



Worksheet B1

Construction Protection: Medium and Large Projects (SWPPP: Stormwater Pollution Prevention Plan)

- Submit a site plan demonstrating the construction protective measures or best management practices that will be used for the project during the construction phase.**

Refer to REFERENCE B1A for examples of Construction Best Management Practices (BMP's) that you can use. The activities that take place during construction are the highest risk for stormwater problems such as erosion and sediment control (you may need to provide an additional site plan with greater detail for stormwater features. If so, make sure it is consistent with the primary site plan. Remember that all site plans submitted for the project must be consistent and accurate).

Element 1: Preserve Vegetation / Mark Clearing Limits

The goal of this element is to preserve native vegetation and to clearly show the limits of disturbance.

Choose any of the following that apply:

- The perimeter of the area to be cleared shall be marked prior to clearing operation with visible flagging, orange plastic barrier fencing and/or orange silt fencing as shown on the SWPPP site plan. Vehicles will only be allowed in the areas to be graded, so no compaction of the undeveloped areas will occur. If this option is selected check the BMPS you will use below:
 - [C101 Preserving Natural Vegetation](#)
 - [C102 Buffer Zones](#)
 - [C103 High Visibility Fence](#)
- It is necessary to disturb the entire property during this project due to existing site conditions, property constraints, and proposed design. I understand that all disturbed land not covered by hard surface at the end of the project is subject to soil amendment requirements per BMP T5.13 Post-Construction Soil Quality and Depth.
- The site was cleared as part of clearing activity that is subject to an enforcement action and will be re-vegetated. Restoration may be necessary to comply with Critical Area Regulations or stormwater requirements. Buffer Zones- BMP C102 may apply if Critical Areas exist on-site and buffer zones shall be protected.

Element 2: Construction Access

The goal of this element is to provide a stabilized construction entrance/exit to prevent or reduce or sediment track out.

Choose one of the following:

- The driveway to the construction area already exists and will be used for construction access. All equipment and vehicles will be restricted to staying on that existing impervious surface. If sediment is tracked off site, the roadway will be cleaned thoroughly at the end of each day.
- A stabilized construction entrance will be installed prior to any vehicles entering the site, at the location shown on the SWPPP site plan. If sediment is tracked off site, the roadway will be cleaned thoroughly at the end of each day. If this option is selected check the BMPS you will use below:
 - [C105 Stabilized Construction Entrance / Exit](#)
 - [C106 Wheel Wash](#)
 - [C107 Construction Road / Parking Area Stabilization](#)



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Element 3: Control Flow Rates

The goal of this element is to construct retention or detention facilities when necessary to protect properties and waterways downstream of development sites from erosion and turbid discharges.

This element **does not** apply to my project because (check any that apply):

- Site is mildly sloped (<5%),
- There are no individually sloped sections greater than 10%,
- The bulk of the project is scheduled to occur during dry season (May 1-Sept 30)

Element 4: Sediment Control

The goal of this element is to construct sediment control BMPs that minimize sediment discharges from the site.

Select one of the two statements applicable to the project.

- The site has already been stabilized and re-vegetated.
- Sediment control BMPs shall be placed at the locations shown on the SWPPP Site Plan. If this option is selected check the BMPS you will use below:
 - [C231 Brush Barrier](#)
 - [C233 Silt Fence](#)
 - [C235 Wattles](#)
 - [C232 Gravel Filter Berm](#)
 - [C234 Vegetated Strip](#)

Element 5: Stabilize Soils

The goal of this element is to stabilize exposed and unworked soils by implementing erosion control BMPs.

Select one of the three statements applicable to the project.

- My project will ensure the following:
 - Soil stockpiles will be located within the disturbed area shown on the SWPPP Site Plan.
 - Soil excavated for the foundation will be backfilled against the foundation and graded to drain away from the building.
 - No soils shall remain exposed and unworked for more than 7 days from May 1 to September 30 or more than 2 days from October 1 to April 30.
 - Once the disturbed landscape areas are graded, the grass areas will be amended.
 - All stockpiles will be covered with plastic or burlap if left unworked.
- This element **does not** apply to my project because:
- My project must implement specific BMP's to ensure compliance. (Check BMP's you will use on the next page).



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- | | | | |
|---|---|--|---|
| <input type="checkbox"/> C120 Temporary & Permanent Seeding | <input type="checkbox"/> C122 Nets & Blankets | <input type="checkbox"/> C124 Sodding | <input type="checkbox"/> C131 Gradient Terraces |
| <input type="checkbox"/> C121 Mulching | <input type="checkbox"/> C123 Plastic Covering | <input type="checkbox"/> C125 Topsoil / Composting | <input type="checkbox"/> C140 Dust Control |
| <input type="checkbox"/> C235 Wattles | | | |

Element 6: Protect Slopes

The goal of this element is to design and construct cut-and-fill slopes in a manner to minimize erosion.

Select one of the two statements applicable to the project.

- No cut slopes over 4 feet high or slopes steeper than 2 feet horizontal to 1 foot vertical, and no fill slopes over 4 feet high will exceed 3 feet horizontal to 1 foot vertical. Therefore, there is no requirement for additional engineered slope protection.
- The above checkbox is not checked. My submittal is designed by a licensed geologist to protect slopes. Based on the licensed professionals recommendation (please attach their evaluation), the following BMP's will be used:
- | | | |
|---|---|---|
| <input type="checkbox"/> C120 Temporary & Permanent Seeding | <input type="checkbox"/> C205 Subsurface Drains | <input type="checkbox"/> C207 Check Dams |
| <input type="checkbox"/> C204 Pipe Slope Drains | <input type="checkbox"/> C206 Level Spreader | <input type="checkbox"/> C208 Triangular Silt Dike (Geotextile-Encased Check Dam) |

Element 7: Protect Permanent Drain Inlets

The goal of this element is to protect storm drain inlets during construction to prevent stormwater runoff from entering the conveyance system without being filtered or treated.

Select one of the three statements applicable to the project.

- The site has open ditches in the right-of-way or private road right-of-way.
- There are no catch basins on or near the site.
- Catch basins on the site or immediately off site in the right-of-way are shown on the SWPPP Site Plan. Storm drain inlet protection shall be installed. If this option is selected check the BMPS you will use below:
- [C220 Storm Drain Inlet Protection](#)



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Element 8: Stabilize Channels and Outlets

The goal of this element is to design, construct, and stabilize on-site conveyance channels to prevent erosion from entering existing stormwater outfalls and conveyance systems.

Select one of the three statements applicable to the project.

- Construction will occur during the dry weather. No storm drainage channels or ditches shall be constructed either temporary or permanent.
- There are no existing or proposed stormwater conveyance channels on the project site.
- A wattle shall be placed at the end of the swale to prevent erosion at the outlet of the swale. If this option is selected check the BMPS you will use below:
- [C202 Channel Lining](#) [C207 Check Dams](#) [C209 Outlet Protection](#) [C235 Wattles](#)

Element 9: Control Pollutants

The goal of this element is to design, install, implement and maintain BMPs to minimize the discharge of pollutants from material storage areas, fuel handling, equipment cleaning, management of waste materials, etc.

This element **does not** apply to my project because (circle any that apply - If any box is unchecked this element applies).

- There will be no concrete work,
- There will be no sawcutting work,
- There will be no hazardous materials on-site,
- There will be no fertilizer or pesticide application,
- There will be no heavy equipment associated with this project,
- There will be no pressure washing, equipment maintenance or dewatering

If one or more of the checkboxes above are unchecked. Any and all pollutants, chemicals, liquid products and other materials that have the potential to pose a threat to human health or the environment will be covered, contained, and protected from vandalism. All such products shall be kept under cover in a secure location on-site. Concrete handling shall follow BMP C151 C154. If this option is selected check the BMPS you will use below:

- [C151 Concrete Handling](#) [C152 Sawcutting and Surfacing Pollution Prevention](#)
- [C153 Material Delivery, Storage, and Containment](#) [C154 Concrete Washout Area](#)



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Element 10: Control De-watering

The goal of this element is to handle turbid or contaminated water from dewatering (removal of water) separately from stormwater.

Select one of the two statements applicable to the project.

- No dewatering of the site is anticipated.
- Dewatering of the site is anticipated. If this option is selected check the BMPS you will use below:
- [C203 Water Bars](#) [C236 Vegetated Filtration](#) [C206 Level Spreader](#)

Element 11: Maintain Best Management Practices

The goal of this element is to maintain and repair all temporary and permanent erosion and sediment control BMPs to assure continued performance.

Describe the steps you will take:

- Best Management Practices or BMPs shall be inspected and maintained during construction and removed within 30 days after the County Inspector or determines that the site is stabilized, provided that they may be removed when they are no longer needed.

Element 12: Manage the Project

The goal of this element is to ensure that the owner and those performing the site work comply with the SWPPP and properly coordinate to ensure that all BMPs are deployed at the proper time to achieve full compliance with county regulations throughout the project.

The SWPPP will be implemented at all times. If applicable to the project, erosion control BMPs will be implemented in the following sequence:

1. Mark clearing limits
2. Install stabilized construction entrance
3. Install protection for existing drainage systems and permanent drain inlets
4. Establish staging areas for storage and handling polluted material and BMPs
5. Install sediment control BMPs
6. Grade and install stabilization measures for disturbed areas
7. Maintain BMPs until site stabilization, at which time they may be removed



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Element 13: Protect Low Impact Development BMPs

The goal of this element is to protect permanent stormwater management BMPs from siltation and compaction during construction. The permanent stormwater management BMPs used for runoff from roofs and other hard surfaces include: full dispersion, roof downspout full infiltration or dispersion systems, perforated stubout connections, rain gardens, bioretention systems, permeable pavement, sheetflow dispersion, and concentrated flow dispersion.

Methods that will be used to protect permanent stormwater management BMPs include:

- Sequencing the construction in a fashion to install these permanent BMPs at the latter part of the construction grading operations,
- Excluding equipment from the BMPs and the associated areas,
- Using the erosion and sedimentation control BMPs listed below to protect facilities such as drywells, raingardens, permeable pavement, or bioretention from accumulating sediment during construction and before site restoration. If this option is selected check the BMPS you will use below:
 - [C102 Buffer Zone](#)
 - [C103 High Visibility Fence](#)
 - [C233 Silt Fence](#)
 - [C234 Vegetated Strip](#)
 - [C231 Brush Barrier](#)
 - Other

Applicant or Representative Signature _____