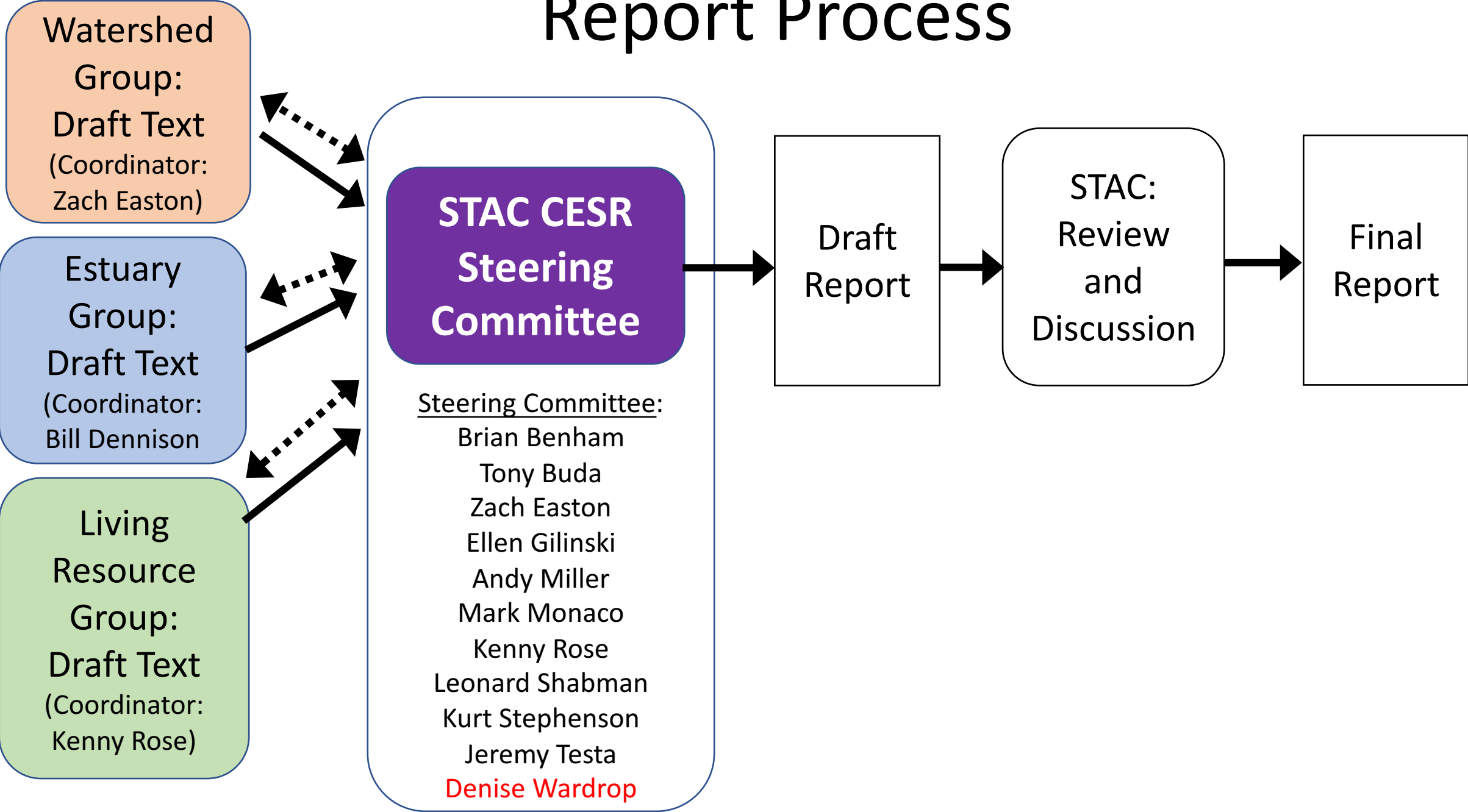
Section 3: Watershed Response

Section 4: Estuary Response

Section 5: Living Resource Response

Section 6: Implications

Report Process



Today

- *Updates,*
- *Workgroup section drafts*
- *Sharing of tentative findings, identifying cross cutting themes.*

Report

Section 1: Introduction

Section 2: Gaps and Uncertainties in System Response to Meet Water Quality Standards

Section 3: Watershed Response

Section 4: Estuary Response

Section 5: Living Resource Response

Section 6: Implications (*some illustrative emerging ideas*)

A. System response: Implications for achieving WQS

- TMDL
- Achievement of water quality criteria

B. Adaptive management: Improving response in the face of uncertainty

C. Implications for water quality standards

- Improvements for monitoring and assessment of WQ criteria
- Criteria, monitoring, modeling for shallow water habitats
- Consideration of living resource-based water quality criteria.

D. Future Visions for the Chesapeake Bay Water Quality