

HAMPTON ROADS PLANNING DISTRICT COMMISSION



LIVING SHORELINES AND THE PHASE III WIP

KC Filippino, Senior Water Resources Planner

Feb. 20, 2020

VIRGINIA'S PHASE III WIP

- Provided PDCs local goals to reduce total nitrogen and phosphorus
- Focused on Unregulated Urban, Natural, and Septic sectors
- Built upon PDC input and what could be achieved on state-owned land

Commonwealth of Virginia
Chesapeake Bay TMDL Phase III
Watershed Implementation Plan



August 23, 2019

Ralph Northam, Governor
Commonwealth of Virginia

Matthew Strickler,
Secretary of Natural Resource

LIVING SHORELINES

Recommendations of the Expert Panel to Define Removal Rates for Shoreline Management Projects

Submitted by:

Nathan Forand, Kevin DuBois, Jeff Halka, Scott Hardaway, George Janek, Lee Karrh, Eva Koch, Lewis Linker, Pam Mason, Ed Morgereth, Daniel Proctor, Kevin Smith, Bill Stack, Steve Stewart, and Bill Wolinski

Accepted by Urban Stormwater Work Group: April 15, 2014

Approved by Watershed Technical Work Group: February 13, 2015

Approved by Water Quality Goal Implementation Team: July 13, 2015

Amended by WTWG and WQGIT: June, 2017

NOTE: THIS VERSION SUPERCEDES ALL PRIOR VERSIONS

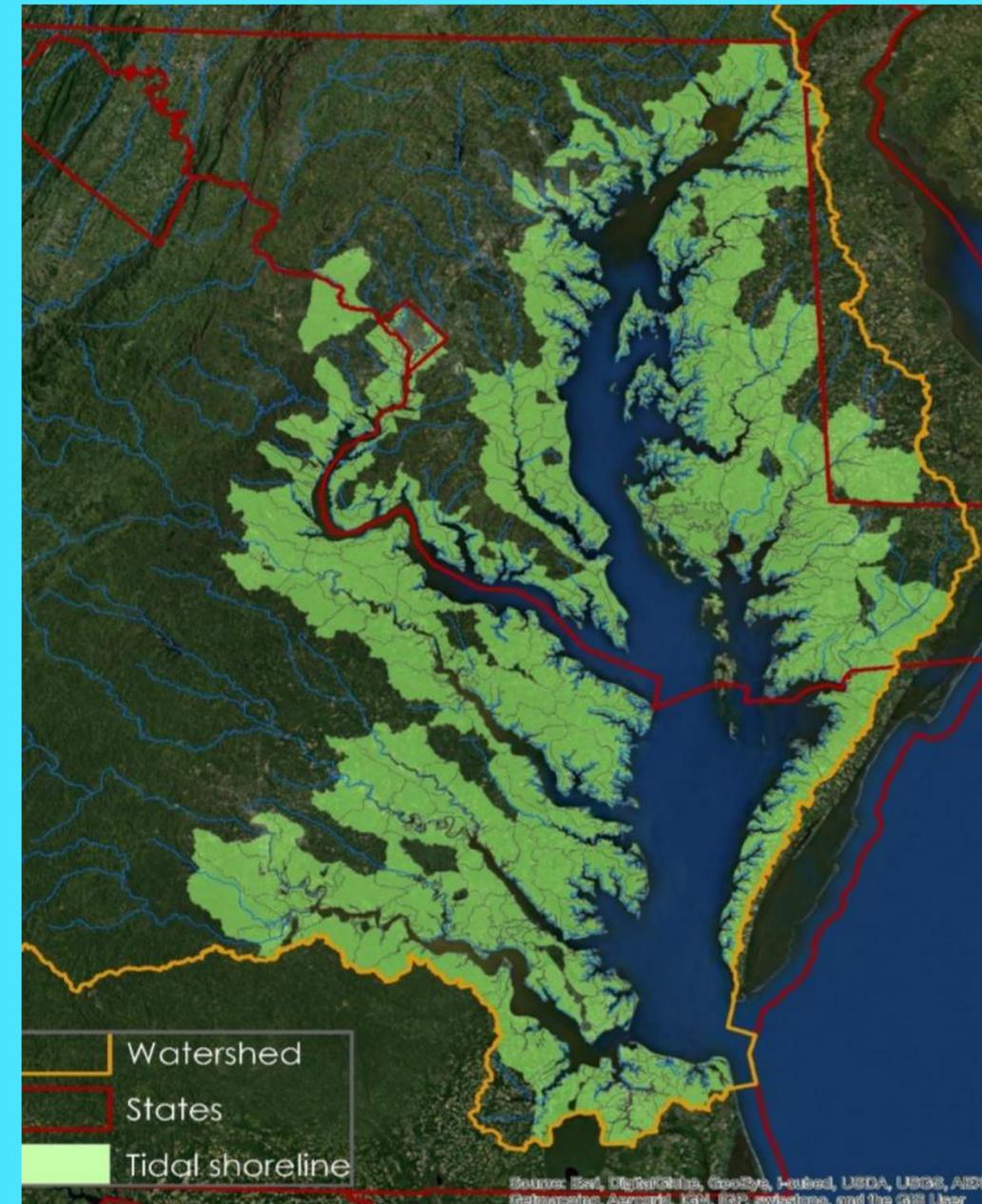
Prepared by:

Sadie Drescher and Bill Stack (Chair), Center for Watershed Protection, Inc. and EPA
Chesapeake Bay Program Office (CBPO) Sediment Stream Restoration Coordinator



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- Referred to in WIP as the Shoreline Management BMP
- For tidal shorelines only
- Protocol 1 revised, yields higher nitrogen removal rates than original

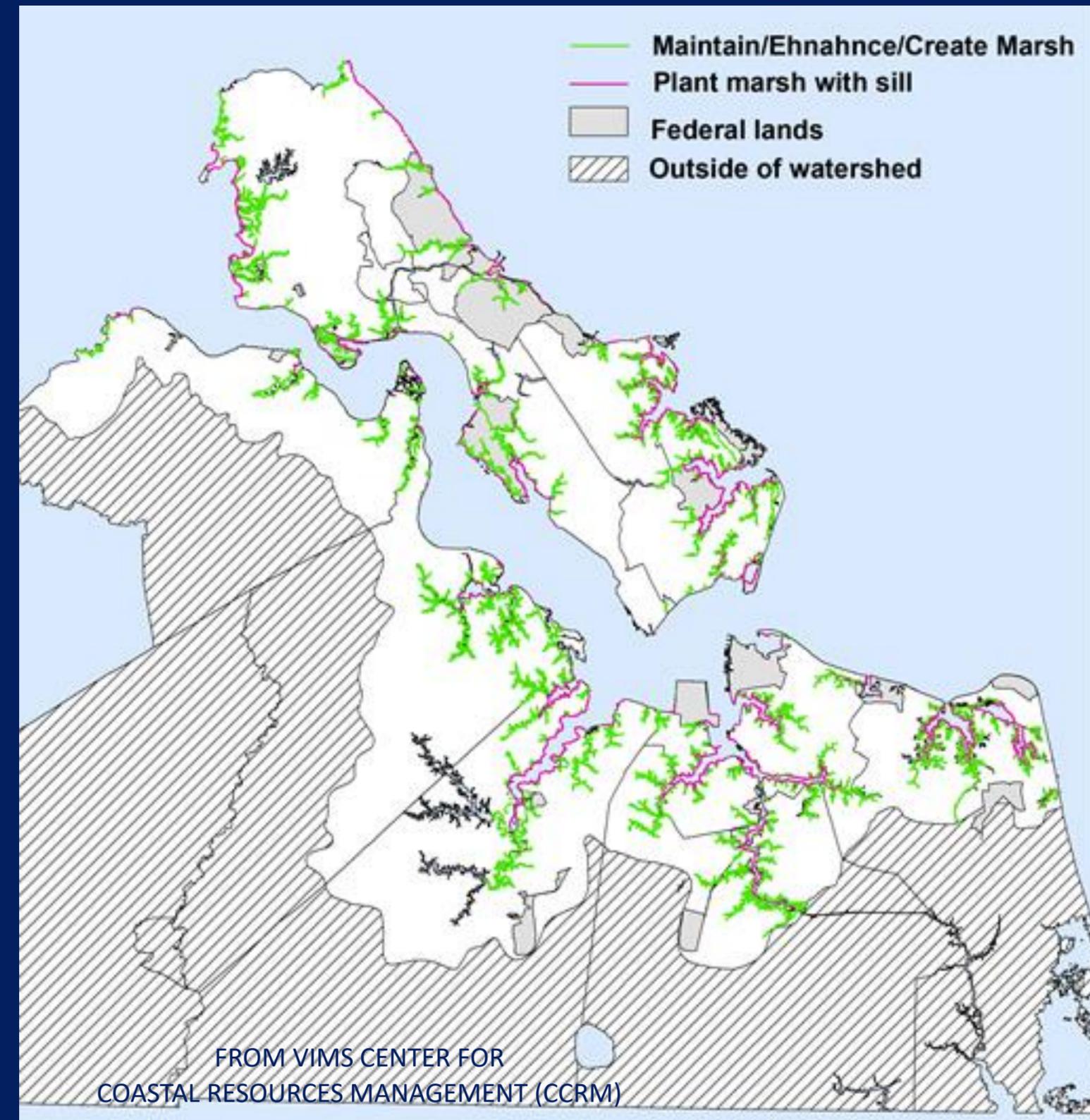


HRPDC's strategy

- Compile data from localities
- Identify planned projects
- Educate about co-benefits
- Propose incentive programs for implementing shoreline projects

Commonwealth's strategy

- Obtain linear feet implemented based on permits
- Incorporate PDC projections and potential state projects

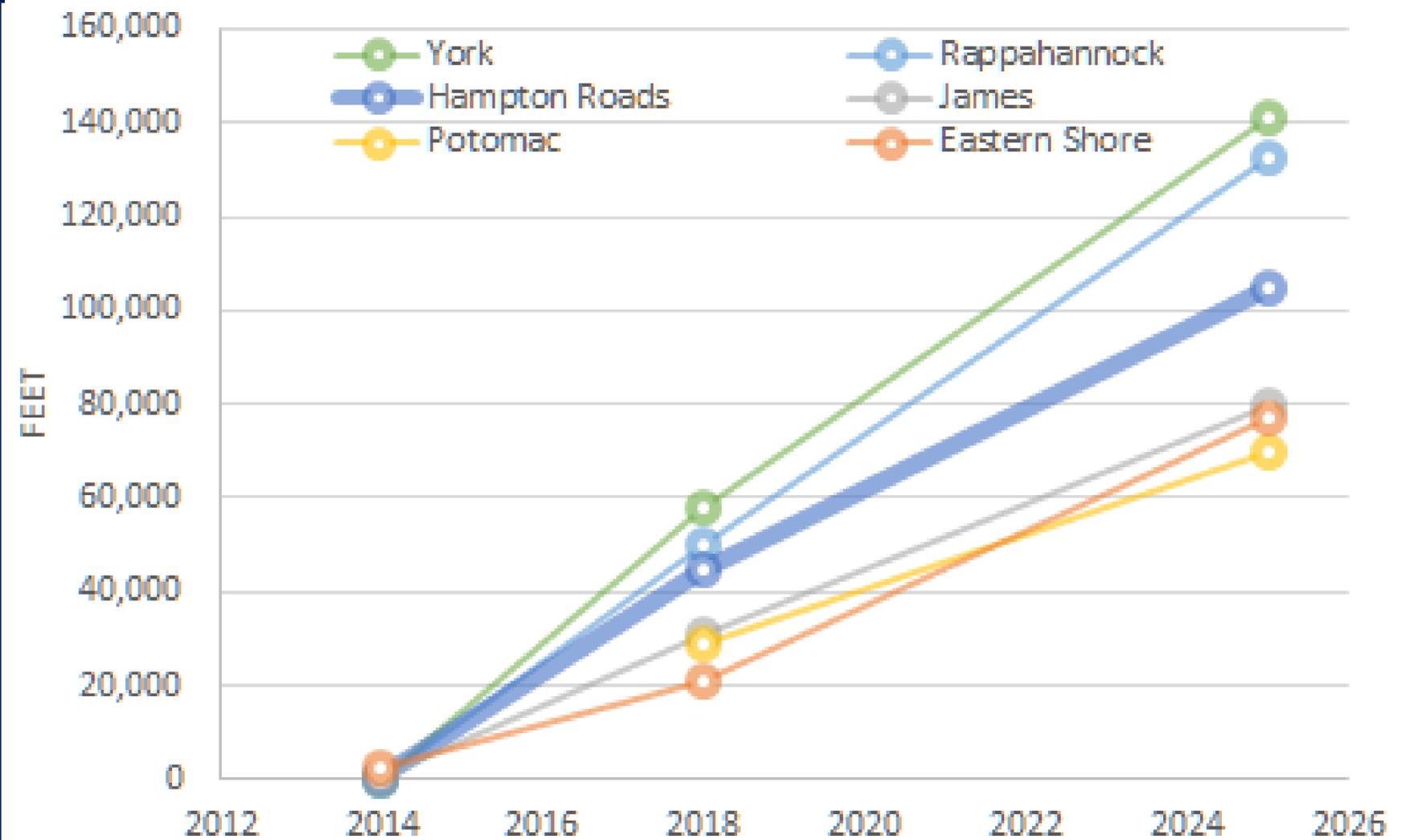


LINEAR BMPS - HAMPTON ROADS



Source: CAST; CBP Phase 6 model

SHORELINE MANAGEMENT IN VIRGINIA



16%

FEET OF SHORELINE MANAGEMENT BMP PROPOSED
IN JAMES RIVER BASIN

21%

FEET OF SHORELINE MANAGEMENT BMP PROPOSED
IN HAMPTON ROADS



"ENHANCE PROMOTION OF LIVING SHORELINE TECHNIQUES TO ADDRESS SHORELINE EROSION"

VIRGINIA'S PHASE III WIP

FROM WIP TO LEGISLATION



HB22, HB751, & SB320

- Renames Shoreline Resiliency Fund to Community Flood Preparedness Fund
- Creates low-interest loan program and may be used to implement community-scale mitigation activities

HB1375

- Adds that living shorelines are preferred way to stabilize tidal shorelines, directs DCR & VIMS to create technical guidance to support projects designed to attenuate wave action

BUDGET AMENDMENTS

- Up to \$10M/yr – Community Flood Preparedness Fund
- \$200K/yr – Living shoreline grants