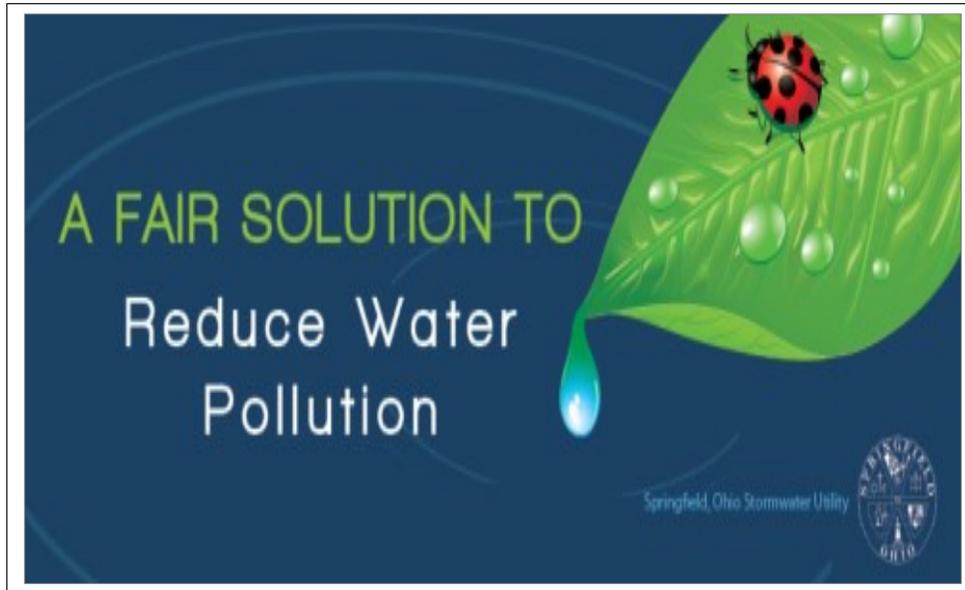


# STORMWATER POLICY MANUAL

CITY OF SPRINGFIELD, OHIO  
ENGINEERING DEPARTMENT



February 2017

**Applications for Credits should be sent to:**

City of Springfield  
Engineering Department  
76 E. High St.  
Springfield, OH 45502  
Attn.: Stormwater Utility Credit

**Checks should be made payable to:** City of Springfield

**For questions regarding the Credit Application, Contact:**

City of Springfield	Phone: (937) 324-7312
Attn: Leo Shanayda	Fax: (937) 328-3496
76 E. High St.	
Springfield, OH 45502	

**Overview**

A stormwater credit is a reduction in your stormwater utility service charge available if you do certain things that reduce the impact of stormwater generated from your property. Authority for the stormwater fee credit is found in the City of Springfield Codified Ordinance §918.05 and Ordinance No. 13-60. Visit <https://springfieldohio.gov/springfield-services/storm-water-treatment-in-springfield-ohio/> , for more information about any of the stormwater policies and practices mentioned below.

The City of Springfield established a Stormwater Utility in May 2011, with the passage of Ordinance No. 11-128. In establishing the stormwater utility the City has established and collects just and equitable rates, fees, and charges for the services and facilities provided by the stormwater utility system.

Chapter 918 of Springfield’s Codified Ordinances establishes a municipal public utility to provide efficient and effective management and financing of a Stormwater System within the City; to provide a system for mitigating the damaging effects of uncontrolled and unplanned stormwater runoff; to mitigate and reduce the amount of stormwater mixed with sanitary sewage and sent to the City’s wastewater treatment facilities; to protect the public health, safety and welfare by providing for the safe and efficient capture and conveyance of stormwater runoff, for the correction of stormwater conditions detrimental to the public health, safety and welfare; to authorize the establishment and implementation of plans and mechanisms for dealing with stormwater drainage, including design, coordination construction, management, operation, maintenance and replacement of stormwater management facilities, inspection and enforcement activities and administration of the City’s stormwater utility; to

establish reasonable stormwater utility service charges based on each property's contribution of stormwater runoff to the Stormwater System and use and benefit of services and facilities to fund the City's Stormwater System; and to encourage and facilitate urban water resources management techniques, including detention of stormwater runoff, enhancing the amount of and use of permeable surfaces, minimization of the need to construct storm sewers, and the protection of the environment.

Property owners applying for credits will need to submit a General Application (see page 13) and a Water Quality and Quantity Application (see page 15).

This manual will refer to properties having a Control Plan required under Chapter 961 of Springfield's Codified Ordinances. Those properties are generally properties that have a large portion of area covered with impervious surfaces, like parking lots or a building complex. Examples of those kinds of properties are shopping centers, commercial and industrial facilities, lands being subdivided, and condominium and apartment complexes.

### **A. General Credit Policy**

- It is the responsibility of the property owner to apply for a stormwater fee credit.
- Only the property owner can apply for a stormwater fee credit.
- Property owners must be current on Springfield city income tax and Springfield municipal utility bills to be eligible for a stormwater fee credit.
- Stormwater fee credits can be terminated at any time if the enhanced design facility and/or enhanced design practice for which a credit is granted does not exist on the property or if they are non-functional and ineffective in reducing the impact of stormwater generated from the property.
- Each property owner that has applied for and received a credit against the stormwater utility fee has the private responsibility to inspect and repair their facility to ensure that it is functioning as described in the credit application.
- A property owner may receive multiple stormwater fee credits, but when the sum of those individual credits exceed 75% the combined credit shall be capped at the same.
- Credits are non-transferable. New property owners must reapply if they wish to receive a stormwater fee credit for an enhanced design facility and/or enhanced design practice that existed prior to the property's purchase.

**What Credits Are Available And Who Qualifies:** The credit program has two parts: water quantity credits and water quality credits. The water quantity and water quality credits are available to every property in Springfield; however, site-specific characteristics may make certain credits more feasible than others.

To qualify for a stormwater fee credit, a property owner must demonstrate that their existing/proposed facilities and stormwater management practices will reduce the impact of stormwater generated from their immediate property and from additional upstream drainage areas in a manner that exceeds the reduction impact of facilities and practices mandated by statutes and ordinances (such enhanced facilities and practices herein called “enhanced design facilities” and “enhanced design practices”). A property owner applying for a stormwater fee credit bears the burden of providing documentation and other proofs that their facilities and/or practices qualify as enhanced design facilities or enhanced design practices.

## **B. Water Quantity and Quality Credits**

### **Quantity Credit**

The quantity credit provides benefits for reducing flows to the stormwater system. There are many types of practices available to reduce the quantity of runoff to the stormwater system. To qualify for a quantity credit, a property owner must demonstrate that their existing/proposed facilities and stormwater management practices will qualify as enhanced design facilities and enhanced design practices.

Table 1 describes three common examples of facilities that will qualify as enhanced design facilities. The Table 1 practices qualify on all property, but may best suit single-family homes and other property not required to detain stormwater onsite. A property owner may receive a fee credit for other stormwater facilities or practices not listed in Table 1 if the City is able to find that the facility or practice will qualify as an enhanced design facility or practice.

**Table 1**

<b>Facility/Practice</b>	<b>Requirement</b>	<b>Credit</b>
Bioretention/rain garden	Sized to capture runoff from 25% of the parcel’s impervious area.	50% credit against the stormwater fee
Rain barrel/Cistern	Homes must have storage for 100 gallons. Businesses must have storage for 15% of the runoff from a 1 inch rain.	50% credit against the stormwater fee
Disconnect Downspouts from underground drain and seal pipe	At least 75% of the property’s downspouts directly outlet onto a flat	50% credit against the stormwater fee

	or concave pervious area at least 10 feet wide and 15 feet long.	
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Properties with a Control Plan (as defined in the City’s existing stormwater management regulations, Springfield Codified Ordinance Chapter 961) may receive a credit based on use of a facility or practice from Table 1, but may also qualify for a credit if the practice(s) described in the property owner’s Control Plan reduces peak flows to the stormwater system beyond the requirements imposed in Springfield Codified Ordinance Chapter 961. Common examples of facilities that may qualify as an enhanced design facility include:

1. Stormwater Detention Basins
2. Stormwater Retention Basins
3. Storm Sewers
4. Storm Culverts
5. Stormwater Channels

With respect to peak flows, Springfield Codified Ordinance Chapter 961 requires the following:

Percentage increase in volume of runoff		24-hour “critical storm” for discharge limitation
>/=	<	
0	10	1 year
10	20	2 year
20	50	5 year
50	100	10 year
100	250	25 year
250	500	50 year
500		100 year

Springfield Codified Ordinance Chapter 961 is intended to require that enough storage be provided so that the peak discharge for the “critical storm” is not increased as the result of new development or redevelopment.

A maximum of 25% quantity credit is offered to properties if enhanced design facilities and/or enhanced design practices ensure that the peak discharge reduction exceeds the requirements stipulated in the Springfield Codified Ordinance Chapter 961. A 10% quantity credit will be granted if the peak discharge for the next level design storm as required by Springfield Codified

Ordinance Chapter 961 is maintained at or below peak flow for the pre-development conditions. A quantity credit of 20% will be provided if the peak discharge for the design storm at 2 levels greater than that required by Springfield Codified Ordinance Chapter 961 is maintained at or below peak flows of the pre-development conditions. A quantity credit of 25% will be provided if the peak discharge for the design storm at 3 levels greater than that required by Springfield Codified Ordinance Chapter 961 is maintained at or below peak flows of the pre-development conditions. The quantity credit offered - 10%, 20%, or 25% - depends on how much the peak discharge reduction exceeds the requirements stipulated in Springfield Codified Ordinance Chapter 961.

For example, if development on a property will increase runoff by 20 to 50 percent from its pre-development levels, the ordinance requires that storage must be provided to maintain the pre-development peak runoff for a 5-year storm event. To obtain a 10% quantity credit, the onsite stormwater management system on the property must include enough storage to maintain pre-development peak runoff conditions for the next greater storm, which is a 10-year event. A 20% quantity credit would be granted if the storage were provided to maintain pre-development peak runoff conditions for a 25-year event. The maximum 25% quantity credit would be granted if the storage is provided to maintain pre-development peak runoff conditions for a design storm 3 levels greater than required by the ordinance is maintained at or below peak flows of the pre-development conditions.

## **Quality Credit**

A 15% quality credit is available for properties that treat runoff prior to discharging from the property.

A quality credit is offered for properties employing enhanced design facilities and/or enhanced design practices to reduce pollution in stormwater runoff. These enhanced design facilities and/or enhanced design practices must be listed in U.S. EPA's National Menu of Stormwater Best Management Practices<sup>1</sup>. By way of example, this would include :

- Vegetated Swales and Filter Strips,
- Infiltration and Percolation Basins,
- Percolation Trenches,
- Green Roofs,
- Buffer Strips and Swales,
- Porous Pavement,
- Retention (Wet) Ponds,
- Constructed Wetlands,
- Media Filtration, and/or
- Trash Racks on stormwater pond outlet structures,

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<sup>1</sup> <http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm>: See 'Filtration and Infiltration' under #5 Post Construction and #6 Pollution Prevention/Good Housekeeping

- Biweekly parking lot sweeping,
- No-mow zones around stormwater ponds,
- Planting water quality-improving vegetation below a pond's water line, and
- Other practices approved by the Stormwater Coordinator, that qualify as enhanced design facilities or enhanced design practices.

Properties with a Control Plan may apply for a credit based on their use of an enhanced design practice listed above, but may also apply if the practice(s) described in their Control Plan treats a volume of water greater than required by Springfield Codified Ordinance Chapter 961. Springfield Codified Ordinance Chapter 961 requires new development or significant redevelopment to capture and treat the runoff resulting from the first 0.75 inches of rain. A 15% quality credit will be granted for new development or redevelopment that employs enhanced design facilities and/or enhanced design practices to treat a volume 25% greater than that required to be treated by Springfield Codified Ordinance Chapter 961.

### **C. Steps to Receive the Quantity or Quality Credit**

In order to apply for credits, property owners must supply the following<sup>2</sup>:

1. For credits associated with a stormwater facility required as part of a Control Plan, a site plan and as-built construction drawings (signed and sealed by a licensed surveyor or engineer) at an appropriate scale, showing the site, topographic details, overland flow paths, all stormwater facilities, and relevant surrounding area. As-built construction drawings are necessary to verify the current specifications of the stormwater facility that, due to sedimentation, changes during construction, and other factors, may differ from the original facility drawings;
2. If water quantity credits are requested, design calculations must be submitted for the existing or proposed stormwater facilities required as part of a Control Plan. Design calculations shall be based upon hydrologic and hydraulic methodologies approved by the City that accurately describes the runoff and conveyance through the site. For water quality credits, design calculations must be submitted that document the design criteria for the facilities and indicate the facilities efficiency or ability to remove both suspended solids and dissolved pollutants;
3. For water quantity credits pertaining to a stormwater facility required as part of a Control Plan, a detailed report that clearly describes how the stormwater facility functions for design storm events for the 1-, 2-, 5-, 10-, 25-, 50-, and 100-year events;

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<sup>2</sup> Applicants proposing non-structural BMPs to earn water quality credits need to only submit items # 5-6

4. A proposed maintenance schedule submitted by the property owner that describes in detail the maintenance activities for the stormwater facility;
5. The General Application (page 13);
6. The Water Quality and Quantity Credit Application (page 15).

#### **D. User Fee Adjustments**

Requests for adjustment of the stormwater user fee shall be submitted to the City Engineer. After December 31, 2013, the application fee for user fee adjustment is \$10 for owners of vacant, residential, and individual condominium property and \$75 for all other property owners.

The following procedures shall apply to all adjustment requests of the stormwater user fee:

- Any property owner who has paid their stormwater utility fees, and who believes the Equivalent Stormwater Unit (ESU) component of his stormwater utility fee to be incorrect, may submit an adjustment request (page 19).
- The first step in the adjustment process will be a review of the City's calculation of the impervious area. If resolution is not achieved, the City may request the property owner to provide supplemental information including, but not limited to, survey data prepared by an Ohio registered Professional Land Surveyor (PLS) presenting the amount of impervious area and/or engineering prepared by an Ohio registered Professional Engineer (PE). Failure to provide such information may result in the denial of the adjustment request.
- The City shall respond in writing to all adjustment requests. The response shall provide an explanation of adjustment approval or denial as well as requests for additional information. All adjustments made by December 31, 2013 shall result in credits for overpayment applied to the property owner's stormwater bill.

Adjustment denials may be appealed as provided for in Subdivision 918.10(c) of Springfield's Codified Ordinances. See division F, below.

#### **E. User Fee Not Applicable**

Properties not contributing any stormwater runoff to the Springfield stormwater system are not subject to the user fee.

Subdivision 918.06(c) of Springfield's Codified Ordinances provides:

It is the intent of this Chapter that the stormwater utility service charge be imposed only on property that is likely to contribute stormwater to the Stormwater System. There is a presumption that all properties in the City are likely to contribute stormwater to the Stormwater System; however, a property owner may rebut this presumption by providing evidence to the City proving that a property is unlikely under any circumstances to contribute stormwater to the Stormwater System. In the event a property owner is able to prove that the property owner's property is unlikely under any circumstances to contribute stormwater to the Stormwater System, then no stormwater utility service charge will be applicable to that property.

- Stormwater System means the City's system or network of storm and surface water management facilities including but not limited to inlets, conduits, manholes, channels, ditches, gullies, canals, channels, lakes and ponds, curb and gutter, infiltration facilities, components (or allocated portions of components) of the City's wastewater treatment system deemed necessary to treat wastewater containing stormwater, and other components as well as natural waterways. See Springfield Codified Ordinance Subdivision 918.02(r).

Requests for a determination that the stormwater user fee is not applicable to a property shall be submitted to the City Engineer. The City Engineer shall provide a written determination to the property owner in response to all requests for determinations that the user fee is not applicable. A determination that the user fee is not applicable does not entitle the property owner to a refund of previously paid user fees. City Engineer determinations may be appealed as provided for in Subdivision 918.10(c) of Springfield's Codified Ordinances. See division F below.

## **F. Appeals**

An applicant aggrieved by a decision of the City Engineer made on an application filed with the City may file an appeal along with a processing fee of \$100 for property with a Commercial or Industrial Stormwater Class designation or \$25 for property with an Agricultural, Condominium, Residential, or Vacant Stormwater Class designation; provided that the filing of the appeal is made within 14 days after the City Engineer issues his decision granting or denying the application. The appeal shall be made to a panel comprised of the City Manager, the Finance Director and the Law Director, or their designees. The appeal panel shall consider the provisions of this Chapter 918 of the City's Codified Ordinances, the GIS and land use data collected and maintained by the County Auditor, the application and its attachments, the decision of the City Engineer and the contents of the appeal document in reviewing the City Engineer's decision and shall affirm or reverse or reverse and remand the City Engineer's decision.

As part of the appeal submittal, the applicant shall set forth in full or attach a complete copy of the following:

1. The interpretation, ruling, or order which is the subject of the appeal; and
2. The provisions of the City Code or related laws or ordinances on which the applicant relies to support the applicant's appeal. The written appeal document shall also state, specifically where the interpretation, ruling or order is in error or disputed.

The decision of the appeal panel shall be final. Further appeal shall be to the Court of Common Pleas.

### **G. General Credit Application Procedure**

1. Applications must be submitted with all required documentation to the City as described on each application. Applications can be mailed to **City of Springfield Engineering Department, 76 E. High Street, Springfield, OH 45502.**
2. A separate application must be made for each property location.
3. When an application is received, the City will conduct an administrative completeness review of all submitted materials. If the application is not complete, the City will contact the applicant and request the additional information necessary to complete the application.
4. Following the receipt of a complete application, the City will provide a complete review and the applicant will be notified in writing when an application is approved or denied. If an application is denied, the applicant can appeal based on the appeals procedure in Springfield Codified Ordinance §918.10 and as provided for in this Policy Manual.

### **H. Application Review Procedure**

Initial review of Stormwater Utility Credit Applications will be completed within 30 days of the receipt of the application form and fee payment. Application fees are one-time and non-refundable. The application forms will be checked for completeness and accuracy. If the application is found to be complete, accurate, and factual, a letter will be sent to the applicant notifying them of approval of the credit. Filing an application for a credit is an authorization from the property owner allowing the City of Springfield right-of-entry to inspect and verify the information submitted on said application. If deficiencies are found during the review, a deficiency letter will be sent to the applicant's contact person. Upon receipt of additional information from the applicant to constitute a complete application, the review will resume and be completed within 30 days of receipt of additional information. Billing adjustments required to implement credits shall be applied retroactively to the date of the property owner's complete credit

application. If an application is denied, a letter explaining reasons for the denial will be provided to the applicant. The applicant has the right to appeal this decision, in accordance with the procedures outlined in Chapter 918 of the City of Springfield Codified Ordinance.

### **I. Enforcement Policy**

The City reserves the right to at any time review the application for accuracy and/or inspect and review documentation confirming the employment of enhanced design facilities and enhance design practices. If, after its review or inspection, the City finds the application to be inaccurate or the projected level of service is not being provided or continued, the property owner will be notified in writing and given 45 days to correct the deficiency. The property owner must provide written documentation to the City Engineer within 30 days of the original notice by the City that the enhanced design facilities and enhance design practices are being provided or continued as agreed in addition to such evidences as the City Engineer requires showing that the deficiency has been corrected. If the City Engineer finds that the deficiency is not satisfactorily corrected, the credit attributable to the deficient facility or practice will be terminated for the then current and following billing cycles. Reapplication for a credit will not be reviewed until the deficient enhanced design facility or enhance design practice has been adequately reinstated for three continuous months and evidence of the effective corrections and when the corrections were completed has been provided with the reapplication. It will be the responsibility of the property owner to prove that the subject facilities and practices qualify as enhanced design facilities and practices prior to the credit being reissued.

As a condition of receiving a stormwater credit, a property owner agrees to allow the City access to inspect the property associated with the stormwater fee credit. The intent of the inspection is to verify that the enhanced design facility is being operated and maintained properly and that the enhanced design practices are properly implemented. Inspections will be performed at the discretion of the City to assure that the enhanced design facilities and practices are effective.

### **J. Application Fee for Credit**

A credit application will not be considered complete and will not be processed until the application fee has been paid and all appropriate forms and information required in this manual have been provided to the City Engineer. After December 31, 2013, the credit application fee shall be \$10 for owners of vacant, residential, and individual condominium property and \$75 for all other property. Application fees are non-refundable.

It is the intent of the Engineering Department to process applications within thirty (30) days of the submittal of the complete and correct application package. Billing adjustments required to implement credits shall be applied retroactively to the filing date of the property owner's complete credit application and payment of

the application fee. A pending application for credit shall not constitute a valid reason for nonpayment of the current stormwater utility charges. In the case of new development, stormwater utility charges and the associated credits detailed herein do not apply until construction is complete and as-built data for the enhanced design facility has been submitted.

## General Application - All applicants

Check one:

- This is the first application for credit for this property.
- This is a reapplication for credit or renewal credit after a credit suspension.
- User fee adjustment/fee not applicable to my property.

1. Applicant Name
2. Contact Name (if different than applicant)
3. Parcel Number(s)
4. Utility Account Number
5. Property Address: Street Number: City: Zip Code:
6. Mailing Address (if different): Street Number: City: Zip Code:
7. Phone Number:
8. Email Address:
9. Credits Applying For (see pages 4-7): <input type="checkbox"/> Quality Credit (15% Max.) <input type="checkbox"/> Quantity Credit ( 10% 20% 25% 50% ) <input type="checkbox"/> Both: Quantity and Quality Credit
10. Applicant/Contact Signature:
11. Date:

## **Instructions for completing the General Application**

1. Applicant Name – Name of individual property owner.
2. Contact Name – Particularly in the case of a non-residential or group application, the name of the contact who is submitting the application.
3. Parcel Number – Each piece of land that is sold has its own parcel number. This information can be found at the County Auditor’s office or website or on your utility bill. If there are multiple parcel numbers, attach a separate and complete list to the application, and note in box 3, “See attached list.”
4. The account number can be found on the monthly statement. If there are multiple account numbers, attach a separate and complete list to the application, and note in box 4, “See attached list.”
5. Property Address.
6. Mailing Address – Include if different from box 5.
7. Phone Number – Of primary contact for the application.
8. Email Address – Of primary contact for the application.
9. Credits Applying For – Select the credits for which the applicant is applying.
10. Applicant/contact signature.
11. Date.
12. Fees – After December 31, 2013, the credit application fee is \$10 for owners of vacant, residential, and individual condominium units and \$75 for all other property.

# CITY OF SPRINGFIELD

## Water Quality and Quantity Credit Application Form

Fill out this form completely. A separate application must be made for each separate property location. One application can be made for multiple stormwater facilities to be inspected on the same property.

### 1. Typical Stormwater Practices (circle the one(s) that apply)

Detention Pond	Underground Detention	Green Roof	Bio-Swale
Retention Pond	Constructed Wetland	Floatable Skimmer	Sand Filter
Bio-Retention	Permeable Pavement	Stream Buffer	Parking Lot Sweeping
Rain Garden*	Downspout Disconnect*	Rain Barrel/Cistern*	No-Mow Zone

Proprietary Device (list type) \_\_\_\_\_

Other: \_\_\_\_\_

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### 2. Describe the use of the Stormwater Quality / Quantity Practices (attach additional documents if needed):

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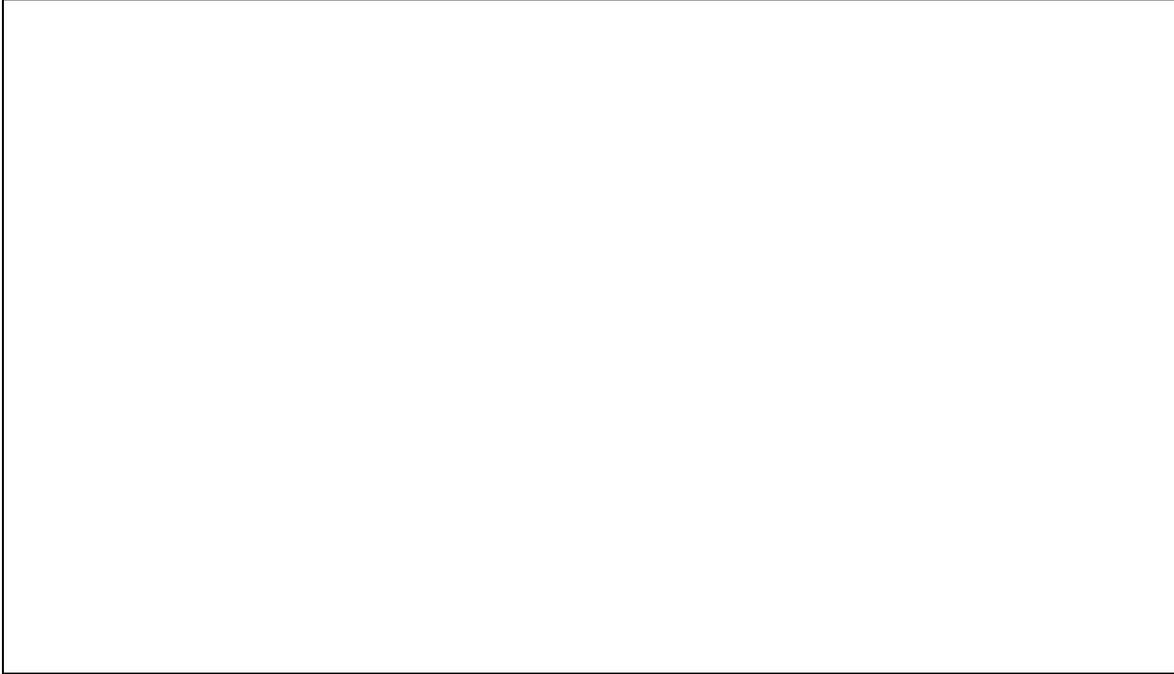
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\*See instructions on page 17.

**2. Sketch of property with practice shown (see instructions for sketch requirements)**



**3. Attach the supporting documents:**

- Letter seeking stormwater fee credit addressed to City Engineer (not applicable for residential property)
- See sheet 7 – for required information

**4. Property Owner Certification:**

I hereby request consideration for a Credit and further authorize the City of Springfield to inspect the above identified stormwater facility(ies) for the purposes of assessment for possible stormwater utility fee credit. I certify that I have authority to make such a request and authorization for this property. I further certify that the above information is true and correct to the best of my knowledge and belief. I agree to maintain the above stated BMPs to the prescribed criteria stated in the maintenance plan attached.

\_\_\_\_\_  
Type or print name

\_\_\_\_\_  
Title or Authority

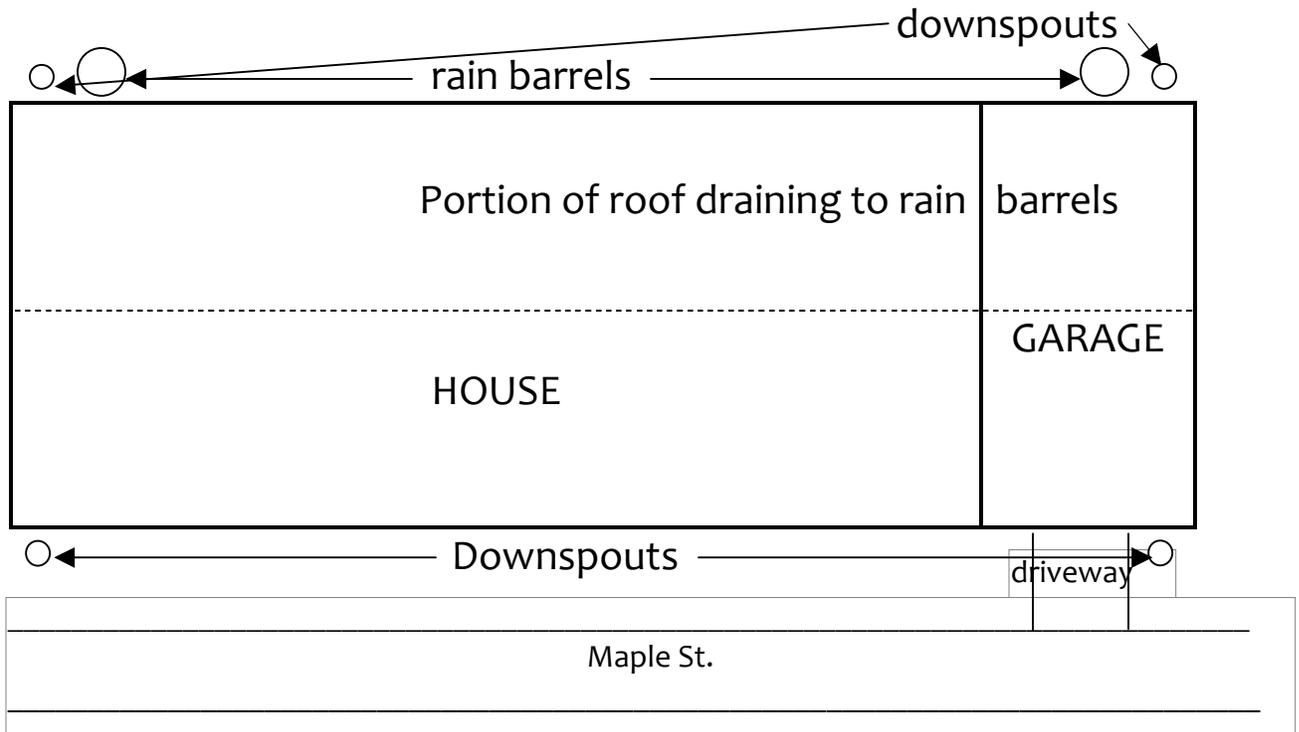
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

## Instructions for Completing the Water Quality and Quantity Credit Application Form

1. Typical Stormwater Practice – Select the stormwater practice (SP) that is being submitted for credit approval. If your SP is not listed, please describe it in ‘Other’
2. Describe the use of the SP – Describe how the SP will be used to reduce polluted stormwater runoff from your property. What is the source of the water flowing into it? What maintenance requirements does the SP have?
3. Sketch of property with SP shown – Include a sketch of the property for which the credit is to be applied. This can be a hand-drawn sketch. The sketch should represent an aerial view of the property and include at a minimum buildings, driveway/parking, SP(s), and road. If applying for a rain garden, show the portion of the property draining to the garden. If applying for the Rain Barrel/Cistern credit, applicant must show the location of the downspouts that drain to the storage device, and indicate the portion of the roof that drains to the downspouts. If applying for a downspout disconnect credit, show the location of all downspouts and which ones are disconnected. See example sketch below for a typical rain barrel installation.
4. Supporting Documents – Contact the City Engineer with questions.
5. Applicant/Contact Signature.

**Sketch of typical rain barrel installation:**



## **General Guidelines for Rain Garden Design**

The following is excerpted from “Water Resources Development Criteria Standards Manual Supplemental General Guidance for Rain Garden Design,” Fort Wayne, Indiana, January 2009.

Rain gardens may function independently or be integrated into a larger stormwater treatment system. They should be designed with consideration to their recreational, aesthetic, and wildlife function as well as treatment capacity. A rain garden should be constructed to retain a ponding depth of 4- to 8-inches. To avoid nuisance insects, such as mosquitoes, the size of the rain garden should be increased or the soil type amended so that ponding is limited to two days or less. Clay soil will usually require amendment with materials including topsoil, compost, sand, peat moss, and/or other organics. An engineered soil matrix consisting of 50% sand, 25% compost, and 25% topsoil is recommended. Rich organic material and/or mulch should be placed around plants within the garden to retain moisture, limit weed growth, and aid in the removal of heavy metals from stormwater runoff. Rain gardens shall be placed, at minimum, ten feet away from building foundations and the overflow path should not interfere with adjoining property drainage patterns. Early spring is the optimal season for construction and planting in order to take advantage of spring rains. Rain gardens may need to be watered during dry periods while the plants are getting established throughout the first growing season.

**Site Selection** – The area required for an effective rain garden is dependent on characteristics of the drainage area, impervious area, site soil conditions, and types of vegetation. The rain garden should be placed where runoff leaves a site or in a low area where water can collect. The necessary garden size can range from 10 to 40 percent of its catchment area, or the contributing drainage area. If infiltration rates are less than 0.10-inches per hour (typical of clay loam soil), the design may necessitate an engineered soil mix to promote infiltration.

Several factors may limit the effectiveness of water quality treatment and retention in a rain garden. The slope of the site, depth of the rain garden, existing soil type, and available area for the rain garden may all contribute to design challenges.

**Vegetation** – Native wetland or mesic wetland species facilitate improved rates of infiltration due to dense and deep-growing roots. These plants may add aesthetic qualities to a landscape. Vegetation must withstand both frequent dry conditions and periodic inundation; rain gardens should be designed to drain within a maximum of 48 hours. Deep-rooted perennials are ideal in these circumstances.

**CITY OF SPRINGFIELD, OHIO  
STORMWATER MANAGEMENT UTILITY PETITION FOR  
ESU ADJUSTMENT/FEE NOT APPLICABLE**

DATE:

UTILITY BILLING ACCOUNT NUMBER:

PROPERTY ADDRESS:

PARCEL NUMBER(S):

TYPE OF DEVELOPMENT:

PARCEL AREA (square feet):

Monthly Stormwater Fee:

REASON FOR PETITION:

- Incorrect amount of impervious area
- Parcel Identification
- Stormwater doesn't enter City System
- Other, explain:  
\_\_\_\_\_

Attach supporting documents and letter seeking adjustment to: **City of Springfield, City Engineer**

APPLICANT'S SIGNATURE:

APPLICATION REVIEWED BY:

DATE:

APPLICATION APPROVED:     YES         NO

CONDITIONS OF APPROVAL OR REASON FOR DENIAL AND COMMENTS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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**CITY OF SPRINGFIELD, OHIO  
STORMWATER MANAGEMENT UTILITY  
PETITION TO APPEAL DECISION OF CITY ENGINEER**

DATE:

COMPLAINANT:

COMPLAINANT'S ADDRESS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

UTILITY BILLING ACCOUNT NAME:

UTILITY BILLING ACCOUNT NUMBER:

PARCEL NUMBER(S):

PARCEL'S ADDRESS:

TYPE OF DEVELOPMENT (Check one):

- Agricultural, Condominium, Residential, or Vacant, \$25 processing fee
- Commercial or Industrial, \$100 processing fee

Reason for Appeal (State where a City ruling, interpretation, or order is erroneous and attaché a copy of said ruling, interpretation or order from the City, or specify City provision or applicable City Code exemption):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The Appeal has been reviewed by the City of Springfield Stormwater Appeals Panel on \_\_\_\_\_ 20\_\_\_\_. On this date, The Stormwater Appeals Panel  
 approved       denied the requested appeal. Comments or conditions:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_