

**ORDINANCE APPENDIX C-1  
DRAINAGE PLAN APPLICATION**

Application is hereby made for review of the Stormwater Management Plan and related data as submitted herewith in accordance with the Maxatawny Township Stormwater Management Ordinance.

\_\_\_\_\_ Final Plan \_\_\_\_\_ Preliminary Plan \_\_\_\_\_ Sketch Plan

Date of Submission \_\_\_\_\_ Submission No. \_\_\_\_\_

1. Name of subdivision or development \_\_\_\_\_

2. Name of Applicant \_\_\_\_\_ Telephone No. \_\_\_\_\_

(if corporation, list the corporation's name and the names of two officers of the corporation)

\_\_\_\_\_ Officer 1

\_\_\_\_\_ Officer 2

Address \_\_\_\_\_

Zip \_\_\_\_\_

Applicants interest in subdivision or development  
(if other than property owner give owners name and address)

3. Name of property owner \_\_\_\_\_ Telephone No. \_\_\_\_\_

Address \_\_\_\_\_

Zip \_\_\_\_\_

4. Name of engineer or surveyor \_\_\_\_\_ Telephone No. \_\_\_\_\_

Address \_\_\_\_\_

Zip \_\_\_\_\_

5. Type of subdivision or development proposed:

_____ Single-Family Lots	_____ Townhouses	_____ Commercial (Multi-Lot)
_____ Two Family Lots	_____ Garden Apartments	_____ Commercial (One-Lot)
_____ Multi-Family Lots	_____ Mobile-Home Park	_____ Industrial (Multi-Lot)
_____ Cluster Type Lots	_____ Campground	_____ Industrial (One-Lot)
_____ Planned Residential Development	_____ Other (_____)	

6. Lineal feet of new road proposed \_\_\_\_\_ L.F.

7. Area of proposed and existing impervious area on entire tract.

- a. Existing (to remain) \_\_\_\_\_ S.F. \_\_\_\_\_ % of Property  
b. Proposed \_\_\_\_\_ S.F. \_\_\_\_\_ % of Property

8. Stormwater

a. Does the peak rate of runoff from proposed conditions exceed that flow which occurred for existing conditions for the designated design storm? \_\_\_\_\_

b. Design storm utilized (on-site conveyance systems) (24 hr.) \_\_\_\_\_  
No. of Subarea \_\_\_\_\_  
Watershed Name \_\_\_\_\_

Explain: \_\_\_\_\_  
\_\_\_\_\_

c. Does the submission and/or district meet the release rate criteria for the applicable subarea? \_\_\_\_\_

d. Number of subarea(s) from Ordinance Appendix D of the Sacony Creek Watershed Stormwater Management Plan. \_\_\_\_\_

e. Type of proposed runoff control \_\_\_\_\_

f. Does the proposed stormwater control criteria meet the requirement/guidelines of the Stormwater Ordinances? \_\_\_\_\_

If not, what variances/waivers are requested? \_\_\_\_\_  
\_\_\_\_\_

Reasons \_\_\_\_\_

f. Does the plan meet the requirements of Article III of the Stormwater Ordinances? \_\_\_\_\_

If not, what variances/waivers are requested? \_\_\_\_\_

Reasons Why \_\_\_\_\_  
\_\_\_\_\_

h. Was TR-55, June 1986 utilized in determining the time of concentration? \_\_\_\_\_  
\_\_\_\_\_

i. What hydrologic method was used in the stormwater computations? \_\_\_\_\_  
\_\_\_\_\_

j. Is a hydraulic routing through the stormwater control structure submitted? \_\_\_\_\_  
\_\_\_\_\_

k. Is a construction schedule or staging attached? \_\_\_\_\_

l. Is a recommended maintenance program attached? \_\_\_\_\_

9. Erosion and Sediment Pollution Control (E&S):

a. Has the stormwater management and E&S plan, supporting documentation and narrative been submitted to the Berks County Conservation District? \_\_\_\_\_

b. Total area of earth disturbance \_\_\_\_\_ S.F.

10. Wetlands

a. Have the wetlands been delineated by someone trained in wetland delineation? \_\_\_\_\_

b. Have the wetland lines been verified by a state or federal permitting authority? \_\_\_\_\_

c. Have the wetland lines been surveyed? \_\_\_\_\_

d. Total acreage of wetland within the property \_\_\_\_\_

e. Total acreage of wetland disturbed \_\_\_\_\_

f. Supporting documentation \_\_\_\_\_

11. Filing

a. Has the required fee been submitted? \_\_\_\_\_

Amount \_\_\_\_\_

b. Has the proposed schedule of construction inspection to be performed by the Applicant's engineer been submitted? \_\_\_\_\_

c. Name of individual who will be making the inspections \_\_\_\_\_

d. General comments about stormwater management at the development \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CERTIFICATE OF OWNERSHIP AND ACKNOWLEDGMENT OF APPLICATION:

COMMONWEALTH OF PENNSYLVANIA  
COUNTY OF BERKS

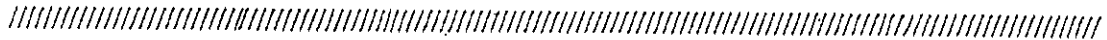
On this the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, the undersigned officer, personally appeared \_\_\_\_\_ who being duly sworn, according to law, deposes and says that \_\_\_\_\_ owners of the property described in this application and that the application was made with \_\_\_\_\_ knowledge and/or direction and does hereby agree with the said application and to the submission of the same.

\_\_\_\_\_ Property Owner

My Commission Expires \_\_\_\_\_ 20\_\_\_\_  
Notary Public \_\_\_\_\_

THE UNDERSIGNED HEREBY CERTIFIES THAT TO THE BEST OF HIS KNOWLEDGE AND BELIEF THE INFORMATION AND STATEMENTS GIVEN ABOVE ARE TRUE AND CORRECT.

SIGNATURE OF APPLICANT \_\_\_\_\_



(Information Below This Line To Be Completed By Maxatawny Township)

\_\_\_\_\_ Maxatawny Township official submission receipt:

Date complete application received \_\_\_\_\_ Plan Number \_\_\_\_\_

Fees \_\_\_\_\_ date fees paid \_\_\_\_\_ received by \_\_\_\_\_

Official submission receipt date \_\_\_\_\_

Received by \_\_\_\_\_

\_\_\_\_\_  
Maxatawny Township

**Drainage Plan  
Proposed Schedule Of Fees**

Subdivision name \_\_\_\_\_ Submittal No. \_\_\_\_\_

Owner \_\_\_\_\_ Date \_\_\_\_\_

Engineer \_\_\_\_\_

1. Filing fee	\$ _____
2. Land use	
2a. Subdivision, campgrounds, mobile home parks, and multi-family dwelling where the units are located in the same local watershed.	\$ _____
2b. Multi-family dwelling where the designated open space is located in a different local watershed from the proposed units.	\$ _____
2c. Commercial/industrial.	\$ _____
3. Relative amount of earth disturbance	
3a. Residential	
road <500 l.f.	\$ _____
road 500-2,640 l.f.	\$ _____
road >2,640 l.f.	\$ _____
3b. Commercial/industrial and other impervious area <3,500 s.f.	\$ _____
impervious area 3,500-43,460 s.f.	\$ _____
impervious area >43,560 s.f.	\$ _____
4. Relative size of project	
4a. Total tract area <1 ac	\$ _____
1-5 ac	\$ _____
5-25 ac	\$ _____
25-100 ac	\$ _____
100-200 ac	\$ _____
>200 ac	\$ _____
5. Stormwater control measures	
5a. Detention basins & other controls which require a review of hydraulic routings (\$ per control).	\$ _____
5b. Other control facilities which require storage volume calculations but no hydraulic routings. (\$ per control)	\$ _____
6. Site inspection (\$ per inspection)	\$ _____
Total	\$ _____

All subsequent reviews shall be 1/4 the amount of the initial review fee unless a new application is required as per Section 406 of the stormwater ordinance. A new fee shall be submitted with each revision in accordance with this schedule.

## ORDINANCE APPENDIX C-2 DRAINAGE PLAN CHECKLIST

Project: \_\_\_\_\_  
Municipality: \_\_\_\_\_  
Engineer: \_\_\_\_\_  
Submittal No: \_\_\_\_\_  
Date: \_\_\_\_\_  
Project ID: \_\_\_\_\_ (for Municipal use ONLY)

### SECTION I: REGULATED ACTIVITIES

Reference: Section 105

1. Is the Proposed Project within the Sacony Creek watershed?  Yes  No
2. Does the Proposed Project meet the definition of a "Regulated Activity"?  Yes  No

**STOP** – If you have checked NO for either of the above questions, you are not required to submit a Storm Water Management Plan under the Sacony Creek Storm Water management Ordinance.

### SECTION II: EXEMPTION

Reference: Section 402

Note: Parent Tract refers to the total parcel configuration on \_\_\_\_\_ and includes any subdivision of lands which may have occurred after than date.

Parent Tract Area: \_\_\_\_\_ acres

Total Existing Impervious Area (as of \_\_\_\_\_): \_\_\_\_\_ acres

Total New Impervious Area (all Phases): \_\_\_\_\_ acres

Parcel IS Exempt from drainage plan submittal refer to appendix I  Parcel IS NOT Exempt

### SECTION III: NONSTRUCTURAL PROJECT DESIGN

Reference: Section 304

1. Has an Existing Resource and Site Analysis Map (ERSAM) been prepared?

Yes  No, Explain \_\_\_\_\_

SECTION III: NONSTRUCTURAL PROJECT DESIGN (Continued)

2. Are any of the following Environmentally Sensitive areas identified on site?

- |                               |                              |                             |                                  |
|-------------------------------|------------------------------|-----------------------------|----------------------------------|
| Steep Slopes                  | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Unknown |
| Ponds / Lakes / Vernal Pools  | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Unknown |
| Streams                       | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Unknown |
| Wetlands                      | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Unknown |
| Hydric Soils                  | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Unknown |
| Flood plains                  | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Unknown |
| Stream Buffer Zones           | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Unknown |
| Hydrologic Soil Groups A or B | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Unknown |
| Recharge Areas                | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Unknown |
| Others: _____                 | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Unknown |

3. Does the site layout plan avoid Environmentally Sensitive Areas identified on site?

- Yes  No, Explain \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Has a stream buffer been established per Section 306.F.?

- Yes  No, Explain \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SECTION IV: GROUNDWATER RECHARGE

Reference: Section 305

1. Is the proposed activity considered a "Stormwater Hotspot" as defined in Section 305.C.?

- Yes  No

2. Have provisions been installed to promote groundwater recharge on site?

- Yes  No, Explain \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Total Recharge Volume Required: \_\_\_\_\_ cubic feet  
(using:  Method A;  Method B)

4. How is the Required Recharge Volume being addressed?

- |  |                                       |
|--|---------------------------------------|
| <input type="checkbox"/> Infiltration Trench | <input type="checkbox"/> Dry Swales   |
| <input type="checkbox"/> Infiltration Basin  | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Bioretention        |                                       |

SECTION V: WATER QUALITY

Reference: Section 306

1. Have provisions been installed to address stormwater runoff water quality on site?

Yes  No, Explain \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Total Water Quality Volume Required: \_\_\_\_\_ acre feet

3. Is the site in a Special Protection watershed which includes Exceptional Value (EV) of High Quality (HQ) waters?  Yes  No

4. How is the Required Water Quality Volume being addressed?

<input type="checkbox"/> Wet Detention Basin	<input type="checkbox"/> Sand Filter
<input type="checkbox"/> Extended Dry Detention Basin	<input type="checkbox"/> Constructed Wetlands
<input type="checkbox"/> Bioretention	<input type="checkbox"/> Other: _____

SECTION VI: STREAMBANK PROTECTION

Reference: Section 307

1. Has the 2- year proposed conditions flow been reduced to the 1- year existing conditions flow?

Yes  No, Explain \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Does the proposed conditions 1- year storm drain over a minimum 24- hour period?

Yes  No, Explain \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SECTION VII: OVERBANK AND EXTREME STORM EVENTS

Reference: Section 308

1. In which of the following Storm Water Management District(s) is the site located?

<input type="checkbox"/>	A	<input type="checkbox"/>	C	<input type="checkbox"/>	E
<input type="checkbox"/>	B	<input type="checkbox"/>	D		

2. Does the Proposed Conditions Runoff meet the Criteria established in Table 308.1?

Yes  No, if you answered Yes proceed to Section VIII.



SECTION VIII: CALCULATION METHODOLOGY

Reference: Section 309

1. Which method(s) are utilized in the site stormwater management plan for computing stormwater runoff rates and volumes?

- |  |  |
|--|--|
| <input type="checkbox"/> TR-20           | <input type="checkbox"/> PSRM            |
| <input type="checkbox"/> TR-55           | <input type="checkbox"/> Rational Method |
| <input type="checkbox"/> HEC-1 / HEC-HMS | <input type="checkbox"/> Other: _____    |

2. Was Table B-1 or Figure B-4 utilized in rainfall determination?

Yes  No, Explain \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Was Table B-2 (Runoff Curve Numbers) or Table B-3 (Rational Runoff Coefficients) utilized in calculations for runoff?

Yes  No, Explain \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. For any proposed storm water detention facility, were the appropriate design storms routed through the facility using the Storage-Indication Method?

Yes  No, Explain \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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SECTION IX: OTHER REQUIREMENTS

Reference: Section 310

1. Is this project subject to PENNDOT approval?

Yes  No

- a. If "YES" have these plans been forwarded to PENNDOT for review?

Yes  No, Explain \_\_\_\_\_  
\_\_\_\_\_

2. Have proposed wet detention basins incorporated biologic control consistent with the West Nile Guidelines presented in Appendix J?

Yes  No  Not Applicable

3. Are any proposed stormwater facilities subject to PADEP Chapter 105 permitting?

Yes  No

a. If "YES" have these plans been forwarded to PADEP for review?

Yes  No, Explain \_\_\_\_\_  
\_\_\_\_\_

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SECTION X: FACILITY OPERATION AND MAINTENANCE PLAN

Reference: Section 702

1. Has a Stormwater Control and BMP Operations and Maintenance Plan been approved by the Municipality?

Yes  No, Explain \_\_\_\_\_  
\_\_\_\_\_

2. Who shall assume responsibility for implementing the Stormwater Control and BMP Operations and Maintenance Plan?

Municipality  Homeowner Association  
 Private Owner  Other \_\_\_\_\_