

Soil and Water Management Plan template

Introduction

Soil and Water Management Plans (SWMPs) are specific site plans or drawings that detail sediment and erosion control measures on building and construction sites. The SWMP shows the type, location, design, installation and maintenance schedule for all these measures and should be considered as the blueprint for controlling all anticipated erosion and for preventing sediment from leaving a site.

Soil and water management on building and construction sites – Tasmanian Guidelines

The Tasmanian Guidelines include 19 Fact Sheets which outline current best practice soil and water management for building and construction sites. The guidelines include a suite of sediment and erosion control measures which cover all aspects of soil and water management through the building and construction phase; and include tips for design, sighting, installation and maintenance of such measures. Contact your local Council, or visit www.nrmnorth.org.au for a copy of the guidelines.

Developing a SWMP

The SWMP must be approved by Council prior to the commencement of works. A SWMP can easily be developed by overlaying information on a copy of the engineering site drawings. The SWMP must detail the site development and all the systems intended to minimise erosion and trap sediment. The table below outlines the acceptable standard of best practice SWMPs. Additional details may be required depending on the specific requirements of the site, scale of the development and level of ground disturbance.

GENERAL INFORMATION	
Item	Detail required
Date and author	Name of person who developed SWMP, and date published.
North point and scale	Description of the site size and orientation.
Site contours and slope	Initial and final contours, approximate grades of slope and directions of fall.
Subdivision layout	<ul style="list-style-type: none"> Property boundaries and construction details. The limit of clearing, grading and filling.
Soil description	<ul style="list-style-type: none"> General information about soil type (i.e. clay, loam, sand) present on site.
Topographic features	General information about features on or near the site. <ul style="list-style-type: none"> The location and types of all existing natural vegetation. Details of the critical natural areas such as drainage lines (i.e. creeks, rivers), cliffs, nature reserves, wetlands and unstable ground.
Stormwater infrastructure	All existing and proposed stormwater infrastructure.
Staging of works	Start and completion dates for each stage of the subdivision.



SEDIMENT AND EROSION CONTROLS

Item	Detail required	Relevant Fact Sheets
Stabilised site access	Location of stabilised access point including diversion hump, and installation details: <ul style="list-style-type: none"> • Date • Responsible person • Method/designs/drawings if appropriate 	<ul style="list-style-type: none"> • #12 <i>'Stabilised Site Access'</i>
Retained vegetation	Location of vegetation (trees, shrubs and grassed areas) to be retained on site throughout the entire construction phase.	<ul style="list-style-type: none"> • #5 <i>'Minimise Soil Disturbance'</i> • #6 <i>'Preserve vegetation'</i>
Temporary drainage control measures	Location of all proposed temporary drainage control measures and installation details: <ul style="list-style-type: none"> • Date • Responsible person • Method/designs/drawings if appropriate 	<ul style="list-style-type: none"> • #7 <i>'Divert Up-Slope Water'</i> • #10 <i>'Early Roof Drainage Connection'</i> • #11 <i>'Scour Protection – Stormwater Pipe Outfalls & Check Dams'</i>
Sediment control measures	Location of all proposed sediment control measures and installation details: <ul style="list-style-type: none"> • Date • Responsible person • Method/designs/drawings if appropriate 	<ul style="list-style-type: none"> • #12 <i>'Stabilised Site Access'</i> • #13 <i>'Wheel Wash'</i> • #14 <i>'Sediment Fences & Fibre Rolls'</i> • #16 <i>'Manage Concrete, Brick & Tile Cutting'</i> • #17 <i>'Sediment Basins'</i>
Stockpile protection	Location of soil, sand or other material stockpiles; plus location of suitable erosion control measures and installation details: <ul style="list-style-type: none"> • Date • Responsible person • Method/designs/drawings if appropriate 	<ul style="list-style-type: none"> • #9 <i>'Protect Service Trenches and Stockpiles'</i>
Erosion control measures	Location of all proposed erosion control measures and installation details: <ul style="list-style-type: none"> • Date • Responsible person • Method/designs/drawings if appropriate 	<ul style="list-style-type: none"> • #4 <i>'Dispersive Soils – High Risk of Tunnel Erosion'</i> • #5 <i>'Minimise Soil Disturbance'</i> • #6 <i>'Preserve Vegetation'</i> • #8 <i>'Erosion Control Mats and Blankets'</i> • #9 <i>'Protect Service Trenches and Stockpiles'</i> • #18 <i>'Dust Control'</i> • #19 <i>'Site Revegetation'</i>
Stormwater pit protection	Location of measures to protect stormwater pits and installation details: <ul style="list-style-type: none"> • Date • Responsible person • Method/designs/drawings if appropriate 	<ul style="list-style-type: none"> • #15 <i>'Protection of Stormwater Pits'</i>
Managing sediment generating activities	Location within the site where sediment generating activities can be managed; plus location and of suitable sediment control measures and installation details: <ul style="list-style-type: none"> • Date • Responsible person • Method/designs/drawings if appropriate 	<ul style="list-style-type: none"> • #16 <i>'Manage Concrete, Brick & Tile Cutting'</i>



MAINTENANCE

Item	Detail required
Maintenance schedule	<p>Provide a brief maintenance schedule for the sediment and erosion controls. This can be a note on the SWMP.</p> <ul style="list-style-type: none"> • Include a statement of who is responsible for establishing and maintaining all sediment and erosion control measures (i.e. principle contractor or site manager). • Include time frames for maintenance checks (i.e. weekly, and after major rainfall events). • Outline proposed activities (i.e. checks for damage and the need for de-silting, repair or replacement). • Include a monitoring and maintenance program for site revegetation.