For Municipal Use and Record of Project Area	
Property Owner's Name	
Address of Property	
Phone Number	Municipality
New Impervious Area Associated with this Pr	roject
Stormwater Project Type: Exempt	Minor Plan Project Requires Formal SWM Plan
Total New Impervious Area Since Adoption of	of SWM Ordinance
information provided is accurate to the best of affect adjacent properties or be directed onto a	operty owner, or representative of the owner, and that the f my knowledge. I understand that stormwater may not adversely another property without written permission. I also understand that der or revocation of permits. Municipal representatives are also for inspection of this project if necessary.
Signature	Date

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

Calculate new impervious area by completing this table.

Surface	A CONTRACTOR OF THE STATE OF TH	×	Width (ft)	=	Impervious Area (ft²)	
Buildings						
		×		=		
Driveway						
		×		=		
Parking Areas						
		х		=		
Patios/ walkways		х		=		
		^				
Other		x		=		
	Total Proposed Impervious Surface Area					
(Sum of all impervious areas)						

- If the total new impervious surface area is **up to 1,000 ft**<sup>2</sup>, the project is exempt from the requirement to submit a plan for approval. Sign Acknowledgement and file this sheet with municipality.
- If total impervious surface area is 1,001 ft<sup>2</sup> to 10,000 ft<sup>2</sup>, complete minor stormwater site plan & Step 2.
  - If project area can be entirely disconnected, sign Acknowledgement and file worksheets with municipality.
  - If project is between 1,000 ft<sup>2</sup> and 5,000 ft<sup>2</sup> and requires BMPs, complete step 3.
  - If project area is 5,000 ft<sup>2</sup> 10,000 ft<sup>2</sup> and can't be disconnected, the project does not qualify for the Simplified Approach.

**Step 2:** Determine Disconnected Impervious Area (DIA). All or parts of proposed impervious surfaces may qualify as Disconnected Impervious Area if runoff is directed to a 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 site plan (see pg 4 for requirements).

#### Criteria

- Overland flow path from the discharge area or impervious area has a positive slope of 5% or less.
- Contributing area to each rooftop discharge (downspout) is 500 ft2 or less.
- Soils are not classified as hydrologic soil group "D".
- The receiving pervious area shall not include another person's property unless written permission has been obtained from the affected property owner.

### Paved Disconnection Criteria: Paved surfaces (driveways,

walkways, etc.) and gravel can be considered disconnected if it meets the criteria above and:

- Runoff does not flow over impervious area for more than 75 feet.
- The length of overland flow is greater than or equal to the contributing length.
- The slope of the contributing impervious areas is 5% or less.
- If discharge is concentrated at one or more discrete points, no more than 1,000 ft² may discharge to any one point. In addition, a gravel strip or other spreading device is required for concentrated discharges. Non-concentrated discharges along the entire edge of paved surface must include provisions for the establishment of vegetation along the paved edge and temporary stabilization of the area until the vegetation is established.
- If this criteria can be met, the DIA credit = 0

Using the calculations 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 BMPs. If total impervious area to be managed =0, the area can be considered entirely disconnected.

Surface	Proposed Impervious Area	X	DIA Credit	=	Impervious Area (ft²) to be Managed
Buildings (area to each downspout)					
		х		=	
Driveway		х		=	
Parking Areas		х		=	
Patios/ walkways		х		П	
Other		х		=	
Total P	ged as)				

If total surface area to be managed if greater than 0, continue to Step 3.

impervious surface

**Step 3:** Calculate the volume of stormwater runoff created by proposed impervious surfaces or see Simple BMP Sizing in Step 4.

Impervious Area (ft²) to be Managed (Sum of Step 2)	×	2.8 in/12 in = 0.233 (2.8 in is 2-year 24-hour rainfall amount)	=	Amount of Stormwater to be Managed (ft³)
	х	0.233	==	

Best Management Practices need to be used to manage the volume of stormwater created by the proposed impervious areas. The cubic feet of stormwater that need to be managed may also be further reduced by planting new trees. If the criteria below can be met, the amount of stormwater to be managed can be reduced per the following:

Deciduous Trees = 6 ft<sup>3</sup> per tree

Evergreen Trees = 10 ft<sup>3</sup> per tree

#### Criteria:

- Trees must be PA native species (See PA Stormwater BMP Manual for a list)
- Trees shall be a minimum 1" caliper tree and 3 feet tall shrub (min)
- Trees shall be adequately protected during construction
- No more than 25% of the required capture volume can be mitigated through the use of trees
- Dead trees shall be replaced by the property owner within 12 months

Amount of Stormwater to be Managed (ft³) (Sum of		Tree Planting Credit (ft³)		Amount of Stormwater to be
Step 3)				Managed (ft³)
	-		=	

**Step 4:** Select BMPs and size according to the volume of stormwater that needs to be managed. The Guide to Choosing Stormwater BMPs, included in the Simplified Approach, includes sizing calculations for specific techniques. *Simple BMP Sizing* - Sizing BMPs can also be simplified through the use of this chart. Take the sum of Step 2 and match it to the "Amount of New Impervious Area to be Managed" in the table below (rounding **up** to the next value if the number is between two values). Then look in the light grey box to determine the cubic footage of the BMP. For example, if a proposed 1,000 square foot impervious area must handle 240 cubic feet of stormwater in a bioretention system, a 13'x 13'x 1.5' rain garden or a 36'x 2'x 3.5' vegetated swale could be used. Add the location and size of proposed BMPs to the minor stormwater site plan.

BMP T	Tuna		Si	mple BIV	P Sizing	- Amoun	t New Im	pervious	Area to	be Mana	iged (sq	ft)	
	///= 	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000
Bioretention	Rain Garden, Vegetated Swale (simple)	60	120	180	240	360	480	600	720	840	960	1,080	1,200
Infiltration	Dry Well, Infiltration Trench	180	360	540	720	1,080	1,440	1,800	2,160	2,520	2,880	3,240	3,600

(Lycoming County Planning Department, 2010)

Bring the worksheets, plan, Owner Acknowledgement, and BMP Facilities and Maintenance Agreement (if applicable) to your municipality. If an area greater than 5,000 square feet is disturbed, an erosion and sedimentation (E & S) control plan must be prepared. The municipality may require that the E&S plan be submitted to, reviewed, and approved by the Adams County Conservation District.

The minor stormwater site plan assists the owner / applicant in preparing the necessary information for the municipality to review and approve.

### OWNER ACKNOWLEDGMENT

- Development activities shall begin only after the municipality approves the use plan.
- The installed BMPs will not adversely affect any property, septic systems, or drinking water wells on this or any other property.
- If a stormwater management alternative to the approved stormwater management plan is used, the applicant will submit a revised plan to the municipality for approval. If a site requires a more complex system or if problems arise, the applicant may need the assistance of a licensed professional.
- The applicant acknowledges that the proposed stormwater management system will be a permanent fixture of the property that can not be altered or removed without approval by the Township.

l (we)		, hereby acknowledge the above
	agree to assume full responsibility for the imple	
maintenance of	the proposed stormwater management facilities.	Furthermore, I (we) also acknowledge
that the steps,	assumptions, and guidelines provided in this	simplified approach package will be
adhered to.		
Signature:		Date:
Signature:		Date: