



**Biglerville Borough Council**  
**33 Musselman Avenue**  
**Biglerville, PA 17307**  
**PH: 717-677-9488 / FAX: 717-677-4027**  
**Email: [office@biglerville.us](mailto:office@biglerville.us) / [www.biglerville.us](http://www.biglerville.us)**

**STORMWATER MANAGEMENT PERMIT**  
**Simplified Design Approach**  
**Worksheet A**

Property Owner's Name: \_\_\_\_\_

Applicant Name: \_\_\_\_\_

Applicant/ Owner Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Address of Property: \_\_\_\_\_

Parcel Number: \_\_\_\_\_ Parcel Size (approx.): \_\_\_\_\_

**A Sketch Plan must be included and show the following:**

Total existing impervious area on the property: \_\_\_\_\_

New impervious area proposed: \_\_\_\_\_

Total impervious area on the property after project completion: \_\_\_\_\_

Are there any known existing drainage problems or the potential for the proposed project to create drainage problems?  
(if yes, please explain) ☐ Yes ☐ No

**Acknowledgement-** I declare that I am the property owner, or representative of the owner, and that the information provided is accurate to the best of my knowledge. I understand that stormwater may not adversely affect adjacent properties or be directed onto another property without written permission. I also understand that false information may result in a stop work or revocation of permits. Municipal representatives are also granted access to the property for review and/or inspection of this project if necessary.

Applicant Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Notary: \_\_\_\_\_ Date: \_\_\_\_\_

My commission Expires: \_\_\_\_\_

**Fee of \$50.00 which is required at time of application submittal – to be paid to Biglerville Borough.  
Payment must be check or money order and received prior to official review – *thank you***

**To Be Completed by Authorized Municipal Official**

Type of Stormwater Management Required:

Exempt from Stormwater Management Plan Preparation \_\_\_\_\_  
(Worksheet A and Sketch Plan)

Minor Stormwater Management Site Plan Preparation \_\_\_\_\_  
(Complete Worksheet b to determine necessary BMP's)

Formal Stormwater Management Plan Preparation \_\_\_\_\_  
(Consult a professional)

Determined By: \_\_\_\_\_ Date: \_\_\_\_\_



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## STORMWATER MANAGEMENT PERMIT Simplified Design Approach Worksheet B

**Step 1:** Determine the amount of impervious area created by the proposed projects. This includes any new surface area that inhibits the infiltration of stormwater into the ground. New stone and gravel area considered impervious. Existing impervious areas are not included in this calculation.

**Table #1**

Surface	Length	×	Width =	Total Impervious Area (SF)
Buildings		×		
Buildings		×		
Driveways		×		
Parking Areas		×		
Patio/ Walkways		×		
Decks		×		
Others		×		
<b>Total Proposed Impervious Area =</b>				

**Step 2:** Determine the Disconnect Impervious Area (DIA). All or parts of proposed impervious surfaces may qualify as Disconnect Impervious Area if runoff is directed to the pervious area that allows for infiltration, filtration and increased time of concentration. The volume of stormwater that needs to be managed could be reduced through DIA. Prepare a Minor Stormwater Management Site Plan to determine DIA.

Determine Status of DIA:

1. Determine contributing area of the roof/ driveway to each disconnected discharge. If it's 500 ft<sup>2</sup> or less (for a roof) or 1,000 ft<sup>2</sup> or less (for a driveway), continue to "B". If it's greater than these amounts, the area does not qualify as a DIA.
2. Determine the length of down slope pervious flow path available for each disconnected discharge
3. Determine the % slope of the pervious flow path, % slope= (rise/run) x 100. Must be 5% or less.
4. See the table on the next page to determine the percentage of the area that can be treated as disconnected. If the available length of the flow path is equal to or greater than 75 ft. the discharge qualifies as entirely disconnected.



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PAGE 3

<b>Partial Disconnected</b>		
<b>Length of Pervious Flow Path * (ft) Lots 10,000 ft2 and under</b>	<b>Length of Pervious Flow Path * (ft) Lots &gt; 10,000 ft2</b>	<b>DIA Credit Factor</b>
0 – 7.9	0 – 14	1.0
8 – 15.9	15 – 29	0.8
16 – 22.9	30 – 44	0.6
12 – 29.9	45 – 59	0.4
30 – 34.9	60 – 74	0.2
35 or more	75 or more	0
*Pervious flow path must be at least 15 feet from any impervious surface and cannot include impervious surfaces		

Using Step 2 calculations calculated from the minor stormwater site plan, complete the table below. This will determine the impervious area that may be excluded from the area that needs to be managed through stormwater management BMP's. If the total impervious area to be managed is zero, the area can be considered entirely disconnected and further calculations are not needed.

**Table #2**

<b>Surface</b>	<b>Area (SF)</b>	<b>X</b>	<b>DIA Credit =</b>	<b>Impervious Area to be Managed (SF)</b>
Buildings		X		
Buildings		X		
Buildings		X		
Buildings		X		
Buildings		X		
Driveways		X		
Driveways		X		
Parking Areas		X		
Patio/ Walkways		X		
Decks		X		
Others		X		
<b>Total Proposed Impervious Surface Area to be Managed (SF) =</b>				

\*If the total impervious surface area to be managed is greater than zero, continue to Step 3.



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PAGE 4

**Step 3:** Calculate the volume of stormwater runoff created by proposed impervious surfaces.

<b>Impervious Area (SF) to be Managed (Sum from table 2)</b>	<b>×</b>	<b>2.8in/12in = 0.233 (from 24 hr. rainfall)</b>	<b>=</b>	<b>Volume of Stormwater to be Managed (CF)</b>
	<b>×</b>	0.233	<b>=</b>	

**Step 4:** Select BMP's and size according to the volume of stormwater that needs to be managed in Step 3.

**Table #3 – BMP Sizing Table\***

<b>BMP Type</b>	<b>Necessary Volume** (from Step 3 above)</b>	<b>Length</b>	<b>Width</b>	<b>Depth</b>	<b>Void Ratio</b>	<b>Volume ***</b>
Infiltration Bed or Trench					0.4	
Infiltration Berm					1	
Rain Garden					0.4 in stone 1.0 above ground	
Rain Barrel or other Usable Storage		Use known volume of rain barrel, etc. 1 cubic foot is equal to 7.48 gallons			1	
Other						

\* Chart should only be used when a formal SWM Site Plan is not required

\*\* Should not include areas that were proven to be 100% disconnected

\*\*\* Volume = Length x Width x Depth x Void Ratio