| Project Name: | _ Submittal #: | Plans Dated: |  |
|---------------|----------------|--------------|--|
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## **Gloucester County**

## Erosion and Sediment Control Plan Submitter's Checklist

| OFNE         | <b>7</b> 41    |  |     |
|--------------|----------------|--|-----|
| <u>GENER</u> |                |  |     |
| Submis       | ssion Date_    | Project Name   |     |
| VESMF        | Permit #_      | Site Plan #  |     |
| Site Ad      | ldress         |  |     |
| Applica      | ant(s)         | Phone  |     |
| Applica      | ant(s) Legal   | Address  |     |
| Owner        | (s)            | Phone  |     |
| Owner        | (s) E-mail A   | ddress   |     |
| Princip      | al Designer    | Phone  |     |
| Princip      | al Designer    | E-mail Address   |     |
| Total D      | isturbed Are   | ea (Square Footage/Acres)  |     |
| Comple       | ete set of pla | eck boxes when completed.  ans- Include all sheets pertaining to the site grading and stormwater and any activities the sediment control and drainage including: | hat |
| (Sheet #     | #)             |  |     |
| 1.           |                | ☐ Existing conditions  |     |
| 2.           |                | ☐ Demolition   |     |
| 3.           |                | ☐ Site grading   |     |
| 4.           |                | ☐ Erosion and sediment control   |     |
| 5.           |                | ☐ Storm sewer systems  |     |
| 6.           |                | ☐ Stormwater management facilities   |     |

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| 7              | ☐ Utility layout  |
| 8              | ☐ Landscaping   |
| 9              | ☐ On-site and off-site borrow and disposal areas that do not have separate approved ESC Plans   |
| 10             | ☐ Professional's seal - The designer's original seal, signature, and date are required on the cover sheet of each Narrative and each set of Plan Sheets. A facsimile is acceptable for subsequent Plan Sheets.  |
| 11             | ☐ Number of plan sets – Attach two hard copy sets and one digital set of SWM/ESC Plans and submit the Community Development Coordinator in Planning & Zoning.   |
| 12             | ☐ Variances - Variances requested at the time of plan submission are governed by Section 9VAC25-875-170 of the <i>Virginia Erosion and Stormwater Management Regulations</i> .  |
| 13             | ☐ Certified Responsible Land Disturber (RLD) - A certified RLD is required during all stages of construction, from the initial land disturbance through final site stabilization. The name of the project RLD must be provided before any land disturbance may begin. Notify Gloucester County Environmental Department in a timely manner if the RLD changes during the project.                                       |
| NARRATIVE      |   |
| 14             | Project description - Briefly describe the nature and purpose of the land-disturbing activity. Provide the area (acres) to be disturbed.  |
| 15             | Existing site conditions - A description of the existing topography (% slopes), ground cover, and drainage (on-site and receiving channels).  |
| 16             | Adjacent areas - A description of all neighboring areas such as residential developments, agricultural areas, streams, lakes, roads, etc., that might be affected by the land disturbance.  |
| 17             | Off-site areas - Describe any off-site land-disturbing activities that may occur (borrow sites, disposal areas, easements, etc.). Identify the Owner of the off-site area and the entity responsible for plan review. Include a statement that any off-site land-disturbing activity associated with the project must have an approved ESC Plan. Submit documentation of the approved ESC Plan for each of these sites. |
| 18             | Soils - Provide a description of the soils on the site, giving such information as soil name, mapping unit, erodibility, permeability, surface runoff, and a brief description of depth, texture and soil structure. Show the site location on the Soil Survey, if it is available. Include a plan showing the boundaries of each soil type on the development site.  |

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| 19            |  | sediment impacts  | nat have potentially serious erosion (e.g., steep slopes, watercourses,                        |
| 20            | Controls should satisfy applicab   | used to control erc<br>le minimum standa                        | sion and sedimentation on the site.  |
| 21            | Management strategies / Sequestrategies, the sequence of conmeasures.  |   |  |
| 22            | Permanent stabilization - A brie will be stabilized after construct  | •   | ding specifications, of how the site   |
| 23            | ☐ Maintenance of ESC measures and repair of erosion and sedim  |   | •  |
| 24            | ☐ Calculations for temporary eros temporary ESC measure, provid specifications.  |   |  |
| 25            | · ·  | Will the increase in  | development of the site cause an runoff cause flooding or channel o control stormwater runoff, |
| 26            | Specifications / Detail Drawings each erosion and sediment con minimum, the detail from the stanewer) or more stringent local revisions to the standards and s | trol measure emplo<br>andard and specific<br>equirements. Inclu | oyed in the plan, include, at a cation in the VSWMH version 1.1(or                             |
| 27            | Specifications for stormwater a<br>specifications for stormwater ar<br>materials, pipe bedding, stormwater   | nd stormwater man   | <del>-</del>   |
| SITE PLAN     |  |   |  |
| 28            | ☐ Vicinity map - A small map loca<br>Include any landmarks that mig  | -   | ——————————————————————————————————————   |
| 29            | ☐ Indicate north - The direction of  | north in relation to  | the site.  |
| 30            | Off-site areas - Include any off-disposal areas, etc.) not covere  | •   | ` •  |

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| 31            |  | tandard and specifi  | asures used, including the VSWMH cation number. Include any other e plan.   |
| 32            | · · · · · · · · · · · · · · · · · · ·  | with differing line work or each adjacent property   | veights if proposed to be modified roperty, list the deed book and page   |
| 33            | Existing vegetation – Show the vegetation.   | existing tree lines,   | grassed areas, or unique  |
| 34            | ☐ Limits of clearing and grading   | – Delineate all areas  | s that are to be cleared and graded.  |
| 35            | Protection of areas not being that are not to be disturbed on  | •  | r other measures to protect areas   |
| 36            | ☐ Critical areas – Note all critical   | areas on the plan.   |   |
| 37            | ☐ Existing contours – Show the €   | existing contours of   | the site.   |
| 38            | Final contours and elevations - drainage patterns.   | - Show changes to  | the existing contours, including final  |
| 39            |  | Show all physical it   | as buildings, parking lots, access<br>tems that could affect or be affected   |
| 40            | ☐ Location of practices - The loc<br>management practices used o<br>abbreviations in the VSWMH v   | n the site. Use the  | •   |
| 41            | Adequate Conveyances – Ens capacity and adequate erosion concentrated stormwater runo including those receiving runof adequate. Increased volumes adequate channel, pipe or pipe | n resistance have be<br>ff. Off-site channels<br>ff from stormwater n<br>of sheet flows must | een for provided all on-site<br>s that receive runoff from the site,<br>nanagement facilities, must be<br>be diverted to a stable outlet, |
| 42            | Provide exhibits showing the cacreage) of each of the site diexisting and proposed.  |  |   |
| 43            | ☐ Provide calculations for pre- a  | nd post-developme  | nt runoff from these drainage areas.  |
| 44            | ☐ Ensure that Minimum Standar including those that receive rule  |  |   |

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| 45             | Provide calculations for the design of each permanent stormwater management facility.   |
| 46             | ☐ Ensure that increased volumes of sheet flows are diverted to a stable outlet, to an adequate channel, pipe or pipe system, or to a stormwater management facility.  |
| 47             | ☐ Provide adequacy calculations for all on-site stormwater conveyances.   |
|                | permanent stormwater conveyances - For each permanent stormwater conveyance or the following design calculations, as applicable:  |
| 48             | ☐ Drainage area map with time of concentration (TC) path shown  |
| 49             | ☐ TC calculation/nomograph  |
| 50             | ☐ Locality IDF curve  |
| 51             | ☐ Composite runoff coefficient or RCN calculation   |
| 52             | ☐ Peak runoff calculations  |
| 53             | ☐ Stormwater conveyance channel design calculations   |
| 54             | ☐ Storm drain and storm sewer system design calculations  |
| 55             | ☐ Hydraulic Grade Line if any pipe in the system is more than 90% full for a 10-year storm  |
| 56             | ☐ Culvert design calculations   |
| 57             | ☐ Drop inlet backwater calculations   |
| 58             | ☐ Curb inlet length calculations  |
| 59             | Direction of Flow for Conveyances - Indicate the direction of flow for all stormwater conveyances (storm drains, stormwater conveyance channels).   |
| 60             | Storm Drain Profiles - Provide profiles of all storm drains except roof drains. If the type of pipe (RCP, CMP, HDPE, etc.) is not called out on the profiles, then the most conservative pipe material that may be specified for the project must be used in the adequacy calculations. |

| MINIMUM STANDARDS  All Minimum Standards must be addressed. |    |        |  |  |
|---|----|--------|--|--|
| Yes   | No | N/A    |  |  |
|   |    | □ MS-1 | Have temporary and permanent stabilization been addressed in the narrative?  |  |
|   |    |        | Are practices shown on the plan?   |  |
|   |    |        | Temporary and permanent seed specifications?   |  |
|   |    |        | Lime and fertilizer?   |  |
|   |    |        | Mulching?  |  |
|   |    |        | Blankets/Matting?  |  |
|   |    |        | Pavement/Construction Road Stabilization?  |  |
|   |    | □ MS-2 | Has stabilization of soil stockpiles, borrow areas, and disposal areas been addressed in the narrative and on the plan?                |  |
|   |    |        | Have sediment trapping measures been provided?   |  |
|   |    | □ MS-3 | Has the establishment and maintenance of permanent vegetative stabilization been addressed?  |  |
|   |    | □MS-4  | Does the plan specifically state that sediment-trapping facilities shall be constructed as a first step in land-disturbing activities? |  |
|   |    | □ MS-5 | Does the plan specifically state that stabilization of earthen structures is required immediately after installation?                  |  |
|   |    |        | Is this noted for each measure on the plan?  |  |
|   |    | □MS-6  | Are sediment traps and sediment basins specified where needed and designed to the standard and specification?                          |  |
|   |    | □ MS-7 | Have the design and temporary/permanent stabilization of cut and fill slopes been adequately addressed?                                |  |
|   |    |        | Is Surface Roughening provided for slopes steeper than 3:1?  |  |

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| Proje | ect N | Name:   | Sub   | mittal #:               | Plans Dated:                       |
|-------|-------|---------|---|-------------------------|------------------------------------|
|       |       | □ MS-8  | Have adequate temporary or permaner drains) been provided for concentrated  | •                       |                                    |
|       |       | □ MS-9  | Has water seeping from a slope face b   | een addressed (e        | e.g., subsurface drains)?          |
|       |       | □ MS-10 | 0 Is adequate inlet protection provided for   | or all operational      | storm drain and culvert inlets?    |
|       |       | □ MS-11 | 1 Are adequate outlet protection and/or conveyance channels and receiving ch  |                         |                                    |
|       |       |         | Dimensions of the outlet protection?  |                         |                                    |
|       |       |         | Lining?   |                         |                                    |
|       |       |         | Size of riprap?   |                         |                                    |
|       |       |         | Cross section and slope of the channel  | s?                      |                                    |
|       |       |         | Type of lining?   |                         |                                    |
|       |       |         | Size of riprap, if used?  |                         |                                    |
|       |       | □ MS-12 | 2 Are in-stream protection measures rec   | quired so that cha      | annel impacts are minimized?       |
|       |       | □ MS-13 | 3Are temporary stream crossings of non  | -erodible materia       | al required where applicable?      |
|       |       | □ MS-14 | Are all applicable federal, state and loc live watercourses being followed?   | al regulations per      | rtaining to working in or crossing |
|       |       | □ MS-15 | 5 Has immediate restabilization of areas banks) been adequately addressed?  | subject to in-stre      | am construction (bed and           |
|       |       | □ MS-16 | 6 Have disturbances from underground ι  | ıtility line installati | ions been addressed?               |
|       |       |         | No more than 500 linear feet of trench  | open at one time        | ?                                  |
|       |       |         | Effluent from dewatering filtered or pass   | sed through a se        | diment-trapping device?            |
|       |       |         | Proper backfill, compaction, and restab   | ilization?              |                                    |
|       |       | □ MS-17 | 7 Is the transport of soil and mud onto pu<br>Construction Entrances, wash racks, tr<br>cleaning of roadways at the end of each<br>shoveling) | ansport of sedim        | ent to a trapping facility,        |

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| □ □ □ MS-18                                 | Has the removal of temporary practices been addressed?  |
|   | Have the removal of accumulated sediment and the final stabilization of the resulting disturbed areas been addressed?   |
| □ □ <b>MS-1</b> 9                           | Are properties and waterways downstream from development adequately protected from sediment deposition, erosion, and damage due to increases in volume, velocity and peak flow rate of stormwater runoff?   |
|   | Have adequate channels been provided on-site?   |
| practice of that pro<br>Virginia and attend | PARER professional in adherence to all minimum standards and requirements pertaining to the fession in accordance with Chapter 4 (§ 54.1-400 et seq.) of Title 54.1 of the Code of ant regulations. By signing this checklist, I am certifying that this document and all of the best of my knowledge and belief, true, accurate, and complete. |
| SIGNATURE                                   |   |
| PRINTED NAME _                              |   |
| QUALIFICATIONS                              |   |
| DATE  |   |
|   |   |

Please Note: The following are required for all ESC / SW Plans!

- 1. An Erosion and Sediment Control Surety will be required for the project. The surety calculation is: \$3,500 X the approved disturbed acreage. The surety is to be posted to Gloucester County in the form of Irrevocable Letter of Credit, Certified Check, or Money Order prior to the issuance of a Land Disturbance Permit.
- 2. If an onsite BMP is proposed, a BMP surety will also be required. The value of the surety is determined by a construction installation estimate submitted by the plan preparer.
- 3. A completed VAR 10 General Permit Registration Statement and ½ of total fee (balance paid on plan approval) required.
- 4. A complete Stormwater Pollution Prevention Plan is required on site prior to construction. SWPPP inspectors are required to hold a Qualified Personnel (QP) certification through the Department of Environmental Quality.
- 5. A Gloucester County Land disturbance permit and pre- construction meeting is required prior to construction.