##### Date:

##### Property Owner’s Information

##### Property Owner’s Name & Address:

##### Contact Person’s Name, Phone and Email:

##### ESC / SWM Plan Designer’s Information

Company Name & Address:

###### Contact Person Name, Phone and Email:

##### General Project Information

##### Project Name:

##### Project Address and Property Identification Number (PIN) or Map Number:

Total Proposed Disturbed Area (acres):

(Note that 1 acre or more of disturbed area requires a VSMP Permit)

Total existing impervious area prior to construction (acres):

Proposed impervious area after construction is complete (acres):

Narrative of current site conditions and final site conditions:

**Erosion and Sediment Control Information**

Existing Site Conditions (check all that apply)

Forest Grass Buildings Asphalt / Concrete Bare soil

##### Adjacent Properties and their Direction from the Project’s Center (example: Piedmont Drive to the Northeast)

Roads adjacent to the project:

Are there and homes adjacent to the project? Yes No

Names of businesses or industries adjacent to the project:

Streams, water bodies, rivers, wetlands, etc. adjacent to the project:

##### Existing Site Conditions

Existing Topography:

Existing Vegetation:

Existing Drainage:

**Onsite Soils Information**

Soil Name(s):

Soil Group:A B C D

Soil Erodibility (K Factor)  0.23 or less  0.24 - 0.36  0.37 or higher

**Buffer Information**

Minimum distance from project limits to the next downstream property or water body0 – 50 ft  50 – 100 ft  100 – 300 ft  Over 300 ft

Buffer type (check all that apply): Forest Field (unmowed) Grass Bare soil / asphalt

If buffer includes field or grass, list condition: Excellent Good Fair Poor

**Watercourse Crossing**

Will there be any watercourse crossings (either temporary or permanent)? Yes No

**Offsite Activity**

Will fill material be hauled to this site from an offsite area? Yes No

Will excess or unsuitable soil have to be transported to an offsite area? Yes No Unknown

If Yes to either of these questions, an offsite ESC plan will have to be submitted for approval.

**Wetlands/Streams/Jurisdictional Channels Onsite (these areas must be clearly indicated on the site plan**)

Are there any identified or suspected wetlands on the property? Yes No

Are there any water bodies, creeks or streams on the property? Yes No

Are there any existing defined channels (wet or dry) on the property? Yes No

If the answer is yes to any of these, will there be any impacts to any of these resulting from this project? Yes No

If you answered yes, have the proper permits been obtained or is there documentation allowing the impacts? Yes No

Please submit any correspondence and permits concerning any proposed impacts to jurisdictional wetlands, streams and channels. The plan cannot be approved without proper documentation or necessary permits for jurisdictional impacts.

Comments:

###### Critical Areas (all critical areas should be clearly indicated on the site plan)

List any critical areas here:

###### Phased Plan Description. These phased plan descriptions should be represented on separate plan sheets.

Phase 1 description:

Phase 2 description:

Phase 3 description:

Phase 4 description:

Phase 5 description:

Additional:

**Proposed Erosion and Sediment Controls**

The following is a list of all erosion and sediment controls described in the Virginia Erosion and Sediment Control Handbook (VESCH) along with their specification numbers. Please mark all controls that are specified on the plan and that will be used onsite.

|  |  |
| --- | --- |
| Safety Fence-3.01  Construction Entrance-3.02  Construction Road Stablization-3.03  Straw Bale Barrier-3.04  Silt Fence-3.05  Brush Barrier-3.06  Storm Drain Inlet Protection-3.07  Culvert Inlet Protection-3.08  Temporary Diversion Dike-3.09  Temporary Fill Diversion-3.10  Temporary Right-Of-Way Diversion-3.11  Diversion-3.12  Temporary Sediment Trap-3.13  Temporary Sediment Basin-3.14  Temporary Slope Drain-3.15  Paved Flume-3.16  Stormwater Conveyance Channel-3.17  Outlet Protection-3.18  Riprap-3.19  Rock Check Dams-3.20 | Level Spreader-3.21  Vegetative Streambank Stablization-3.22  Structural Streambank Stabilization-3.23  Temp. Vehicular Stream Crossing-3.24  Utility Stream Crossing-3.25  Dewatering Structure-3.26  Turbidity Curtain-3.27  Subsurface Drain-3.28  Surface Roughening-3.29  Topsoiling-3.30  Temporary Seeding-3.31  Permanent Seeding-3.32  Sodding-3.33  Bermuda grass Establishment-3.34  Mulching-3.35  Soil Stabilization Blankets & Matting-3.36  Trees, Shrubs, Ground Covers-3.37  Tree Preservation & Protection-3.38  Dust Control-3.39 |

Are there any proposed controls on the ESC Plan that are not referenced in the Virginia Erosion & Sediment Control Handbook? Yes No

If Yes, the details (including maintenance) of each control not referenced to the VESCH must be provided on the ESC plan.

Any proposed controls not referenced to the VESCH must be listed here.

**ESC Plan Variance Request**

Will there be any request for a variance to any of the Minimum Standards? Yes No

If the answer is yes, please submit all variance requests for review using the Variance Request Form. Please include the following information in the request:

* the minimum standard for which you are requesting the variance,
* the reason you are requesting the variance, and
* exactly what is being requested and at what location.

**ESC Plan Calculations**

Please attach all calculations relevant to the erosion and sediment control plan. The following are some examples of items that require calculations for their design.

* Sediment Traps
* Sediment Basins
* Temporary Slope Drains
* Riprap Outlet Protections
* Stormwater conveyance channels
* Level Spreaders

**Vegetative Stabilization Practices**

Refer to 3.31 & 3.32 & 3.35 in Chapter 3 of the VESCH. All vegetative practices including mulch, lime & fertilizer requirements shall also be listed on the Erosion and Sediment Control Site Plan.

**Stormwater Management Information**

**A map or maps of the site shall be submitted that depicts the topography of the site and includes:**

* All contributing drainage areas.
* Existing streams, ponds, culverts, ditches, wetlands, other water bodies, and floodplains.
* Soil types, forest cover, and other vegetative areas.
* Current land use including existing structures, roads, and locations of known utilities and easements.
* Sufficient information on adjoining parcels to assess the impacts of stormwater from the site on these parcels.
* The limits of clearing and grading, and the proposed drainage patterns on the site.
* Proposed buildings, roads, parking areas, utilities, and stormwater management facilities.
* Proposed land use with tabulation of the percentage of surface area to be adapted to various uses, including but not limited to planned locations of utilities, roads, and easements.

**Predevelopment and post development runoff**

Pre and post development drainage areas must be shown on the plan.

Information on the type and location of stormwater discharges; information on the features to which stormwater is being discharged including surface waters:

Refer to Virginia Administrative Code [9VAC25-870-](http://leg1.state.va.us/cgi-bin/legp504.exe?000+reg+9VAC25-870-66)72 for hydraulic methods that should be used.

Total Pre-Development Runoff (existing conditions)

* 1 year storm:       cfs
* 2 year storm:       cfs
* 10 year storm:       cfs
* 100 year storm:       cfs

Total Post-Development Runoff Before Stormwater Management

* 1 year storm:       cfs
* 2 year storm:       cfs
* 10 year storm:       cfs
* 100 year storm:       cfs

Total Post-Develoment Runoff After Stormwater Management

* 1 year storm:       cfs
* 2 year storm:       cfs
* 10 year storm:       cfs
* 100 year storm:       cfs

\*If the project has multiple drainage areas (pre and/or post), each area will need to be evaluated and calculations provided for each area. The pre-construction drainage areas and post-construction drainage areas must be shown (on separate plan sheets) and each drainage area should be clearly identified so that the calculations for each drainage area can be matched to the referenced drainage area. The points of analysis should also be clearly indicated.

**If there is an increase in runoff, how is that increase proposed to be addressed?**

No Increase / Decrease

Adequate Channel: refer to Minimum Standard 19 and submit all appropriate analysis calculations

Post Construction BMPs: submit all appropriate design calculations

Other - Explain Here:

**Stormwater Management Facilities**

Provide a general description of the proposed stormwater management facilities Including:

The type of facilities / geographic coordinates / acres treated / surface waters into which the facility will discharge.

|  |  |  |  |
| --- | --- | --- | --- |
| Type of Facility | Geographic Coordinates (Lat/Lon) | Acres Treated | Surface Waters Discharged To |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

A construction record drawing for permanent stormwater management facilities shall be submitted to the City of Danville. The construction record drawing shall be appropriately sealed and signed by a professional registered in the Commonwealth of Virginia, certifying that the stormwater management facilities have been constructed in accordance with the approved plan.

Elements of the stormwater management plans that include activities regulated under Chapter 4 (§54.1-400 et seq.) of Title 54.1 of the Code of Virginia shall be appropriately sealed and signed by a professional registered in the Commonwealth of Virginia pursuant to Article 1 (§ 54.1-400 et seq.) of Chapter 4 of Title 54.1 of the Code of Virginia.

**Submit all stormwater management calculations for review. The following are examples of items that require calculations.**

* Pre-development Runoff ( based on 1y/ 2y/10y/100y storms) for each drainage area
* Post-developed Runoff ( based on 1y / 2y/10y/100y storms) for each drainage area
* Downstream Adequate Channel (Minimum Standard 19)
* Onsite stormwater conveyance features (stormwater pipes, conveyance channels, ditches, etc.)
* Inlets
* BMP Facility design calculations

**Virginia Stormwater Management Program Permit**

Is the proposed disturbed area equal to or greater than 1 acre? Yes No

If the answer is Yes, then a Virginia Stormwater Management Program Construction General Permit will be required prior to construction.

Provide documentation and calculations verifying compliance with the water quality and quantity requirements. Reference the following Virginia Administrative Code sections for requirements related to Part II B technical criteria:

9VAC25-870-62 [applicability];

[9VAC25-870-63](http://leg1.state.va.us/cgi-bin/legp504.exe?000+reg+9VAC25-870-63) [water quality design criteria requirements];

[9VAC25-870-65](http://leg1.state.va.us/cgi-bin/legp504.exe?000+reg+9VAC25-870-65) [water quality compliance];

[9VAC25-870-66](http://leg1.state.va.us/cgi-bin/legp504.exe?000+reg+9VAC25-870-66) [water quantity];

[9VAC25-870](http://leg1.state.va.us/cgi-bin/legp504.exe?000+reg+9VAC25-870-66)-69 [offsite compliance options];

[9VAC25-870-](http://leg1.state.va.us/cgi-bin/legp504.exe?000+reg+9VAC25-870-66)72 [design storms and hydrologic methods];

[9VAC25-870-](http://leg1.state.va.us/cgi-bin/legp504.exe?000+reg+9VAC25-870-66)74 [stormwater harvesting];

[9VAC25-870](http://leg1.state.va.us/cgi-bin/legp504.exe?000+reg+9VAC25-870-66)-76 [linear development project]; and,

[9VAC25-870](http://leg1.state.va.us/cgi-bin/legp504.exe?000+reg+9VAC25-870-66)-85 [stormwater management impoundment structures or facilities],

9VAC25-870-92 [comprehensive stormwater management plans];

Also refer to the Construction General Permit for additional requirements including the Stormwater Pollution Prevention Plan requirements.