

Contractor's Toolbox of On-line and Print Resources

On-line Resources

Virginia Institute of Marine Science (VIMS)

- Living Shorelines - Center for Coastal Resources Management:
<http://ccrm.vims.edu/livingshorelines/>
- Shoreline Management in the Chesapeake Bay (1999, Hardaway and Byrne)
http://www.vims.edu/research/departments/physical/programs/ssp/_docs/shoreline_erosion_ches_bay.pdf
- Living Shorelines – Questions frequently asked by property Owners:
<http://ccrm.vims.edu/livingshorelines/faq.html>
- Living Shoreline Design Guidance Class:
http://www.vims.edu/research/departments/physical/programs/ssp/shoreline_management/living_shorelines/class_info/index.php

Systems Approach to Geomorphic Engineering (SAGE)

- <http://sagecoast.org>
- SAGE Living Shoreline Brochure
http://sagecoast.org/docs/SAGE_LivingShorelineBrochure_Print.pdf

GIS Mapping Tools:

VIMS Comprehensive Coastal Resource Management Portals (CCRMPs):.

- Westmoreland County: <http://ccrm.vims.edu/ccrmp/westmoreland/>
- Northumberland County: <http://ccrm.vims.edu/ccrmp/northumberland/>
- Mathews County: <http://ccrm.vims.edu/ccrmp/mathews/>
- Lancaster County: <http://ccrm.vims.edu/ccrmp/lancaster/>
- Middlesex County: <http://ccrm.vims.edu/ccrmp/middlesex/>
- Shoreline Evolution:
http://www.vims.edu/research/departments/physical/programs/ssp/gis_maps/index.php
- VIMS Shoreline Assessment Mapper – NOTE: Requires Microsoft “Silverlight”. Works best in Internet Explorer, Firefox, and Safari. Does not work well in Google Chrome:
http://cmap.vims.edu/ShorelineAssessmentMapper_SL/ShorelineAssessmentMapperTestPage.html
- DEQ Wetland Condition Assessment Tool (WetCAT):
http://cmap.vims.edu/WetlandViewer/Virginia/WetCAT_VA.html

National Oceanic and Atmospheric Administration (NOAA)

- Coastal County Snapshots
www.coast.noaa.gov/snapshots/

Virginia Marine Resources Commission (VMRC)

- Living Shoreline Group 1 General Permit
<http://www.mrc.virginia.gov/Regulations/fr1300.shtm>
- Permit Tracking Database: <https://webapps.mrc.virginia.gov/public/habitat/>
- Chesapeake Bay Mapping Tool:
https://webapps.mrc.virginia.gov/public/maps/chesapeakebay_map.php

Chesapeake Bay Foundation (CBF)

- “Living Shorelines for the Chesapeake Bay Watershed”
<http://www.cbf.org/Document.Doc?id=60>

United States Environmental Protection Agency (EPA)

- Wetlands Overview: <http://water.epa.gov/type/wetlands/outreach/upload/overview-pr.pdf>
- Types of Wetlands: http://water.epa.gov/type/wetlands/outreach/upload/types_pr.pdf
- Functions and Values of Wetlands:
http://water.epa.gov/type/wetlands/outreach/upload/fun_val_pr.pdf
- Economic Benefits of Wetlands:
<http://water.epa.gov/type/wetlands/outreach/upload/EconomicBenefits.pdf>
- Wetlands Regulatory Authority:
http://water.epa.gov/type/wetlands/outreach/upload/reg_authority_pr.pdf

Chesapeake Bay Preservation Act – Virginia Department of Environmental Quality:
<http://law.lis.virginia.gov/vacodefull/title62.1/chapter3.1/article2.5/>

Virginia Department of Conservation and Recreation (DCR)

Resource Protection Area: Onsite Buffer Area Delineation:

<http://www.deq.virginia.gov/Portals/0/DEQ/Water/Guidance/ChesBayPreservAct/RPA-OnsiteBufferAreaDelineation.pdf>

Restore American’s Estuaries: www.estuaries.org

- “Living Shorelines: From Barriers to Opportunities”:
https://www.estuaries.org/images/stories/RAEReports/RAE_LS_Barriers_report_final.pdf

Northern Neck Master Gardeners Shoreline Evaluation Program:

<http://shorelinennmg.weebly.com>

- Plant Lists: <http://shorelinennmg.weebly.com/plant-lists.html>
- Riparian Buffers: <http://shorelinennmg.weebly.com/riparian-buffers.html>

Northern Neck Native Plant Society: www.nnps.org

- Salt Tolerant Northern Neck Native Plants:
http://www.nnpns.org/Go_Native_Grow_Native_files/SaltTolerant%282%29.pdf
- Native Plants for Northern Neck Bay-Friendly Properties:
http://www.nnpns.org/Go_Native_Grow_Native_files/WaterQuality.pdf

Print Resources

“Practical Living Shorelines Tailored to Fit in Chesapeake Bay”, Walter Priest, 2017, Chapter 10 in **Living Shorelines: The Science and Management of Nature-Based Coastal Protection**, CRC Press