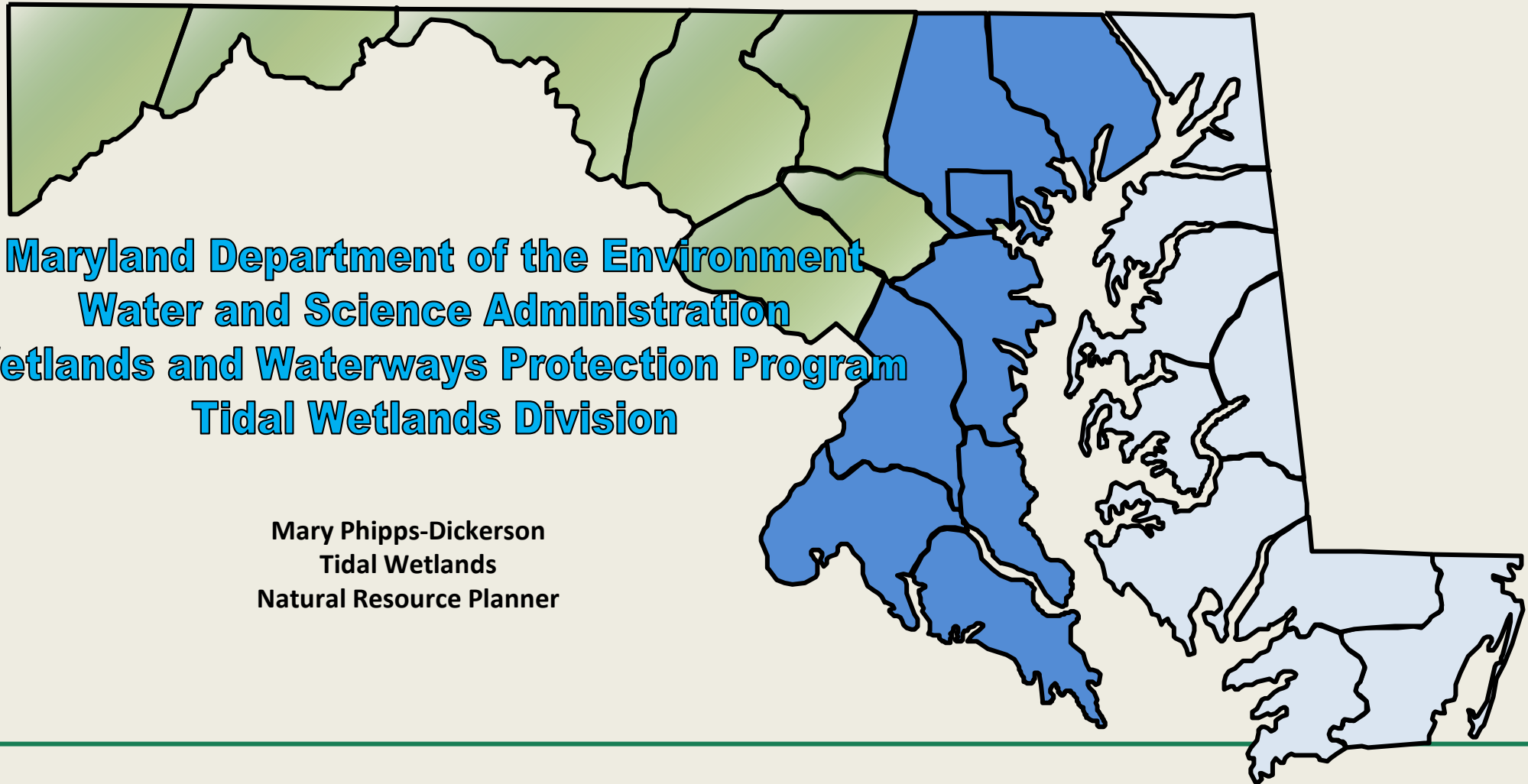




Maryland
Department of
the Environment

Maryland Shoreline Stabilization Mapper



Maryland Department of the Environment
Water and Science Administration

Wetlands and Waterways Protection Program
Tidal Wetlands Division

Mary Phipps-Dickerson
Tidal Wetlands
Natural Resource Planner



Living Shoreline Protection Act

- The Living Shoreline Protection Act was passed by the Maryland General Assembly during the 2008 Legislative Session.
- In February of 2013, tidal regulations for living shorelines were formalized.
- When considering a shoreline stabilization project, a property owner must first consider a method that consists of marsh creation or other nonstructural shoreline stabilization measure.



Living Shorelines Protection Act

The stabilization project should be dominated by tidal wetlands vegetation and designed to preserve the natural shoreline, minimize erosion and establish aquatic habitat



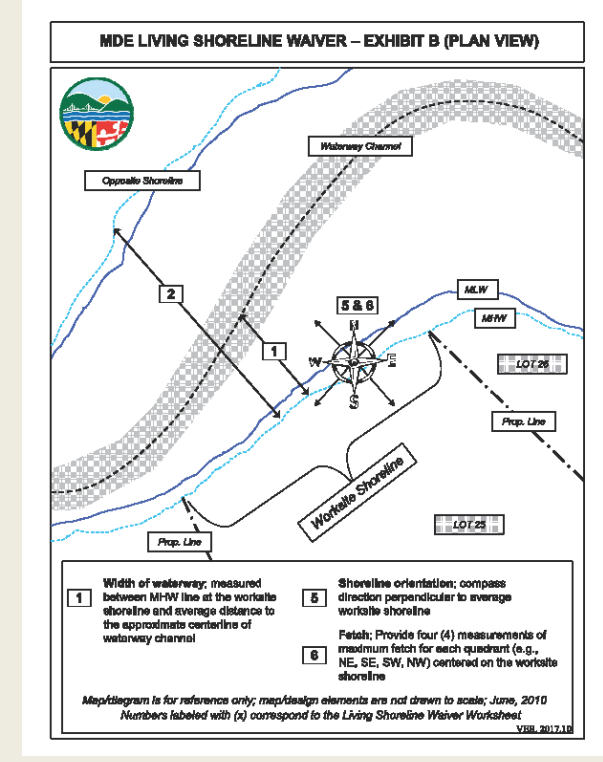
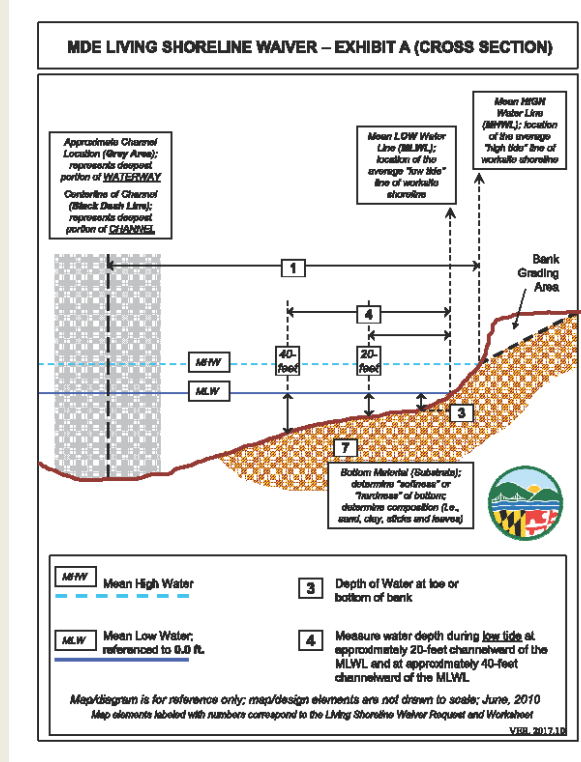


Living Shoreline Waiver

- An applicant may seek a waiver to the requirement:
 - Living Shoreline Waiver Request
 - DNR's Chesapeake & Coastal Services/ Coastal Engineer
 - Shoreline is mapped as an area appropriate for structural shoreline stabilization measures

LIVING SHORELINE WAIVER WORKSHEET			
Project Site Address: _____			
City, State, Zip: _____			
Existing Structure	Is the proposed project a replacement of a previously authorized, functional structure (i.e., replacement bulkhead)? <i>If yes, then check the yes box and do not fill out the rest of the form.</i>	<input type="checkbox"/> Yes (Waiver) <input type="checkbox"/> No	
Mapped Shoreline	Is the applicant's proposed project's shoreline mapped by MDE as an area appropriate for structural shoreline stabilization measures? If unknown, leave this section blank. <i>If yes, then check the yes box and do not fill out the rest of the form.</i>	<input type="checkbox"/> Yes (Waiver) <input type="checkbox"/> No	
1 Navigation	Distance in feet from the Mean High Water Line to the centerline of the closest mapped or unmapped navigable channel.		
2 Width of Waterway	Distance in feet from Mean High Water Line of proposed project's shoreline perpendicular across the waterway to the Mean High Water Line on the opposite shoreline.		
3 Depth at Toe of Bank	Depth of water in feet from the Mean Low Water Line to the bottom or toe of the shoreline bank.		
4 Depth of Waterway	Depth of water in feet relative to the Mean Low Water Line at 20-foot and 40-foot channelward of the Mean High Water Line at the proposed project's shoreline.	At 20 Ft. _____	At 40 Ft. _____
5 Shoreline Orientation	A. Provide a compass direction perpendicular to the line of the proposed project's shoreline. Direction can be given as NE, SW, etc. or as a compass bearing (i.e., 45°, 225°). B. Is bank grading or tree trimming required to provide at least six hours of daily sunlight.		
6 Fetch	Provide four measurements (in feet) of maximum unobstructed distance over open water for each compass quadrant (i.e., NE, SE, SW, NW) centered on the proposed project's shoreline at the applicant's shoreline.	NW _____ NE _____	SW _____ SE _____
7 Bottom Material	Thickness of bottom material in the proposed project's area of impact.	<input type="checkbox"/> Hard <input type="checkbox"/> Soft	
	Type of bottom material in the proposed project's area of impact.	<input type="checkbox"/> Muck <input type="checkbox"/> BR <input type="checkbox"/> Sand <input type="checkbox"/> Clay	
Sensitive Species	Will project construction adversely impact fish, plant, underwater vegetation, marsh, shellfish, wildlife habitat, or the area within 100 feet landward of the proposed project's shoreline? If unknown, leave this section blank.	<input type="checkbox"/> Yes (provide explanation and attach to this form) <input type="checkbox"/> No	
	A. Can the proposed project be constructed from the water? B. Does the access to the site require any grading or trimming of vegetation?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
I certify that the information on this form is true and accurate to the best of my knowledge and belief.			
PROPERTY OWNER SIGNATURE: _____ DATE: _____			
PROPERTY OWNER NAME (PRINT): _____			

VER. 2017.10





Previous Structural Shoreline Stabilization Maps





NEW Shoreline Stabilization Mapper (MSSM)

Need for more refined maps

VIMS developed a tool where the model output delineates areas suitable for LS and areas where waivers are appropriate





Shoreline Stabilization Mapper (MSSM)

Maryland
Department of the Environment

Maryland Shoreline Stabilization Mapper (MSSM)

VIMS | **WILLIAM & MARY**
VIRGINIA INSTITUTE OF MARINE SCIENCE
CENTER FOR COASTAL RESOURCES MANAGEMENT

Map Glossary

Getting Started

Welcome to the Maryland Shoreline Stabilization Mapper (MSSM)

Disclaimer: The Mapping Services provided herein are for reference only. The user of this information understands and acknowledges that the map data may be inaccurate or contain errors or omissions, and the user assumes the full responsibility for any risks or damages resulting from any use of or reliance upon this data. Maryland Department of the Environment (MDE), the Center for Coastal Resources Management (CCRM) at the Virginia Institute of Marine Science (VIMS), and their Agents or Affiliates do not guarantee the accuracy or reliability of the data generated from this service.

Use of the mapping tool is strongly encouraged for preliminary planning purposes, however, its use does not guarantee the approval of any authorization or shoreline project. Please contact the MDE Tidal Wetlands Division at (410) 537-3837 for coordination on specific projects.

This project has been funded wholly or in part by the United States Environmental Protection Agency under assistance agreements. The contents of this document do not necessarily reflect the views and policies of the Environmental Protection Agency, nor does the EPA endorse trade names or recommend the use of commercial products mentioned in this document.

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CENTER FOR COASTAL RESOURCES MANAGEMENT

I agree to the above terms and conditions

OK

10 km

<https://cm.ap22.vims.edu/MSSMTool/index.html>



Questions?

