Sample Plan

STORMWATER POLLUTION PREVENTION PLAN --------- NARRATIVE

General Information:
MN DOT requires that persons designing projects with NPDES requirements must pass a certification course in the "Design of Stormwater Pollution Prevention Plans". (See: https://www.erosion.umn.edu for course details and schedules.) Use the SWPPP Certification form on the Design Website for Consultant developed SWPPP Plans.

If the project disturbs 1 or more acres of land, the Temporary and Permanent Erosion Control Plans must meet the requirements of the MPCA General Permit Authorization to Discharge Storm Water Associated with a Construction Activity under the NPDES permit.

If the project requires a NPDES permit, then the plan must include an SWPPP plan.

The SWPPP plan narrative should include a project description, project contacts, a summary of the computations and a cross reference chart for the locations where the miscellaneous SWPPP requirements are located in the plan, or a general contact office.

Project contacts should be simple - give a general telephone number and an address for the Residence Office and Maintenance Office responsible for construction and maintenance of the project. Include the MPCA 24 hour emergency notification number.

The Designer should review the SWPPP to make sure that all references to pay items have been incorporated in the Plan.

Designate areas where toxic or hazardous materials cannot be located unless protected in engineered containment or storage systems. Require dumpsters for trash and treated wood removal. Require all absorbents, mats, and booms for all operations with the potential to discharge fluids to waters of the state. Incidental.

Consider designating critical areas as Site Plan Requirement Areas as per 1717.2E to make sure items not shown in the plan or items that were missed through the design process are addressed in the field by the contractor.

Work with Water Resources to get all necessary permits.

References:
Design Scenic: Chapter 13 - Turf Establishment / Erosion Control
Road Design Manual: Chapter 8-5

STORMWATER POLLUTION PREVENTION PLAN ------ CHECKLIST

1. Project description / location
2. Areas of Environmental Sensitivity
3. Land feature changes
4. Timing of BMP installation
5. Drainage computation (location)
6. Project contacts
7. Cross references to other sheets required by SWPPP
8. 24 hour MPCA emergency notification number(s)
9. SWPPP Certification form for consultant developed SWPPP Plans
10. Drawn by and Checked by: Initials and Engineer's signature
11. Water Resources Engineer's signature

Sample Plan

STORM WATER POLLUTION PREVENTION PLAN NARRATIVE AND CHECKLIST
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

LOCATION/DESCRIPTION:
SP 0000-00 IS LOCATED ON TH 04 MS EXIST LOOP TO FLOYD BLVD (SS 111) IN THE CITY OF CROOK RAPIDS IN ANoka COUNTY.

THE PLANNED SCOPE OF THE PROJECT INCLUDES:
- Grading & surfacing
- AEA improvements
- Stormwater
- Special & improved waters
- Areas of environmental sensitivity (AES) & infested waters
- Soil types
- Long term maintenance & operation

PROJECT PERSONNEL & TRAINING:
The site personnel are prepared to determine if personnel that are certified in the design of construction SWPPPs, copies of the certifications are on file with MNDOT and are available upon request.

A certified erosion control supervisor in good standing is knowledgeable and experienced in the application of erosion prevention and sediment control best management practices. The erosion control supervisor will work with the project engineer to oversee the implementation of the SWPPP and the installation, inspection, and maintenance of erosion control measures prior to, during, and after construction, and to ensure that the contractor has been properly trained and is being properly supervised. The erosion control supervisor is the contact person, and they are responsible for the ongoing maintenance and operation of the permanent erosion control system. As a Certified SWPPP, they are responsible for maintaining a complete set of plans and specifications for the erosion control system.

SPECIAL & IMPAIRED WATERS:
There are no special or impaired waters located within one mile of the project limits and receive runoff from the project site.

AREAS OF ENVIRONMENTAL SENSITIVITY (AES) & INFESTED WATERS:
There are no special or impaired waters located within one mile of the project limits and receive runoff from the project site.

SOIL TYPES:
Soil types typically found on this project are sand, sand loam, and long term maintenance & operation. The project engineer is responsible for the long term maintenance and operation of the permanent stormwater system. See MNDOT SWPPP for information regarding ongoing maintenance.

PROJECT CONTRACTS:
The project engineer is responsible for ensuring that the project is performed in accordance with the plans and specifications. They are responsible for overseeing the implementation of erosion prevention and sediment control measures, including the installation, inspection, and maintenance of the erosion control system. They are also responsible for overseeing the implementation of stormwater management plans and the installation, inspection, and maintenance of stormwater systems.

SITE INSPECTION & MAINTENANCE:
Inspection and maintenance of the project are performed by the project engineer, the erosion control supervisor, and other project personnel. The project engineer is responsible for ensuring that the project is performed in accordance with the plans and specifications. They are responsible for overseeing the implementation of erosion prevention and sediment control measures, including the installation, inspection, and maintenance of the erosion control system. They are also responsible for overseeing the implementation of stormwater management plans and the installation, inspection, and maintenance of stormwater systems.

THE PROJECT IS NOT LOCATED IN A DRINKING WATER SUPPLY MANAGEMENT AREA (DWSMA).
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (CONTINUED)

STABILIZATION TIME FRAMES

<table>
<thead>
<tr>
<th>AREA</th>
<th>TIME FRAME</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAST 200 LINEAL FEET OF DRAINAGE DITCH OR SWALE</td>
<td>1, 2, 3</td>
<td>Property Edge</td>
</tr>
<tr>
<td>REQUIRED TIME OF CONNECTION TO SURFACE WATER</td>
<td>2, 3</td>
<td>Provided by DEP</td>
</tr>
<tr>
<td>PERPENDICULAR TO DRAINAGE DITCH OR SWALE</td>
<td>240 HOURS OF CONSTRUCTION</td>
<td>Provided by DEP</td>
</tr>
<tr>
<td>FIRE AND SUMP OUTLETS</td>
<td>4 HOURS</td>
<td></td>
</tr>
<tr>
<td>EXPOSED SOILS AND STOPOFFS</td>
<td>48 HOURS</td>
<td></td>
</tr>
<tr>
<td>WITHIN 200 FEET OF A PUBLIC WATER</td>
<td>24 HOURS</td>
<td></td>
</tr>
</tbody>
</table>

1. INITIATE STABILIZATION IMMEDIATELY WHEN CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CAUSED EXPOSURE TO ANY PORTION OF THE SITE IN SOIL CONSTRUCTION OR DRAINAGE DITCH OR SWALE ARES. THIS EXPOSURE MAY OCCUR MORE THAN ONCE DURING THE COURSE OF THE PROJECT. TEMPORARY SOIL STOPOFFS WITHOUT SIGNIFICANT CLAY ON SLIS AND STOPOFFS ON CONSTRUCTED ROAD BASE ARE EXEMPT FROM THE STABILIZATION REQUIREMENT.

2. STABILIZED PERMIT OF DITCH (S), WHERE THE DITCH GTS MEA.

3. APPLICATION OF WOOL, HYDROGEL, TACKIFIER AND POLYACRYLAMIDE ARE NOT ACCEPTABLE STABILIZATION METHODS IN THESE AREAS.

4. STABILIZE ALL AREAS OF THE SITE PRIOR TO THE ONSET OF WINTER. ANY WORK STILL BEING PERFORMED WILL BE SNOW MULCHING, SEEDED, AND PLANTS IN THE TIME FRAMES FOR THE INLET PROTECTION DEVICES."
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (CONTINUED)

WATER RESOURCES NOTES

 These notes along with the STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE are intended to give information on critical drainage features, natural resources, and activities that may impact drainage and natural resources.

1. The size and elevation of culverts, storm sewer pipes, catch basins, ponds, infiltration/filtration basins, permeable pavement blocks and overflows have been specifically designed to conform to MnDOT standards, Minnesota Pollution Control Agency (MPCA) and Water Resources District permit requirements. The design computations are on file with MnDOT-Water Resources. Changing these items or the direction of flow from what is shown on the plans may cause problems off the project and could make the project out of compliance with approved drainage permits, any changes to the size, elevation or direction of flow of the drainage system must be approved by the Metro Water Resources Designer.

2. Subsoil all disturbed green spaces except as listed in 2574.3A.2.

3. Perform post installation water testing of all plastic pipe.

4. Any subsurface drainage tiles damaged during construction shall be repaired, replaced or rerouted, and connected to the existing tile or drainage system to ensure that existing upslope drainage is perpetuated. This should be done to the approval and satisfaction of the Engineer.

5. The following water related permits apply to this project:

   AGENCY
   MINNESOTA POLLUTION CONTROL AGENCY (MPCA)
   MNDOT DISTRICT
   DEPARTMENT OF NATURAL RESOURCES (DNR)
   CITY CORPS OF ENGINEERS

   TYPE OF PERMIT
   MNDOT CONSTRUCTION PERMIT
   WATERBODIES
   INFILTRATION AREAS
   INFILTRATION AREAS
   INFILTRATION AREAS
   INFILTRATION AREAS

   STATE PROJ. NO.
   0000-00

   REVISE DATES
   APRIL 1 - JUNE 30
   MARCH 15 - JUNE 15
   SEPTEMBER 1 - APRIL 1

WATERBODY EXCLUSION DATES

POND CONSTRUCTION NOTES

1. Do not stockpile materials or park equipment or vehicles in a constructed pond.

2. Wet ponds may be used as temporary sediment traps or temporary sediment basins. Clean out all permanent stormwater basins after all upgradient land disturbance activity is completed regardless of whether used as temporary sediment basins or temporary sediment traps.

3. The contractor shall immediately begin to fill the pond bottom and pond corners with clean fill. If disturbed, pond bottom and pond corners must be restored to pre-existing conditions within 24 hours. Any ruts or damaged turf that could create sediment discharge to pond bottoms must be repaired within 24 hours.

INfiltration construction notes

1. Do not stockpile materials or park equipment or vehicles in a proposed or constructed infiltration area, except off or otherwise mark off infiltration areas to prevent heavy construction vehicles and equipment from driving through.

2. Do not fully excavate infiltration basins until all upgradient land disturbance activity has been completed and the pond area has been stabilized, provide rigorous erosion prevention and sediment control BMP before installing maintenance of area. If the pond area must be completed prior to cessation of construction activities.

3. Install sediment control BMPs at the toe of the adjacent slope immediately after placement of amended topsoil.

4. Submit a site management plan to the engineer for the construction of infiltration areas.

5. Stabilize side slopes prior to placing any amended topsoil in the bottom of the infiltration area.

6. Do not drain turbine or sediment laden water to the pond bottom.

7. Use only low impact tracked vehicles within infiltration areas.

8. The contractor shall not drive any equipment on pond bottoms or pond corners, except for grading. If disturbed, pond bottoms shall be restored to pre-existing conditions prior to commencing work.

9.Excavate any sediment that washes into infiltration areas, remove and replace any amended topsoil that has sediment deposits visible at the surface.

10. Report any signs of high water table or compaction of the in place soils to the engineer.

Filtration construction notes

1. Do not stockpile materials or park equipment or vehicles in a constructed filtration area, except off or otherwise mark off infiltration areas to prevent heavy construction vehicles and equipment from driving through.

2. Do not place filter material in filtration basins until all upgradient land disturbance activity has been completed and the pond area has been stabilized, provide rigorous erosion prevention and sediment control BMPs if the pond area must be completed prior to cessation of construction activities.

3. Install sediment control BMPs at the toe of the adjacent slope immediately after placement of amended topsoil.

4. Submit a site management plan to the engineer for the construction of filtration areas.

5. Do not drain turbine or sediment laden water to the filtration area after the filter material has been installed.

6. The contractor may not drive any equipment on pond bottoms or pond corners, except for grading. If disturbed, pond bottoms shall be restored to pre-existing conditions prior to commencing work.

7. Excavate any sediment that washes into filtration areas, remove and replace any amended topsoil that has sediment deposits visible at the surface.

8. Report any signs of high water table or compaction of the in place soils to the engineer.

LANDSCAPE NOTES

1. All drainage ditches shall be placed, as needed, to trap sediment on the lower edge of beds or trees. Filter loss will be left to photo degrade.

2. Topping beds or tree holes must be planted and mulched with wood chip within 24 hours of topping operation or planting operations can be completed.

3. Any pond corners opened due to topping for shrub beds or tree holes must be planted and mulched with wood chip within 24 hours or stram mulched until planting operations can be completed.

4. Study the plans closely and note if the above requirements conflict with the plans. Notify the design engineer of these conflicts.

REVIEW all permits for any special conditions that will affect construction of the project.

Temporary damating activities may be required for roadway constuction and utility work. Therefore it is possible that a permit for the temporary appropriation of water of the state, non-irrigation from MNDNR will be required. It is the responsibility of the contractor to obtain and maintain these permits. Temporary damating activities, all temporary damating shall be discharged to an approved location for treatment and discharge to the receiving water, submit a site management plan to the engineer for approval prior to commencing work.

The following types of water bodies have work in water exclusions, no work in the water is allowed during the exclusion dates. See only permit for which waterbodies this applies to.
THIS PROJECT IS TRIBUTARY TO BOTH THE VERMILLION RIVER AND PINE CREEK