

Senate Joint **Resolution 35 (2010)**

Senate Document 16 (2010)

REPORT OF THE VIRGINIA INSTITUTE OF MARINE SCIENCE

Study of Tidal Shoreline Management in Virginia: Recommendations for Living **Shorelines and Tidal Resources** Sustainability [SJR 35 (2010)]

TO THE GOVERNOR AND THE GENERAL ASSEMBLY OF VIRGINIA



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SENATE DOCUMENT NO. 16

Legislation

Senate Bill 964 (2011)

VIRGINIA ACTS OF ASSEMBLY - 2011 RECONVENED SESSION

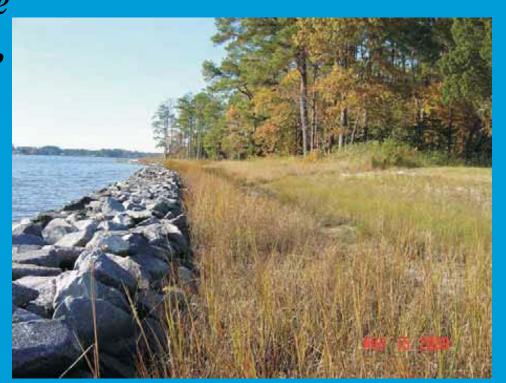
House Bill 911 (2014)

VIRGINIA ACTS OF ASSEMBLY - 2014 SESSION

An sict to amend and resease \$7.28.2.894.2, 28.2-2392, and 28.2-2493 of the Code of Tingman, relating to Bring Shoreline general promiss.



"Living shoreline" means a shoreline management practice that provides erosion control and water quality benefits; protects, restores or enhances natural shoreline habitat; and maintains coastal processes through the strategic placement of plants, stone, sand fill, and other structural and organic materials.





Living Shoreline Advisory Groups

Technical Workgroup

VMRC
VIMS (CCRM, Shoreline Programs
and Advisory Services)
DCR (SEAS and CBLAD) - DEQ
Corps of Engineers

Advisory Committee

Local Staff
Wetlands Board Members
Agents and Contractors

General Permit Development Considerations



General Permit Considerations



- Won't cover all types of living shoreline projects
- Two types of permits with different levels of review
 - Group 1 (Wetlands enhancement)
 - Group 2 (Sills)

- Streamlined procedure
- Eliminated or reduced fees
- Some level of review at local level
- Kick-out clause

Group 1 GP Overview

Components

- Designed to allow for enhancement of intertidal area to support establishment wetlands vegetation
- Fiber logs, fiber mats and shell bags
- Sand fill to enhance planting area
- Maximum fetch of ½ mile
- Confined to areas above mean low water



Group 1 Specific Criteria

- ❖ authorizes placement of fiber logs, fiber mats, shell bags, and sand to support the planting of wetlands vegetation. Logs, mats, and shell bags shall not be placed on existing vegetation.
- ❖ coarse sand containing less than 10% fine material (passing a #100 sieve) shall be utilized for any required fill.
- ❖ sand placement is limited to areas within the wetland jurisdiction and may not raise the elevation above 1.5 times the mean tide range above mean low water. Sand may be placed on existing wetlands vegetation if deemed necessary to improve wetlands habitat or resiliency provided there is no net loss in aerial coverage of vegetation.
- ❖ appropriate wetland vegetation shall be planted in all wetland areas where sand is placed where the resulting substrate elevation is appropriate to support wetland vegetation growth. Wetlands vegetation are those species listed in the code however *Phragmites sp.* is not typically considered an appropriate species for planting purposes.
- temporary grazing protection may be utilized (and is encouraged) to protect wetland vegetation and ribbed mussels. Protection should be depicted in the design.

Group 1 Specific Permit Requirements

- ❖ Permittee is required to notify VMRC upon completion of the project and shall provide brief monitoring report at the end of the first full growing season and after the second year of establishment. The monitoring shall be conducted between June and September and shall include at a minimum the project number, representative photos and a brief statement concerning the success of the project.
- ❖ Wetlands planted under the general permit shall not be cut and areas shall be replanted to ensure there is at least no net loss of wetland vegetation within the project area during the term of the permit. If necessary, additional sand may be placed to restore the originally proposed grade.
- ❖ Any measures undertaken to eradicate invasive wetlands vegetation (such as *Phragmites sp.*) shall be noted in the application or conducted in accordance with a plan approved by the wetlands board or locality. Such plans should include measures to revegetate the area with appropriate native wetlands vegetation.

Applicant submits complete JPA



LWB and VMRC review to determine if complete and appropriate for GP



LWB or VMRC determines project doesn't qualify or inappropriate for GP



LWB reviews via normal process

Living Shoreline Group 1 GP Procedures



LWB and VMRC determine project qualifies and is appropriate for GP



LWB notifies VMRC of their concurrence to use the GP process



VMRC issues **GP**



LWB approves, modifies, or denies project





Living Shoreline Group 1 General Permit in action









Ingredients





Group 2 GP Concepts

- Intended for the construction of certain riprap sills and marsh toe revetments and for the placement of sand to create or enhance tidal wetland areas
- Project may extend channelward of MLW
- Permit processing fee <u>may</u> be required

- APOs will be required to be notified and must not object
- No public notice requirement
- Some simple monitoring required

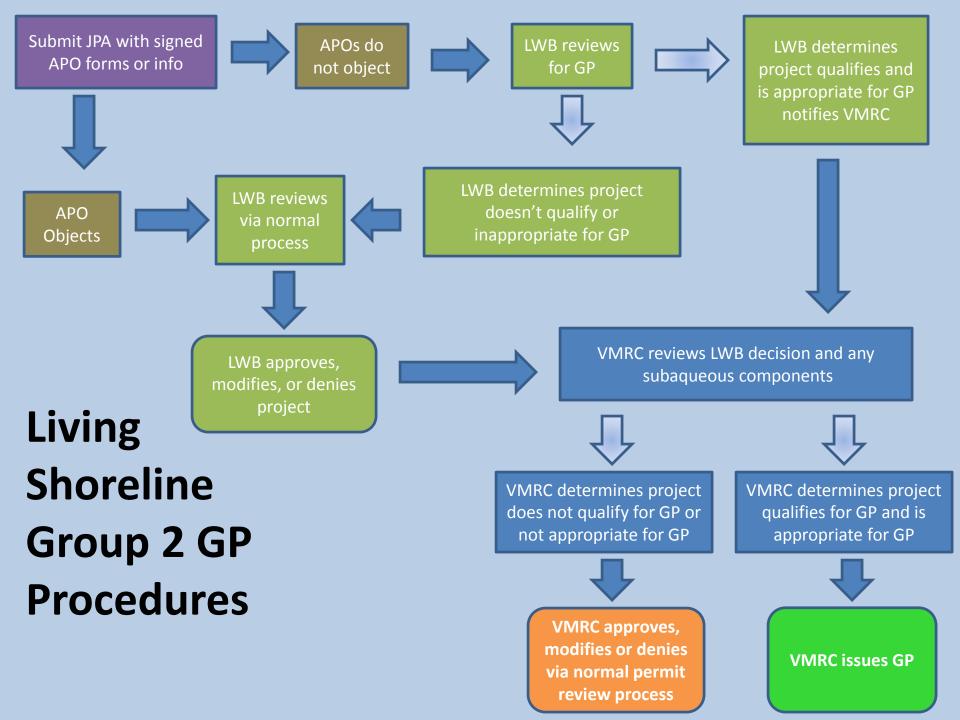


Group 2 GP Design Criteria

- Minimum fetch of ½ mile or evidence of active detrimental erosion
- Maximum fetch of 1 ½ miles
- Maximum depth of -2' at MLW
- Maximum of 30' channelward of MLW
- Maximum height of +1' MHW
- Slopes shall be no flatter than 2:1
- Broken concrete may be used for core material only
- Filter cloth shall be used under the structure

Group 2 GP Design Criteria (Continued)

- Sand may be placed on existing vegetation to enhance the wetland substrate provide there is a net gain in wetland vegetation
- The sill is the only <u>proposed</u> structure unless there is an <u>existing</u> shoreline structure landward of an existing fringe marsh
- Sills may not be placed on vegetated wetlands or SAV
- Filter cloth shall be used under the structure
- Requirement for gaps or windows every 100' (minimum of 1 per property)
- Ability for the Wetlands Board and VMRC to approve an alternative material











Group 2 GP Status?

