CERTIFICATION OF STORMWATER RUN-OFF PLAN

The owner(s) of the property identified below hereby makes an application to the municipality for certification of their proposed stormwater run-off plan.

Property Owner's Name:					
Mailing Address:					
City, State, Zip:					
Telephone Number:	Email ad	dress:			
Township:	Parcel ID	_ Parcel ID #:			
Property Location (road name):					
Type of Structure: Single-Family Residence ☐		Single-Wide MFG Home□ Industrial□			
Double-Wide MFG Home□ Public□	Church/School□	other□			
Name of Installation Contractor:	·				
Telephone Number of Contractor:					
Anticipated Amount of Impervious Surf	face:	SQ. FT.			
Anticipated Total Amount of Earth Dist	:urbance:	SQ. FT.			
Earth disturbance activity—A construction or other human activity which disturbs the surface of the land, including land clearing and grubbing, grading, excavations, embankments, land development, agricultural plowing or tilling, operation of animal heavy use areas, timber harvesting activities, road maintenance activities, oil and gas activities, well drilling, mineral extraction, and the moving, depositing, stockpiling, or storing of soil, rock or earth materials. For additional information regarding Earth Disturbance Activity, Please contact Warren County Conservation District (814-726-1441).					
☐ Less than 5000 sq ft total Earth Disturbance — must implement Erosion and Sediment (E&S) Control Best Management Practices (BMPS) on site.					
Between 5000 sq ft and 0.99 ac of total Earth Disturbance – must have a written E&S plan on site and implement the E&S BMPS on site (special circumstances may require this be reviewed by the Warren County Conservation District, contact the Conservation District for additional information).					
☐ Greater that one acre of Conservation District.	total Earth Disturbance — Permits	s are required, contact the Warren County			
The stormwater plan submitted by the as meeting all the requirements of the	MUNICIPAL USE O e above named owner of the pr e municipal stormwater run-off	roperty listed has been reviewed and certified			
Printed Name of Municipal Representa	ative Signature	Date of Approval			

Warren County Small Project Stormwater Management Application

Per **Glade Township's** Act 167 Stormwater Management Ordinance, a stormwater management plan is required whenever more than 2,500 square feet of impervious surface is proposed. Impervious surfaces are areas that prevent the infiltration of water into the ground and shall include, but not be limited to, roofs, patios, garages, storage sheds and similar structures, and any new streets or sidewalks.

Surface Type	Length (ft)	x	Width (ft)	=	Proposed Impervious Area
Building		Х		=	
(leading to a downspout)		Х			
acvinapoor		X			11.000
		X		==	
Driveway		X		=	
		X		=	
		Х		=	
Parking Areas		X		<u>=</u>	
		X		=	
		Х		=	
Patios/Walks		X		=	41
		X		=	
		x		=	- Jack
		Х		=	
Other		X		=	
		X		=	
		x		=	

0-1,000 s.f – SWM Run-off Plan only – No fee required
1,000 to 2,500 s.f. – SWM Run-off Plan & Small Project SWM Application (Pages 1 & 2) FEE \$10.00
2,500 to 5,000 s.f. – Applicant must complete entire Application FEE \$20.00
Larger than 5,000 S.F. , complete the remainder of the Application. FEE Per Terms of Stormwater Manangement Ordinance #205

Property Owner Acknowledges that submission of inaccurate information may result in a stop work order or permit revocation. Acknowledgment of such is by signature below. I declare that I am the owner or owner's, legal representative. I further acknowledge that the information provided is accurate and employees of Glade Township are granted access to the above-described property for review and inspection as may be required.

Owner	Date:

CREDITS

Credit 1: DISCONNECTION OF IMPERVIOUS AREA

When runoff from impervious areas is directed to a pervious area that allows for infiltration, filtration, and increased time of concentration, all or parts of the impervious areas may qualify as Disconnected Impervious Area (DIA). Using the criteria below, determine the portion of the impervious area that can be excluded from the calculation of total impervious area.

Criteria: An impervious area is considered to be completely or partially disconnected if it meets the requirements listed below

- rooftop area draining to a downspout is ≤500 sf
- paved area draining to a discharge is ≤1,000 sf
- flow path of paved impervious area is not more than 75'
- soil at discharge is not designated as hydrologic soil group "D"
- flow path at discharge area has a positive slope of ≤5%
- gravel strip or other spreading device is required at paved discharges.

Length of Pervious Flow Path from discharge point * (ft)	DIA Credit Factor
0-14	1.0
15 – 29	0.8
30 – 44	0.6
45 – 59	0.4
60 – 74	0.2
75 or more	0

^{*} Flow path cannot include impervious surfaces and must be at least 15 feet from any impervious surfaces.

	Calculate D	IA Cr	edit & Red	quire	d Capture Volum	e			
Surface Type	Proposed Impervious Area (from previous sheet)	x	DIA Credit Factor	-	Impervious Area to be managed	-			Required Capture Volume (ft³)
Building		Х		=		÷	6	=	
(area per		Х		=		<u> </u>	6		
downspout)		Х		=		+	6		
		Х		=		÷	6	=	
Driveway		Х		=		÷	6	=	
		Х	****	=		÷	6	=	
		Х	Î	=		÷	6	=	
Parking Areas		Х		=		÷	6	=	VII./
		Х		=		+	6	=	
		Х		=		÷	6	=	
Patios/Walks		Х		=		+	6	=	
		Х		=		÷	6	=	
		Х		=		÷	6	=	
		Х		=		÷	6	=	
Other		Х		=		÷	6	=	
		Х		=		÷	6	=	
		Х		=		÷	6	=	
			1		Total Req'd Ca	pture	e Vol	ume	

Credit 2: TREE PLANTING

Perhaps the best BMP is a tree as they intercept rainfall, increase evapotranspiration and increase time of concentration. A portion of the required capture volume can be reduced provided the criteria are met.

CREDITS

Deciduous Trees	Evergreen Trees			
6 ft³ per tree planted	10 ft³ per tree planted			

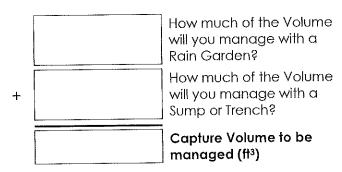
Criteria

To receive credit for planting trees, the following must be met:

- Trees must be native species (see below), minimum 1" caliper tree and 3 feet tall shrub (min).
- Trees shall be adequately protected during construction.
- Trees shall be maintained until redevelopment occurs.
- No more than 25% of the required capture volume can be mitigated through the use of trees.
- Dead trees shall be replaced within 12 months.
- Non-native species are not applicable.

	Req'd Capture Volume (ft³)
-	Tree Planting Credit (ft³)
	Capture Volume to be managed (ft³)

Sizing of BMP



Enter the volumes into the Small Project SWM Plan Worksheet on the next sheet.

Native Species Trees (Common Name)

- Blackgum
- Cucumber magnolia
- Hophornbeam
- Maple, (sugar, red or silver)
- Pine, (pitch or eastern white)
- Ironwood
- Hickory, sweet pignut or shag-bark
- Sycamore, American
- Cotton-wood, eastern
- Aspen, big-tooth or quaking
- Cherry, black

- Oak, (white, swamp white, scarlet, pin, red, black)
- Dogwood (silky or red osier)
- Tuliptree
- Willow, black
- Chokeberry (red or black)
- Basswood, American
- Serviceberry, (downy or shadbush)
- Elderberry
- Witch hazel
- Mountain laurel

Small Project SWM Plan Worksheet

Based upon the information you have provided a **Stormwater Plan IS Required** for this development activity. The Stormwater Management Ordinance developed through the Warren County Act 167 Stormwater Management Plan regulates compliance requirements for Stormwater Management in this jurisdiction. A complete copy of the *Plan* can be found on the Warren County Planning & Zoning office.

Regulated activities shall be conducted only after Glade Township approves a stormwater management plan. The Warren County Act 167 Stormwater Management Plan will assist you in preparing the necessary information and plans for Glade Township 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 affect 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 Glade Township for approval. A design by a qualified professional may be required for more complex sites.

•	Hor more complex siles.						
PLEASE	INITIAL BELOW TO INDI	CATE THE STORMWATER MANA	GE	MENT PLAN FO	R THIS SITE		
	Minimum Control #1 Er	osion & Sediment Pollution Contr	ol (E	Elements 1-10)			
	Minimum Control #2: Source Control of Pollution						
	Minimum Control #3: P	reservation of Natural Drainage S	Syste	ems and Outtal	ls		
	entirety AND the system or drinking water wells	m Warren County Act 167 Stormw n will be located as not to adverse on this, or any other, parcel.	ely c	affect other prop	t Plan will be installed in their berty, nor any septic systems		
	To meet this requireme	ent, the following will be installed	anc	l maintained:			
	Capture Volume to be	managed (ff³)		Conversion	Surface Area of BMPs (ff²)		
<u> </u>		By Rain Garden 6" ponding; 2' soil depth	х	1.20			
		Dry Well or Infiltration Trench 2½' aggregate depth	х	1.25			
		Total		Total			
	In lieu of meeting the the system will be loc water wells on this, or o	above, an alternative and/or pro ated as not to adversely affect any other, parcel.	ofes oth	sional design is er property, an	attached for approval AND by septic systems or drinking		
	Site Sketch Plan showi Property lines with di Proposed buildings v Proposed impervious	mensions Provith dimensions Pro	pos	ed septic system, ed well site, if ap ed stormwater m			
	Operation and Mainte	nance Agreement					
	on on approval - The sto ion of the building or zor	rmwater management plan must ning permit.	be	fully implement	ted prior to a request for final		
		ng below, the Owner acknowled	ges	the following:			
	declare that I am the o						
m Ţ =	The information provided further acknowledge	1 is accurate. that municipal representatives (are	granted acce	ss to the above described		

Date:

Owner

property for review and inspection as may be required.