East Mead Township

23900 State Highway 27

Meadville, PA 16335

eastmeadtwp@zoominternet.net **Office (814) 724-8970**

Date: _____ Invoice No. _____

Name & Address: Stormwater application

_____ STD90311_____

_____ SPA82511_____

_____ AGS71111_____

_____

Phone Number: _____

Make check/money order payable to:

East Mead Township

Remit with Stormwater Application to the address above.

The application will be reviewed as soon as possible by the Supervisors or by the next monthly meeting held _____

Status of application: To be continued..... or Accepted

Date _____ Date _____

No changes required- accepted by _____

*Additional information is needed before accepted as follows:

_____

_____

_____

Application Payment:

Paid by Check # _____ Date: _____

Paid by Money Order # _____ Date: _____

Paid by Cash _____ Date: _____

Received by: _____ for East Mead Township

STANDARD APPLICATION FORM

STORMWATER MANAGEMENT APPLICATION IN ACCORDANCE WITH ORDINANCE NO. 2011-1

EAST MEAD TOWNSHIP

This form is to be used for all activities regulated by the Stormwater Management Ordinance that do not meet the requirements for use of the Small Projects Application Form or the Agricultural Structure Registration Form. It is for all projects creating over 5,000 square feet of IMPERVIOUS SURFACE. Also for all projects over 2,500 square feet that are not single family homes. Examples of these projects are: duplexes, condominiums, apartments, commercial, business, medical, and industrial facilities, mobile home parks, campgrounds, etc. It is also for activities that alter or change the way or manner that runoff flows, or the quality, velocity, and/or water quality of the runoff. Examples of these activities are: the construction of ponds that have outlets, changes in ditches and stream channels, earth grading that changes the watershed drainage area, etc.

Purpose: The purpose of this application form is to meet the requirements of the Township Stormwater Management (SWM) Ordinance and the Stormwater Management Act of Pennsylvania. Stormwater applications and/or permits are required to be obtained from the Township for activities that affect stormwater runoff including the construction or addition of anything that has an impermeable surface such as buildings and structures with roofs, driveways, patios, and sidewalks. Applications and/or permits are also required for activities that alter or change the way or manner that runoff flows, the quantity, velocity, and/or quality.

1. Property Owner's Name(s)	
Mailing Address	
City, State, Zip Code	

2.1. Project location if different from mailing address:
2.2 . Project property map and control number:

3-1. Project Description and area (examples: the construction of a 2,600 square foot house, a 1,200 square foot garage/barn, a 100 foot long driveway, and a 400 square foot patio; the construction of a 2,600 square foot tool and die plant; the construction of a pond outlet channel, etc.):

3-2. If structures are removed in the project, describe and give the area removed:
square feet

4. Structures must be setback from the property lines (Ordinance No. 1979-1). Check if you will meet the following requirements.

☐	At least 50 feet from the road right-of-way line.
☐	At least 20 feet from side and rear property lines.

5. How much new impervious surface area does your project involve? Impervious surfaces are any surface that prevents the infiltration of wter into the ground. This includes house roofs, driveways, sidewalks, patios, garage roofs, storage sheds, and similar surfaces. Existing impervious area and repairs and redevelopment of existing impervious area is not considered "new" impervious surface for this calculation. Complete this Table to Calculate Total Impervious Surface Area.

Surface Type	Length (ft)	X	Width (ft)	=	Impervious Area (square feet)
Buildings:		X		=	
		X		=	
		X		=	
Driveway:		X		=	
Parking Areas:		X		=	
Patios/Walks:		X		=	
Other:		X		=	
		X		=	
Existing Impervious Surface Area removed by project (see item #3-2)					**minus**
Total Impervious Surface Area (sum of all areas minus area removed)					

Check the Total Impervious Surface Area that applies to your project.

☐ **1,000 square feet or less. If the Total Impervious Surface Area is 1,000 square feet or less, check here and use the Small Projects Application Form.**

☐ **1,001 square feet to 2,500 square feet. If the Total Impervious Surface Area is 1,001 square feet to 2,500 square feet, check here and use the Small Projects Application Form.**

☐ **2,501 square feet to 5,000 square feet involving a single family home. If the Total Impervious Surface Area is 2,501 square feet to 5,000 square feet and the project involves one single family home, check here and use the Small Projects Application Form.**

☐ **An Agricultural Structure within an Agricultural Security Area as part of a USDA NRCS approved Conservation Plan, and the activities are in accordance with 25 PA Code 102. If so, check here and use the Agricultural Structure Registration Form.**

IF YOU DID NOT CHECK ANY OF THE PREVIOUS FOUR BLOCKS, you must prepare or have prepared a STORMWATER MANAGEMENT SITE PLAN AND REPORT which demonstrates compliance with the requirements of the Stormwater Management Ordinance. A copy of the Ordinance may be obtained from the Township Secretary by reimbursement for the cost of making the copies.

☐ **THE STORMWATER MANAGEMENT SITE PLAN AND REPORT for my (our) proposed activity/project is submitted with this application form.**

6. **Fees:** Standard Applications are required to be reviewed by the Township Engineer. A base fee must be submitted with the Application to cover Township processing costs. The Ordinance requires a separate Agreement to be entered into by the applicant wherein the applicant agrees to a schedule of payments by the applicant to reimburse the Township for the cost of the Engineering review (Refer to Section 1302 of the Ordinance).

7. Acknowledgement:

- I (we) hereby declare that I (we) are the Property Owner
- The information provided on this application is accurate to the best of my (our) knowledge. I (we) understand that submission of inaccurate information may result in a stop work order, and/or revocation of permit(s) and/or other enforcement action under the Stormwater Management Ordinance.
- Township representatives are hereby granted access to the above described property as may be required for review and inspection of this project.

Property Owner Signature(s):	Date:
	Date:

Township Official receipt of Application Form and Fee Paid:	
Official Signature:	Date:

Note: This is not a building permit. A separate building permit is required by Pennsylvania Law. To obtain a building permit you must contact a State licensed Uniform Construction Code Inspector.

ORDINANCE EXCERPTS PAGE ----- SECTIONS 302 E, 302 F, AND 302 G

(for projects with impervious surface area over 1,000 square feet)

E. All exempt Regulated Activities shall:

1. Meet applicable State Water Quality Standards and Requirements. The applicant shall verify on the application form that he will meet the Standards and Requirements.
2. Meet special requirements for High Quality (HG) and Exceptional Value (EV) watersheds as applicable.

F. All exempt Regulated Activities shall, to the maximum extent practicable:

1. Limit disturbance of Floodplains, Wetlands, Natural Slopes over 15%, existing native vegetation, and other sensitive and special value features.
2. Maintain riparian and forested buffers.
3. Limit grading and maintain non-erosive flow conditions in natural flow paths.
4. Maintain existing tree canopies near impervious areas.
5. Minimize soil disturbance and reclaim disturbed areas with topsoil and vegetation.
6. Direct runoff to pervious areas.

G. No exempt Regulated Activity shall cause a substantial adverse impact to the following:

1. Capacities of existing drainageways and storm sewer systems.
2. Velocities and erosion.
3. Quality of runoff if direct discharge is proposed.
4. Existing known problem areas.
5. Safe conveyance of the additional runoff.
6. Downstream property owners.

VOLUME CREDIT Sheets (Pages 5, 6, 7, and 8)

(for projects with impervious surface area over 2,500 square feet)

These sheets allow you to calculate how much runoff flow you need to capture and manage and to present the means that you will use in the project.

CREDIT #1: DISCONNECTION OF IMPERVIOUS AREA: When runoff from impervious area is directed to a pervious area that allow for infiltration, filtration, and increased time of concentration, all or parts of the impervious area may qualify as Disconnected Impervious Area (DIA). DIA can reduce the volume of stormwater that needs to be managed. If the criteria listed below can be met, use this worksheet to calculate the DIA Credit and determine the portion of the impervious area that can be excluded from the calculation of impervious area to be managed for stormwater control.

A. Criteria

An impervious area is considered to be completely, or partially, disconnected if it meets the following:

- Flow path at the discharge area has a positive slope of less than or equal to 5%
- Soil at discharge is not classified as hydrologic soil group "D" (Refer to soil maps).
- Rooftop area draining to a single downspout is less than or equal to 500 sq. ft.
- Paved area draining to a discharge is less than or equal to 1,000 sq. ft.
- Flow path of paved impervious area is not more than 75 feet long
- A gravel strip of other spreading device is used at paved discharges

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

*Flow path is the length from the discharge to the nearest property line or channelized flow (measured along the ground slope). Pervious flow path must be at least 15 feet from any impervious surfaces.

(Continued on Pages 6, 7,and 8.)

B. Calculate DIA Credit and Required Capture Volume									
Surface Type	**Proposed Impervious Area (sq. ft.) Refer to Item #8**	**x**	**DIA Credit Factor**	**=**	**Impervious Area to be Managed (sq. ft.)**	**÷**		**=**	**Required Capture Volume (cu. ft.)**
Buildings (area per downspout)		x		=		÷	6	=	
		x		=		÷	6	=	
		x		=		÷	6	=	
		x		=		÷	6	=	
		x		=		÷	6	=	
Driveway		x		=		÷	6	=	
Parking Areas		x		=		÷	6	=	
Patios/Walks		x		=		÷	6	=	
Other		x		=		÷	6	=	
		x		=		÷	6	=	
TOTAL REQUIRED CAPTURE VOLUME									

CREDIT #2: TREE PLANTING: Trees provide many stormwater benefits such as intercepting rainfall, increasing evapotranspiration and increasing time of concentration. The total volume of stormwater to be managed can be further reduced by planting new trees and preserving existing trees in the project area. Provided the criteria below are met, the Total Required Capture Volume can be reduced per the following table:

Deciduous Trees	Evergreen Trees
6 cu. ft. per tree planted	10 cu. ft. per tree planted
12 cu. ft. per tree preserved*	20 cu. ft. per tree preserved*

* To qualify for the credit for preserved tree, the tree must be a minimum 3 inch caliper. Otherwise, the credit shall be the same as for a tree planted.

A. Criteria

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

- Planted trees shall be a minimum 1-inch caliper tree and 3 foot tall shrub (minimum)
- Trees shall be adequately protected during construction
- Trees shall be maintained

- 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

B. Calculate Tree Credit

Type	Number of Trees	x	Cu. Ft. per Tree	=	Tree Credit
Deciduous Trees: Planted (1-inch and greater caliper) or Preserved (less than 3-inch caliper)		x	6	=	
Deciduous Trees: Preserved (3-inch and greater caliper)		x	12	=	
Evergreen Trees: Planted (1-inch and greater caliper) or Preserved (less than 3-inch caliper)		x	10	=	
Evergreen Trees: Preserved (3-inch and greater caliper)		x	20	=	
Line 1	**Total Tree Credit**				
Line 2	**25% of Total Required Capture Volume (see Credit #1)**				

C. Calculate the Capture Volume to be Managed by Structural BMPs (Best Management Practices) (cu. ft.)

Required Capture Volume (cu. ft.)	- (minus)	Usable Tree Credit (the smaller of Line 1 and Line 2, above)	=	Capture Volume to be Managed by Structural BMP's (cu. ft.)
	-		=	

D. How will you manage the capture volume?

☐ I (we) will construct and maintain a Rain Garden to manage _ _____ cu. ft.

☐ I (we) will construct and maintain a Dry Well or Infiltration Trench to manage _____ cu. ft.

☐ I (we) will construct and maintain an alternate BMP to manage _____ cu. ft. and have attached full supporting data, calculations, and drawings to describe the alternative BMP and show that it will be effective.

E. Calculate Size Required for Rain Garden and Dry Well or Infiltration Trench:

☐ The system(s) will be designed and installed and maintained in accordance with the Stormwater Management Ordinance and will be located as not to adversely affect other property, nor any septic systems or drinking water wells on this, or any other parcel. Check here if you accept and agree to this condition.

Capture Volume to be Managed (cu. ft.)		**x**	**Conversion Factor**	**=**	**Surface Area of BMP's (sq. ft.)**
By Rain Garden (6-inch ponding; 2-inch soil depth)		x	1.20	=	
By Dry Well or Infiltration Trench (2.5-foot aggregate depth)		x	1.25	=	
Total			**Total**		

Return to item #9 on page 3.