

## SMALL DEVELOPMENT STORMWATER MANAGEMENT PLAN APPLICATION

### Small Project Stormwater Management Submission

#### Calculation of Impervious Area

In accordance with the Municipal Stormwater Management Ordinance, small developments are eligible for submission of a simplified stormwater management plan. Small developments propose an increase of impervious area of greater than 400 square feet but less than 5,000 square feet of impervious area. The calculations of proposed impervious area reported herein shall cumulatively include all new impervious area constructed within the last five years. An impervious surface is a surface that prevents the infiltration of water into the ground. Impervious surfaces (or areas) shall include, but not be limited to: roofs, additional indoor living spaces, patios, garages, storage sheds, porches, decks and similar structures, and any new driveways or sidewalks.

**Table 1: Calculation of Impervious Surfaces**

Surface Type		Length (ft)	X	Width (ft)	=	Proposed Impervious Area (sq ft)
Building	Home		X		=	
	Addition		X		=	
	Garage		X		=	
	Porch/deck		X		=	
			X		=	
Driveway			X		=	
			X		=	
			X		=	
Parking Areas			X		=	
			X		=	
			X		=	
Patio and Sidewalks			X		=	
			X		=	
			X		=	
			X		=	
			X		=	
Other			X		=	
			X		=	
			X		=	
<b>Total Impervious Surface Area to Managed</b>						

**If the Total Impervious Surface Area is less than 5,000 Square Feet, complete the remainder of the Application.**

**If the Total Impervious Surface Area EXCEEDS 5,000 Square Feet, a complete stormwater management plan, prepared by a registered professional engineer must be submitted.**

### **Small Project SWM Plan Worksheet**

Based upon the information you have provided a *Stormwater Plan IS Required* for this development activity and the project is eligible for review as a small development. The Municipal Stormwater Management Ordinance allows for submission of a simplified stormwater management plan for small developments.

Regulated activities shall be conducted only after the Municipality approves a stormwater management plan. The Stormwater Management Ordinance will assist you in preparing the necessary information and plans for the Municipality to review and approve. **This document will constitute an approved plan if all of the relevant details are to be installed in their entirety AND no part of the stormwater system adversely affects any other property, nor adversely affects any septic systems or drinking water wells on this, or any other, parcel.** If an alternative system is to be used a plan will need to be submitted to the Municipality for approval. A design by a qualified professional may be required for more complex sites.

**PLEASE INITIAL BELOW TO INDICATE THE STORMWATER MANAGEMENT PLAN FOR THIS SITE**

The relevant details from Municipal Stormwater Management Ordinance will be installed in their entirety AND the system will be located as not to adversely affect other property, nor any septic systems or drinking water wells on this, or any other, parcel. The BMP or BMPs proposed be implemented are as follows:

<b>Table 2: Runoff Volume Calculation</b>						
<b>Impervious Surface (sq ft) – From Table 1</b>	<b>X</b>	<b>Runoff Depth (in)</b>	<b>÷</b>	<b>12 in/ft</b>	<b>=</b>	<b>Total Runoff Volume to be Managed (cu ft)</b>
	x	2	÷	12	=	

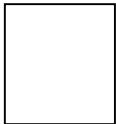
<b>Table 3: Structural BMPs</b>									
<b>BMP Type</b>	<b>Length (ft)</b>	<b>X</b>	<b>Width (ft)</b>	<b>X</b>	<b>Depth (ft)</b>	<b>X</b>	<b>Void Space</b>	<b>=</b>	<b>Volume Managed (cu ft)</b>
<b>Infiltration Trench</b>		x		x		x	<b>0.40</b>	=	
<b>Rain Garden</b>		x		x	<b>0.5</b>	x	<b>1.0</b>	=	
<b>Dry Well</b>		x		x		x	<b>0.40</b>	=	
<b>Total Volume Managed – Structural BMPs</b>									

<b>Table 4: Non-Structural BMP - New Tree Planting</b>					
<b>Tree Type</b>	<b>Number of Trees</b>	<b>X</b>	<b>Volume Credit (cu ft)</b>	<b>=</b>	<b>Volume Managed (cu ft)</b>
<b>Deciduous Tree</b>		x	<b>4</b>	=	
<b>Evergreen Tree</b>		x	<b>6</b>	=	
<b>Total Volume Managed- Tree Planting</b>					

<b>Table 5: Non-Structural BMP - Preservation of Trees</b>						
<b>Distance from Impervious Area</b>	<b>Tree Canopy Area (sf)</b>	<b>X</b>	<b>Rainfall Depth Managed (in)</b>	<b>/ 12 in/ft</b>	<b>=</b>	<b>Volume Managed (cu ft)</b>
<b>Within 20 Feet</b>		x	<b>1</b>	<b>/ 12</b>	=	
<b>Within 20 Feet</b>		x	<b>1</b>	<b>/ 12</b>	=	
<b>Within 20 Feet</b>		x	<b>1</b>	<b>/ 12</b>	=	
<b>Within 20 Feet</b>		x	<b>1</b>	<b>/ 12</b>	=	
<b>Within 20 Feet</b>		x	<b>1</b>	<b>/ 12</b>	=	
<b>Within 100 Feet</b>		x	<b>0.5</b>	<b>/ 12</b>	=	
<b>Within 100 Feet</b>		x	<b>0.5</b>	<b>/ 12</b>	=	
<b>Within 100 Feet</b>		x	<b>0.5</b>	<b>/ 12</b>	=	
<b>Within 100 Feet</b>		x	<b>0.5</b>	<b>/ 12</b>	=	
<b>Within 100 Feet</b>		x	<b>0.5</b>	<b>/ 12</b>	=	
<b>Total Volume Managed- Tree Preservation</b>						

<b>Table 6: Non-Structural BMP - Minimize Soil Compaction and Planting</b>						
<b>Planting Type</b>	<b>Surface Area (sf)</b>	<b>X</b>	<b>Rainfall Depth Managed (in)</b>	<b>/ 12 in/ft</b>	<b>=</b>	<b>Volume Managed (cu ft)</b>
<b>Lawn</b>		x	<b>0.25</b>	<b>/ 12</b>	=	
<b>Meadow</b>		x	<b>0.33</b>	<b>/ 12</b>	=	
<b>Total Volume Managed- Minimize Compaction</b>						

<b>Table 7: Summation of Runoff Volume Managed</b>	
<b>BMP Type</b>	<b>Managed Volume</b>
<b>Structural BMPs (Table 3)</b>	
<b>Tree Planting (Table 4)</b>	
<b>Tree Preservation (Table 5)</b>	
<b>Minimize Soil Compaction/Planting (Table 6)</b>	
<b>Total Volume Managed (cu ft) - Must be Greater than that Calculated in Table 2</b>	

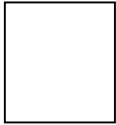


In lieu of providing the above, an alternative and/or professional design is attached for approval AND the system will be located as not to adversely affect other property, any septic systems or drinking water wells on this, or any other, parcel.



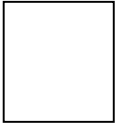
**Site Sketch Plan showing:**

- Property Lines with dimensions
- Proposed buildings with dimensions
- Proposed impervious surfaces with dimensions
- Proposed sanitary sewer lateral or septic system, as applicable
- Proposed water service or well site, as applicable
- Proposed stormwater management system(s)
- Erosion and Sedimentation Controls to be installed and maintained during construction



**Operations and Maintenance Agreement**

- Execute and record a Stormwater Maintenance and Agreement



**Application Review Fee**

- The application review fee has been made to the Municipality. The review fee shall be as listed in the current Municipal Fee Schedule.

**Condition of approval** - The stormwater management plan must be fully implemented prior to a request for final inspection of the building or zoning permit.

**Acknowledgement** – By executing below, the Owner acknowledges the following:

- I declare I am the owner of the property.
- The information provided is accurate.
- I further acknowledge that municipal representatives are granted access to the above described property for review and inspection as may be required.

**Owner** \_\_\_\_\_

**Date** \_\_\_\_\_