**Type-2 Living Shoreline Draft Buffer Management Plan**

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| This form provides instructions for submitting a draft Buffer Management Plan under the Joint Permit Application for a shore erosion control project involving a living shoreline when the conditions are categorized as Type-2. *Note: If the proposed project does not meet the criteria below, see Type-1 Living Shoreline Buffer Management Plan.* |

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| **TYPE-2 PROJECTS**Existing Buffer is **DENSELY VEGETATED / FORESTED** **OR**Buffer disturbance[[1]](#footnote-1) extends more than 15 feet landward (as measured from the edge of tidal wetlands or the mean high water). *Note: The Local Jurisdiction has the right to verify the shoreline conditions as documented on this form.*  |

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| **INSTRUCTIONS** Complete and submit Sections A - D of this form and the Buffer Notification Form (page 6) to the Maryland Department of the Environment as part of a complete Joint Permit Application.  |

**SECTION A: GENERAL DESCRIPTION**

1. Provide a short description of the proposed work:

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1. Applicant Information:

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| Name: |
| Address: |
| City: | State: Zip: |
| Telephone: ( ) | E-mail address: |

Property Owner: \_\_\_Yes \_\_\_No

1. Contractor Information:

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| --- |
| Name: |
| Address: |
| City: | State: Zip: |
| Telephone: ( ) | E-mail address: |

1. Work site address if different than Applicant address above:

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| --- |
| Address: |
| City: | State: Zip: |

1. If not provided as part of the MDE application, provide recent photographs (within the past six months) of the proposed area where shore erosion control work will be conducted, including photos of the Buffer.
2. The project site will be accessed during construction by (select one):

\_\_\_ Water (via Barge)

\_\_\_ Land. If by land, will existing access road be used? \_\_\_Yes \_\_\_No

\_\_\_ Other (please specify):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**SECTION B: IMPACTS & MITIGATION**

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| **Within the First 15 Feet of the Buffer**  |
| **Proposed Permanent Buffer Disturbance1** | **Mitigation Provided (Transition Zone \*)** |
| 1. Linear Length of Project

( \_\_\_\_\_ft) X Average Width Above MHW (\_\_\_\_\_ft.) | \_\_\_\_\_\_\_\_sq.ft. | 1. Linear Length of Project

 (\_\_\_\_\_ ft) X Average WidthAbove MHW (\_\_\_\_ft.) | \_\_\_\_\_\_\_\_sq.ft. |
| **Beyond the First 15 Feet of the Buffer**  |
| **Proposed Permanent Buffer Disturbance1** | **Mitigation Provided (Mitigation Chart \*\*)** |
| 1. Area of Tree Canopy Coverage Removed
 | \_\_\_\_\_\_\_\_sq.ft. | 1. Mitigation Required at a 1:1 Ratio for Tree Canopy Removed
 | \_\_\_\_\_\_\_\_sq.ft. |
| 1. Linear Length of Project (\_\_\_\_\_ft) X( \_\_\_\_\_ft) Width of Additional Disturbance Beyond the First 15 ft.
 | \_\_\_\_\_\_\_\_sq.ft. | 1. Mitigation in Accordance with the Mitigation Chart
 | \_\_\_\_\_\_\_\_sq.ft. |
| **TOTAL MITIGATION REQUIRED (i+ii+iii)** | **\_\_\_\_\_\_\_\_****sq.ft** | **TOTAL MITIGATION PROVIDED (i+ii+iii)** | **\_\_\_\_\_\_\_\_****sq.ft** |

*Note: Buffer mitigation may be provided in accordance with COMAR 27.01.09.01-2.J-M or within a local jurisdiction’s approved Buffer Mitigation standards.*

**\*Transition Zone:**

At the shoreward edge of the Buffer, provide a 15-foot transition zone consisting of a mixture of native warm season grasses, shrubs, and herbaceous plants that are appropriate for the climate, soil, and hydrology of the site. The transition zone must be the length of the shoreline project at an average width of 15 feet.

Plantings beyond this transition zone must meet the mitigation requirements for both permanent disturbance and canopy coverage removed, as found in COMAR 27.01.09.01-2 and with the Mitigation Chart below.

**\*\*Mitigation Chart:**

The following table from COMAR 27.01.09.01-2.L may be used to help determine the mitigation requirements in Section B.ii & iii.

*Note: Species selections to be used to fulfill the Buffer mitigation requirements can be found* [*here*](https://dnr.maryland.gov/criticalarea/Documents/chesapeakenatives.pdf)*.*

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| --- | --- | --- | --- | --- |
| Vegetation Type (Species) | Minimum Size | Credit (Sq. Ft.) | Quantity Provided | Mitigation Provided (Sq.Ft.) |
| Canopy Tree | 2” caliper and 8’ high | 200 |  |  |
| Canopy Tree | 1” caliper and 6’ high | 100 |  |  |
| Understory Tree | 1” caliper and 6” high | 75 |  |  |
| Large Shrub | 1 gallon and 4 feet high | 50 |  |  |
| Small Shrub | 1 gallon and 18” high | 25 |  |  |
| Herbaceous perennials | 1 quart | 2 |  |  |
| Planting Cluster 1 | 1 Canopy Tree plus 3 Large Shrubs, or 6 Small Shrubs of sizes listed above | 300 |  |  |
| Planting Cluster 2 | 2 Understory Trees plus 3 Large Shrubs, or 6 Small Shrubs of sizes listed above | 350 |  |  |
| **Total Mitigation Provided**  | **\_\_\_\_\_\_\_\_\_\_ sq. ft.** |

**SECTION C: DRAFT SKETCH**

Attach a draft Buffer Management Plan sketch to this form that includes the following components:

* The Critical Area Buffer.
* The location and the amount of disturbance to the Buffer that is proposed, including any areas of grading, access, stockpiling, and tree clearing. Cross sections showing any proposed grading is preferred.
* The total number and size of trees to be removed, the arrangement of the mitigation planting (including Transition Zone plantings), and the quantity and size of the mitigation. *Note: use Section B of this document to determine the correct amount of mitigation.*
* A note stating that the Buffer will be flagged in the field during construction.

**SECTION D: CERTIFICATION**

I will abide by this form and the attached Buffer Management Plan, if approved, and will not conduct any work beyond the limits of this plan and the corresponding MDE authorization. I understand that municipal or county staff may contact me and arrange to inspect the work. Disturbance within the Buffer beyond what is described herein is a violation of State and local laws. I also understand that the information listed herein will be required as part of a submittal for local approval of this shore erosion control application.

I certify that the information on this form is true and accurate to the best of my knowledge and belief.

\*\*PROPERTY OWNER SIGNATURE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 DATE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**\*\*PLAN IS INVALID WITHOUT A PROPERTY OWNER SIGNATURE**

**CRITICAL AREA BUFFER NOTIFICATION FORM**

NOTICE TO SHORE EROSION CONTROL APPLICANTS

**WHEN submitting a shore erosion control application to the Maryland Department of the Environment (MDE)**, the riparian property owner or their representative shall include this form along with the draft Buffer Management Plan.

Examples of Buffer Management Plans can be obtained by contacting the local government or the Critical Area Commission. This information is also available on the Commission’s website found [here](https://dnr.maryland.gov/criticalarea/Pages/sec.aspx):

1. MDE may determine the application is incomplete if a **COMPLETED** DRAFT Buffer Management Plan or this form is not included with the application.
2. In addition to a federal or State authorization, a local government approval is required before you begin your project.
3. Before beginning any work, including site preparation and stockpiling of materials, the riparian property owner or their representative must obtain:
	1. An authorization from MDE and the U.S. Army Corps of Engineers to construct and install a shore erosion control measure;
	2. Approval of the Buffer Management Plan from the local jurisdiction; AND
	3. Any other required local permits.
4. Buffer disturbance without a locally approved Buffer Management Plan or buffer disturbance that is not consistent with a locally approved Buffer Management Plan is a violation of State and local laws.

**CERTIFICATION;**

I have read and understand the requirements described in this NOTIFICATION FORM. I will abide by these requirements and the conditions of any State authorization and/or local approval. I will not begin any work without all required proper authorizations. Upon reasonable notice, I authorize the right to enter for periodic on-site evaluation by official representatives of the local Critical Area permitting authority.

SIGNATURE OF RIPARIAN PROPERTY OWNER OR REPRESENTATIVE:



PRINTED NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ADDRESS OF SHORE EROSION CONTROL PROJECT (Include city and zip):



CRITICAL AREA COMMISSION FOR THE CHESAPEAKE AND ATLANTIC COASTAL BAYS

1804 West Street, Suite 100 • Annapolis, MD 21401 • 410-260-3460

1. Permanent Buffer disturbance is defined as a material, enduring change in the topography or landscape. It includes grading or clearing of a tree, forest, or developed woodland. [↑](#footnote-ref-1)