

BOROUGH OF AMBLER

COUNCIL MEETING AGENDA June 20, 2017 7:00 p.m.

CALL TO ORDER: Mr. Sal Pasceri

PLEDGE OF ALLEGIANCE:

Mayor Jeanne Sorg

ROLL CALL: Ms. Mary Aversa

MINUTES APPROVED May 17, 2017

COMMITTEE REPORTS:

PUBLIC SAFETY
PUBLIC UTILITIES
FINANCE & PLANNING
PARKS & RECREATION
SALARY & PERSONNEL

Public Safety Committee

The Committee Meeting was held June 6, 2017 at 7:00 p.m. in Borough Council Chambers located at 131 Rosemary Avenue. Committee members: Edward Curtis (Chair), Sharon Mc Cormick, Jonathan Sheward. Absent: Mr. Curtis

The Committee will consider the following recommendation.

1. Adoption of the <u>attached</u> Resolutions 2017-8 and 2017-9 is required for the application to PENNDOT for Pedestrian Flashers at Butler and York and Butler and Cavalier

The following business will be discussed.

- 1. The Police Department report is attached.
- 2. The Fire Department report will be provided.
- 3. The Community Ambulance is attached.
- 4. The Public Works and the Code Enforcement reports were received.
- 5. The US Army Corps of Engineers will be hosting workshops given by the National Nonstructural/Flood Proofing Committee. Workshops are scheduled for June 22nd (6:30-9:30 p.m.) and June 24th (1:00-4:00 p.m.) at the Daniel Dowling Legion Post, 351 Maple Street. Representatives from the Army Corps, FEMA, PEMA, EPA and Montgomery County will be in attendance to answer questions. (attached)
- 6. The Highway Supervisor is putting a plan in place to begin changing Borough street lights to LED.
- 7. CDBG Grant Request Preliminary Update. Montgomery County Commissioners are recommending in their 2017 annual action plan allocation for the municipal application for CDBG grant funds for Ambler Borough in the amount of \$64,339 for municipal building public restrooms in the gym wing. [The Borough's grant request was for \$70,425 from the County, with Borough matching funds of \$10,564 and a total project cost of \$80,989.]

RESOLUTION 2017-08

BE IT RESOLVED, by authority of the B	oro	igh Council		
,-		(Name	e of governing body)	
of the Borough of Ambler (Name of MUNICIPALITY)		Montgome	ry	County, and it
is hereby resolved by authority of the same, that the	e		Borough Manag	
		(6	designate official title	e)
of said MUNICIPALITY is authorized and directed	l to	submit the at	tached Applicatio	on for Traffic
Signal Approval to the Pennsylvania Department of the MUNICIPALITY.	f Tra	ansportation a	and to sign this A	pplication on behalf of
ATTEST:	Во	rough of Am	bler	
		(N	ame of MUNICIPAL	LITY)
(Signature and designation of official title)	Ву	(Signa	nture and designation	- F - 65 - 1 - 1 - 1 - 1
I, Salvatore Pasceri				
(Name)	-	President of i	he Borough Cour (Official Title)	
(/			(Official Title)	
of the Ambler Borough Council (Name of governing body and MUNICIPA	LIT	Y) ,	do hereby certify	that the foregoing
is a true and correct copy of the Resolution adopted	at a	regular meet	ing of the	
Borough Council (Name of governing body)	, he	ld the	day of	, 20
DATE:	+	/¢:	and daily 1 2	CC
		(Signature	and designation of c	ifficial title)

RESOLUTION 2017-09

BE IT RESOLVED, by authority of the	Borough Council		
		overning body)	
of the Borough of Ambler (Name of MUNICIPALITY)	• Montgomery		County, and it
is hereby resolved by authority of the same, that		ough Manager	
	_	ate official title)	
of said MUNICIPALITY is authorized and direct	ted to submit the attache	d Application f	or Traffic
Signal Approval to the Pennsylvania Department the MUNICIPALITY.	of Transportation and to	o sign this Appl	ication on behalf of
ATTEST:	Borough of Ambler		
	(Name o	of MUNICIPALIT	Y)
-	Ву:		
(Signature and designation of official title)	(Signature a	nd designation of	official title)
I, Salvatore Pasceri	· President of the B	orough Council	
(Name)		(Official Title)	
of the Ambler Borough Council (Name of governing body and MUNICI)	, do h	ereby certify tha	at the foregoing
is a true and correct copy of the Resolution adopte	d at a regular meeting o	f the	
Borough Council (Name of governing body)	_, held the da	y of	, 20
DATE:	(Signature 22 d	esignation of offici	120
	O Due amplement	iolito to nomengles	iai title)



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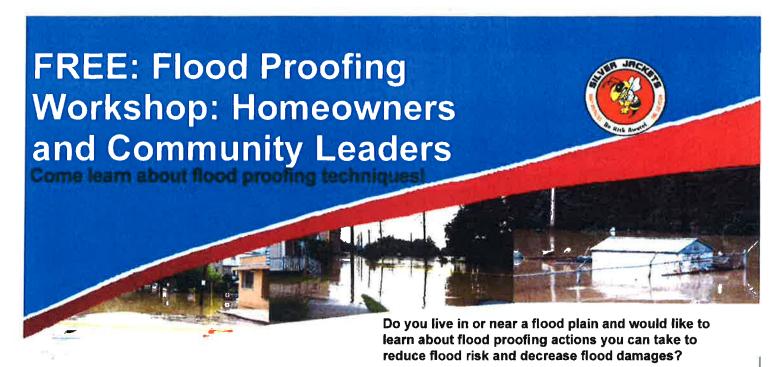
EMAIL: info@amblerambulance.org

BUSINESS:(215)-643-6517 FAX:(215)-643-5212

Ambler Borough Statistics - 2017

<u>Month</u>	Calls in Borough	Total Calls for CAAA
January	52	210
February	55	208
March	34	222
April	63	241
May	60	252
June		
July		
August		
September		
October		
November		
December		
YTD Totals	264	1,133

Serving Ambler Bozough, Lower Groynedd Township and Portions of Upper Dublin Township Since 1941



This is your chance to participate in a presentation presented by the USACE National Nonstructural Flood Proofing Committee on different types of nonstructural flood proofing techniques. The first hour of the event will include a flood proofing discussion on topics such as elevating buildings, wet and dry flood proofing, and relocation/acquisition. The second hour will consist of an open house where you can learn about federal and state programs that may be available to assist you and your community with flood proofing.

Federal and state agency representatives will be on hand to discuss other floodplain management topics, such as the National Flood Insurance Program, Community Rating System, and flood forecasts and warnings.

Event Information

Thursday: When: Saturday:

> June 22, 2017 6:30-9:30 p.m. June 24, 2017 1:00-4:00 p.m.

Location: **Daniel Dowling Legion Post**

351 Maple Street

Ambler PA 19002

Certified floodplain managers will receive credit for attending.

Daniel Dowling Legion Post

351 Maple Street

Ambler PA 19002

This event is free but attendance is limited. To reserve a seat, please register at:

https://www.eventbrite.com/e/flood-proofing-workshop-saturday-session-tickets-34153862121 https://www.eventbrite.com/e/flood-proofing-workshop-thursday-session-tickets-34153378675

For more information on flood proofing please visit the National Nonstructural Flood Proofing Committee Website: http://www.usace.army.mil/Missions/CivilWorks/ProjectPlanning/nfpc.aspx

Questions about the Workshop?

Credit:

Contact Eric Majusiak, U.S. Army Corps of Engineers, at (215) 656-6550 or Eric.T.Majusiak@usace.army.mil

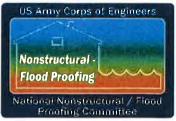
American with Disabilities Act (ADA) Information: The meeting site is accessible to persons with disabilities. Reasonable accommodations for people with disabilities are available upon request to Eric Majusiak at (215) 656-6550 before June 1.











Nonstructural Flood Proofing Workshops in Montgomery County PA – 2017 Agenda

TURSDAY June 22, 2017: 6:30-9:30 p.m.

6:30-6:40	Introduction
	(Eric Majusiak, USACE)

6:40-7:40 Nonstructural Flood Proofing Techniques (Randy Behm and Steve O'Leary, USACE National Nonstructural Flood Proofing Committee (NFPC))

7:40-7:50 Break

7:50-8:10	FEMA/PEMA Mitigation Programs
	(Tom Hughes, PEMA)

8:10-8:25 USACE Programs (Regina Kukola, USACE).

8:25-8:45 EPA Green Infrastructure (Kenneth Hendrickson, EPA)

8:45-9:00 Montgomery County Programs (Drew Shaw, Montgomery County)

9:00-9:30 Agency representatives will be available to answer questions.

SATURDAY June 24, 2017: 1:00-4:00 p.m.

1:00-1:10 Introduction (Eric Majusiak, USACE)

1:10-2:10 Nonstructural Flood Proofing Techniques (Randy Behm and Steve O'Leary, USACE National Nonstructural Flood Proofing Committee (NFPC))

2:10-2:20 Break
2:20-2:40 FEMA/PEMA Mitigation Programs (Tom Hughes, PEMA)
2:40-3:00 USACE Programs (Regina Kukola, USACE).
3:00-3:20 EPA Green Infrastructure (Kenneth Hendrickson, EPA))
3:20-4:00 Agency representatives will be available to answer questions.

Public Utilities Committee

The Committee Meeting was held June 6, 2017 at 7:00 p.m. in Borough Council Chambers located at 131 Rosemary Avenue. Committee Members: Claudio Zaccone (Chair), Sal Pasceri, Edward Curtis. Absent: Mr. Curtis

The Committee will consider the following recommendation.

1. Quotes are being obtained to pave the driveways at Borough Wells. A recommendation is requested to award to Iannuzzi Construction Company, Well 11 Paving, in the amount of \$13,980.00. The project was budgeted.

Recommended at the Committee Meeting.

1. Quotes were obtained for the Electric Service at Borough Facilities, a recommendation authorizing the contract was approved. (8-Aye)

The following business will be discussed.

1. The Engineer's report was received.

Finance and Planning Committee

The Committee Meeting was held June 6, 2017 at 7:00 p.m. in Borough Council Chambers located at 131 Rosemary Avenue. Committee Members: Jonathan Sheward (Chair), Frank DeRuosi and Francine Tomlinson. Absent: Mr. Curtis The Committee will consider the following recommendations.

1. That the May 2017 invoices be paid as follows:

	That the May 2	OI / invoices be	paid as follows	5.
#	Fund	MAY 1ST RUN	MAY 2ND RUN	TOTALS
1	GENERAL	\$102,347.67	\$ 16,082.16	\$118,429.83
2	STREET LGTS	\$801.89	\$ 5,254.65	\$6,056.54
3	FIRE			\$0.00
4	REFUSE	\$29,861.43	\$15,176.77	\$45,038.20
5	PARKS & REC	\$7,450.20	\$4,557.61	\$12,007.81
6	WATER	\$79,686.58	\$79,899.12	\$159,585.70
8	SEWER	\$182,078.46	\$4,919.92	\$186,998.38
9	WWTP	\$112,533.18	\$95,736.53	\$208,269.71
23	DEBT FUND			\$0.00
30	WATER CAPITAL	\$9,465.08	\$ 8,738.30	\$18,203.38
35	LIQUID FUELS	\$1,668.94	\$ 263.15	\$1,932.09
	TOTALS	\$525,893.43	\$230,628.21	\$756,521.64
	VOID CHECKS	\$0.00		\$0.00
(GRAND TOTAL	\$ 525,893.43	\$ 230,628.21	\$ 756,521.64

- Montgomery County has created a new model ordinance intended to achieve continuing compliance with Act 167 and to remain compliant with law. Title 26, Part 4 of the codified ordinances, will include a new Part 4 to be called the Ambler Borough Stormwater Management Ordinance. (attached)
- 3. Attached is a Resolution for Consideration requesting more information on the premiums charged and how the rates, premiums and other charges are determined. Direction is requested from the Committee.
- 4. A recommendation is requested to hire Cohen Law Group to negotiate the Comcast franchise agreement.

The following business will be discussed.

- 1. The Borough Engineer's report was received.
- 2. The Borough audited financials were received. Jeff Weiss was at the meeting to answer any questions from Council.
- 3. Representatives from Alliance Bernstein and Joe Duda, Actuarial will be at the Council meeting to provide an update on the Borough Pension Plans.

Mary Aversa

From: Jim Dougherty < JDOUGHERTY@gilmore-assoc.com>

Sent: Friday, June 16, 2017 1:31 PM

To: Joseph E. Bresnan

Cc: Claudio Zaccone (czaccone@borough.ambler.pa.us); Ed Curtis

(ecurtis@borough.ambler.pa.us); fderuosi@borough.ambler.pa.us; Francine Tomlinson

(fmtomlinson@gmail.com); Jeanne Sorg (jsorg@borough.ambler.pa.us); jsheward@borough.ambler.pa.us; maversa@borough.ambler.pa.us;

ndeininger@borough.ambler.pa.us; Sal Pasceri (spasceri@borough.ambler.pa.us);

smccormick@borough.ambler.pa.us; Sara Hertz

Subject: RE: FW: Ambler, Stormwater Ordinance

Joe,

Here is language from Act 162:

Section 402. Potential Pollution .-- * * *

- (C) (1) For persons proposing or conducting earth disturbance activities when the activity requires a National Pollutant Discharge Elimination System permit for storm water discharge under 25 PA. CODE CH. 102 (relating to erosion and sediment control), the person may use or install either:
- (I) a riparian buffer or riparian forest buffer; or
- (II) another option or options among available best management practices, design standards and alternatives that collectively are substantially equivalent to a riparian buffer or riparian forest buffer in effectiveness, to minimize the potential for accelerated erosion and sedimentation and to protect, maintain, reclaim and restore water quality and for existing and designated uses of a perennial or intermittent river, stream or creek or lake, pond or reservoir of this Commonwealth to ensure compliance with 25 Pa. Code Ch.93 (relating to water quality standards)

I think we can add similar, but less complex, language to the Ambler stormwater ordinance to allow best management practices (BMPs) demonstrated to be "substantially equivalent" to a riparian buffer as an alternative to the 10 ft riparian buffer required to be included in the Ambler Ordinance. The Chapter 102 and Act 162 requirements include provisions to demonstrate sediment, nutrient, and pollutant removal. I think that is not required for Ambler's ordinance. The riparian buffer and any alternative BMPs need only reduce volume of runoff without getting into the details of pollutant reductions and water quality.

If agreeable I can draft language to run by Drew Shaw before we modify the draft ordinance.

Thanks, Jim



James P. Dougherty, P.E., Senior Project Manager Gilmore & Associates, Inc.

65 E. Butler Avenue, Suite 100, New Britain, PA 18901

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From: Joseph E. Bresnan [mailto:jbresnan@dischellbartle.com]

Sent: Wednesday, June 07, 2017 9:32 AM

To: Shaw, Drew

Cc: JDOUGHERTY@gilmore-assoc.com; Mary Aversa (maversa@borough.ambler.pa.us)

Subject: Ambler, Stormwater Ordinance

Drew,

I am writing to inquire about the extent to which modifications can be made to the model stormwater ordinance without taking the Borough out of compliance with the Act.

Section 407 requires the creation of a riparian buffer on either side of a stream bed when regulated activity is undertaken as defined elsewhere in the ordinance.

Unrelated to this model ordinance, last year Borough Council decided after considerable debate and multiple meetings *not* to adopt an ordinance which had been proposed by the Environmental Advisory Council and which also had a requirement that a buffer zone be created whenever certain development activity was undertaken on the parcel (basically, triggered by anything that amounted to land development or the placement of a shed or structure within the identified zone). Council felt that even if it did not legally amount to a "taking", it was effectively a taking in that a triggering development event in practical terms caused the homeowner to lose the use of a portion of the property. Therefore, there is a high level of sensitivity in the Borough to any language of a similar nature. One citizen objected to the language and at least some of Council agreed with his concern. I said I would look into whether the buffer zone language could be stricken without penalty or negative consequence.

I would appreciate your thoughts.

UNOFFICIAL COPY

ACT 162 of 2014

The General Assembly of the Commonwealth of Pennsylvania hereby enacts as follows:

Section 1. Section 402 of the act of June 22, 1937 (P.L.1987, No.394), known as The Clean Streams Law, is amended by adding a subsection to read:

Section 402. Potential Pollution .-- * * *

- (C) (1) For persons proposing or conducting earth disturbance activities when the activity requires a National Pollutant Discharge Elimination System permit for storm water discharge under 25 PA. CODE CH. 102 (relating to erosion and sediment control), the person may use or install either:
 - (I) a riparian buffer or riparian forest buffer; or
- (II) another option or options among available best management practices, design standards and alternatives that collectively are substantially equivalent to a riparian buffer or riparian forest buffer in effectiveness, to minimize the potential for accelerated erosion and sedimentation and to protect, maintain, reclaim and restore water quality and for existing and designated uses of a perennial or intermittent river, stream or creek or lake, pond or reservoir of this Commonwealth to ensure compliance with 25 Pa. Code Ch.93 (relating to water quality standards).
- (2) A project located in a special protection watershed in a drainage list specified in 25 PA CODE § 93.9 (relating to designated water uses and water quality criteria) that proposes any earth disturbance within 100 feet of a surface water shall offset any reduction in the total square footage of the buffer zone that would have been utilized as a best management practice, with a replacement buffer elsewhere along special protection waters in the same drainage list and as close as feasible to the area of disturbance at a ratio of one-to-one. Any project incorporating such an alternative shall also include other best management practices to manage postconstruction stormwater to protect, maintain, reclaim and restore water quality and existing and designated uses of waters of this Commonwealth. Replacement planting costs shall be calculated using department guidance as specified in BMP 6.7.1: Riparian Buffer Restoration of the Pennsylvania Stormwater Best Management Practice

Manual.

Section 2. Any and all regulations are abrogated to the extent of any inconsistency with this act.

Section 3. This act shall take effect in 60 days.

DEPARTMENT OF ENVIRONMENTAL PROTECTION Bureau of Waterways Engineering and Wetlands

DOCUMENT NUMBER: 310-2135-002

TITLE: Riparian Buffer or Riparian Forest Buffer Equivalency Demonstration

EFFECTIVE DATE: March 21, 2015

AUTHORITY: The Pennsylvania Clean Stream Law, as amended by Act 162 of 2014,

35 P.S. §§ 691.1—691.1001, and regulations at 25 Pa. Code

Chapters 92(a), 93, 96 and 102.

POLICY: This policy provides guidance and procedures for meeting the

requirements of Act 162 of 2014 as it relates to the riparian buffer or riparian forest buffer equivalency demonstration as required in 35 P.S.

§ 691.402(c)(1).

PURPOSE: This guidance outlines the equivalency demonstration criteria and process

related to the riparian buffer or riparian forest buffer equivalency demonstration required by Act 162 at 35 P.S. § 691.402(c)(1).

APPLICABILITY: This guidance applies to applicants for individual National Pollutant

Discharge Elimination System (NPDES) permits for stormwater discharges associated with construction activities who proceed under 35 P.S. § 691.402(c)(1)(ii) in utilizing alternatives to riparian buffer best management practices (BMPs) to address runoff from their project.

DISCLAIMER: The policies and procedures outlined in this guidance document are

intended to supplement existing requirements. Nothing in the policies or

procedures shall affect regulatory requirements.

The policies and procedures herein are not an adjudication or a regulation. There is no intent on the part of DEP to give these rules that weight or deference. This document establishes the framework within which DEP will exercise its administrative discretion in the future. DEP reserves the discretion to deviate from this policy statement if circumstances warrant.

PAGE LENGTH: 13 pages

1. INTRODUCTION

Land development activities that change the surface features of land may alter stormwater runoff characteristics. Unmanaged changes in stormwater runoff volume, rate and water quality resulting from land development activities can constitute potential pollution that is regulated under the federal Clean Water Act and the Pennsylvania Clean Streams Law because such changes can alter the chemical, physical or biological properties of receiving waters.

Pennsylvania regulations found in 25 Pa. Code Chapter 102 (relating to erosion and sediment control) specify that such land development should be designed and best management practices (BMPs) should be implemented that mimic the natural systems in place prior to the development activity. Additionally, Chapter 102 specifies when permits may be required.

Erosion and sediment control and post construction stormwater management are addressed under several permitting programs administered by the Department (DEP) under the Chapter 102 regulations including: the National Pollution Discharge Elimination System (NPDES) Permit for stormwater discharges associated with construction activities (construction), the Erosion and Sediment Control General Permit for oil and gas activities (ESCGP), and the Erosion and Sediment Control Permit (E&S permit) for timber harvesting and road maintenance. These permits utilize narrative based effluent limitations in the form of BMPs to achieve the regulatory standard of preventing pollution. BMPs used to manage runoff changes - from land disturbance and increases in impervious area - in stormwater runoff volume, rate and quality must protect, maintain, and restore water uses for all surface waters.

For an earth disturbance activity that requires a permit under 25 Pa. Code Chapter 102, where a receiving surface water of this Commonwealth is classified as High Quality (HQ) or Exceptional Value (EV) under 25 Pa. Code Chapter 93, the person proposing the earth disturbance activity is required to use "nondischarge alternative" BMPs for both the Erosion and Sedimentation (E&S) (25 Pa. Code § 102.4(b)(6)) and Post Construction Stormwater Management (PCSM) BMPs (25 Pa. Code § 102.8(h)). If nondischarge alternatives do not exist for the project, the person must use Antidegradation Best Available Combination of Technologies (ABACT) BMPs and assure that any discharge maintains and protects the existing quality of receiving surface waters and protects existing baseflow.

A riparian buffer is a BMP that is an area of permanent vegetation along waterbodies that is left undisturbed to allow for natural succession of native vegetation. A riparian buffer may consist of grasses and forbs, or a combination of vegetation types to include grasses, forbs, shrubs and trees. A riparian forest buffer is a specialized type of riparian buffer consisting of permanent vegetation that is predominantly native trees and shrubs that provide at least 60% uniform canopy cover. Riparian forest buffers must be maintained in a natural state or sustainably managed to protect and enhance water quality, stabilize stream channels and banks, and separate land use activities from surface waters. Riparian forest buffers can be in place as newly established or existing, where protection is critical (Riparian Forest Buffer Guidance).

Specifically, Pennsylvania regulations at 25 Pa. Code Chapter 102.14(a)(1) (relating to erosion and sediment control) specify that "persons proposing or conducting earth disturbance activities when the activity requires a permit under this chapter may not conduct earth disturbance activities within 150 feet of a perennial or intermittent river, stream, or creek, or lake, pond or reservoir when the project site is located in an exceptional value or high quality watershed

attaining its designated use as listed by the Department at the time of application and shall protect any existing riparian buffer in accordance with this section."

Further, Chapter 102.14(a)(2) states that persons proposing or conducting earth disturbance activities when the activity requires a permit under this chapter where the project site is located in an exceptional value (EV) or high quality (HQ) watershed where there are waters failing to attain one or more designated uses as listed in Category 4 or 5 on Pennsylvania's Integrated Water Quality Monitoring and Assessment Report (as amended and updated) at the time of the application, and the project site contains, is along or within 150 feet of a perennial or intermittent river, stream, or creek, lake, pond or reservoir shall, in accordance with the requirements of the section, do one of the following:

- (i) Protect an existing riparian forest buffer.
- (ii) Convert an existing riparian buffer to a riparian forest buffer.
- (iii) Establish a new riparian forest buffer.

The 2010 amendments to Chapter 102 established riparian forest buffer BMPs as the only BMP that is afforded the antidegradation presumption under 25 Pa. Code § 102.14(e)(1). The antidegradation presumption specifies that a properly installed and maintained riparian forest buffer functions as a non-discharge alternative and also functions to prevent thermal impacts. This presumption, along with a technically sound designed, implemented and maintained post construction stormwater management plan, affords a high level of water quality protection to the special protection waters to which this guidance applies, and therefore a bright line for applicants implementing antidegradation requirements in these waters. Riparian forest buffers are complex ecosystems that help provide nutrients and habitat for stream communities as well as mitigate or control point and nonpoint source pollution by both keeping pollutants out of waterways and increasing the level of instream pollution processing. Scientific literature supports the riparian forest buffer (with stormwater entering the buffer as sheet flow or shallow concentrated flow) as the only best management practice that can do all of the following: capture and hold stormwater runoff from the majority of Pennsylvania storms in a given year; infiltrate most of that water and/or transport it as shallow flow through the forest buffer soils where contaminant uptake and processing occurs; release excess storm flow evenly, further processing dissolved and particulate substances associated with it; sequester carbon at significant levels; improve the health of the stream; and increase the stream's capacity to process organic matter and nutrients generated on the site or upstream of the site. Because riparian forest buffers protect surface waters from the effects of runoff by providing filtration of pollutants, bank stability, groundwater recharge, rate/attenuation and volume reduction, credit may be granted when stormwater is effectively treated by an existing riparian forest buffer (including in the post development condition), that is predominantly native trees and shrubs that provide at least 60% uniform canopy cover. Because riparian forest buffers are the only BMP that can provide such an exceptionally high level of water use protection and ecosystem function, projects that implement them according to regulation and guidance are afforded the antidegradation presumption as detailed in Chapter 102.

Act 162, signed into law on October 22, 2014 and effective for implementation on December 21, 2014, amends the Pennsylvania Clean Streams Law (35 P.S. §§ 691.1—691.1001). Section 402(c)(1) of the Act provides that for persons proposing or conducting earth disturbance activities when the activity requires a National Pollutant Discharge Elimination System Permit

for storm water discharge under 25 Pa. Code Chapter 102 (relating to erosion and sediment control), the person may use or install either: 1) a riparian buffer or riparian forest buffer; or 2) another option or options among best management practices, design standards and alternatives that collectively are substantially equivalent to a riparian buffer or riparian forest buffer in effectiveness to minimize the potential for accelerated erosion and sedimentation and to protect, maintain, reclaim and restore water quality; and for existing and designated uses of a perennial or intermittent river, stream, creek, lake pond or reservoir to ensure compliance with 25 Pa. Code Chapter 93 (relating to water quality standards). Act 162 allows applicants with projects within 150 feet of special protection waters flexibility in addressing the mandatory riparian buffer requirements given in Chapter 102.14.

This technical guidance outlines the equivalency demonstration and process related to the riparian buffer or riparian forest buffer equivalency demonstration required by Act 162 Section 402(c)(1). If the applicant chooses not to implement a riparian forest buffer, the applicant does not benefit from the antidegradation presumption. No waivers of the equivalency requirement are provided. The equivalency demonstration will be reviewed as part of the individual NPDES application review process and not independent from that review.

In addition, if an earth disturbance activity is proposed within 100 feet of a surface water as defined by Chapter 102, under Section 402(c)(2), any earth disturbance within the riparian buffer or riparian forest buffer will have to be offset in accordance with Act 162. No waivers of the offsetting requirement are provided. Guidance for offsetting is addressed in DEP's Riparian Buffer and Riparian Forest Buffer Offsetting guidance document (310-2135-003). Examples of when the equivalency demonstration and offsetting are not required, when only the equivalency demonstration is required, and when both the equivalency demonstration and offsetting are required are shown in Figures 1 through 3, respectively.

Disturbance

150' buffer

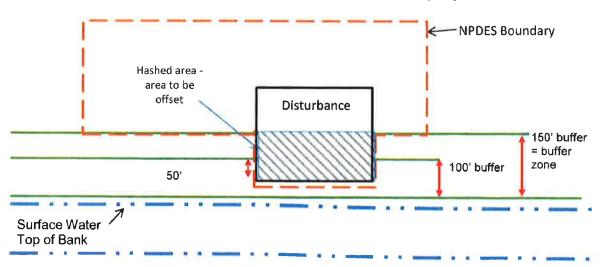
Surface Water

Top of Bank

Figure 1. Equivalency demonstration and offsetting not required

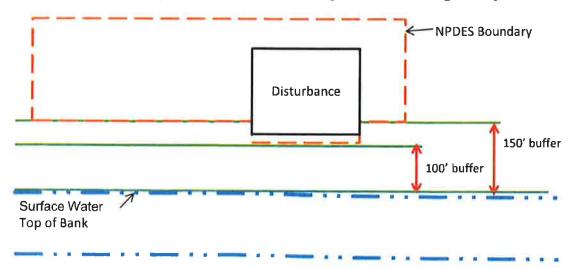
In this example, the project involves one acre or greater of earth disturbance and requires an NPDES stormwater construction permit. The applicant has chosen to keep the NPDES project boundary and the limit of disturbance both outside of the 150 feet closest to the stream. Because of this choice, neither offsetting nor an equivalency demonstration is required.

Figure 2. Both equivalency demonstration and offsetting required



In this example, the project involves one acre or greater of earth disturbance and requires an individual NPDES stormwater construction permit. The applicant has chosen to conduct earth disturbance within 50 feet of the surface water. In this case, both the demonstration of equivalency and the offsetting must be completed as part of the NPDES application. The area that is hashed in the diagram is that area that must be offset, either onsite or offsite, at a ratio of 1 to 1.

Figure 3. Equivalency demonstration required but offsetting not required



In this example, the project involves greater than or equal to one acre of earth disturbance and requires an individual NPDES stormwater construction permits. The applicant has chosen to conduct earth disturbance between 150 and 100 feet of the surface water. In this case, only the demonstration of equivalency must be completed as part of the NPDES permit application. Offsetting is not required.

2. **DEFINITIONS**

The words and terms in this policy, unless defined herein, have the meanings as identified in the Pennsylvania Clean Stream Law, as amended by Act 162 of 2014, 35 P.S. §§ 691.1—691.1001, and regulations at 25 Pa. Code Chapters 92(a), 93, 96 and 102, as applicable.

Act 162 - Amends Section 402 of the act of June 22, 1937 (P.L. 1987, No. 392), known as The Clean Streams Law.

Applicant - A person who applies for a permit. (See also "Permittee" definition)

BMPs - Best management practices - Activities, facilities, measures, planning or procedures used to minimize accelerated erosion and sedimentation and manage stormwater to protect, maintain, reclaim, and restore the quality of waters and the existing and designated uses of waters within this Commonwealth before, during, and after earth disturbance activities. (25 Pa. Code § 102.1)

Conservation District - A conservation district, as defined in Section 3(c) of The Conservation District Law (3 P.S. Section 851(c), as amended) that has the authority under a delegation agreement executed with the Department to administer and enforce all or a portion of the erosion, sediment, and stormwater management program in the Commonwealth. (25 Pa. Code § 102.1)

DEP - The Department of Environmental Protection of this Commonwealth.

Designated uses - Those uses specified in 25 Pa. Code §§ 93.4(a) and 93.9a-93.9z for each water body or segment whether or not they are being attained. (25 Pa. Code § 93.1)

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. (25 Pa. Code § 102.1)

Exceptional Value (EV) Waters - Surface waters of high quality which satisfy § 93.4b(b) (relating to antidegradation). (25 *Pa. Code* § 93.1)

High Quality (HQ) Waters - Surface waters having quality which exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water by satisfying § 93.4b(a). (25 Pa. Code § 93.1)

National Pollutant Discharge Elimination System Permit for Stormwater Discharges Associated with Construction Activities (NPDES Permit) - A permit required for the discharge or potential discharge of stormwater into waters of this Commonwealth from construction activities, including clearing and grubbing, grading and excavation activities involving 1 acre (0.4 hectare) or more of earth disturbance activity or an earth disturbance activity on any portion, part, or during any stage of, a larger common plan of development or sale that involves 1 acre

(0.4 hectare) or more of earth disturbance activity over the life of the project. (25 Pa. Code § 102.1)

NPDES Permit application - A request, on a form provided by DEP, for coverage under an Individual NPDES Permit.

NPDES - National Pollutant Discharge Elimination System.

PCSM - Post construction stormwater management. (25 Pa. Code § 102.1)

PCSM plan - A site-specific plan consisting of both drawings and a narrative that identifies BMPs to manage changes in stormwater runoff volume, rate and water quality after earth disturbance activities have ended and the project site is permanently stabilized. (25 Pa. Code § 102.1)

Permittee - Person who holds a permit (or stormwater discharge activity which may be either general or individual).

Pollutant - Any contaminant or other alteration of the physical, chemical, biological or radiological integrity of surface water which causes or has the potential to cause pollution as defined in Section 1 of The Clean Streams Law (35 P.S. § 691.1). (25 Pa. Code §§ 102.1, 96.1 and 92a.1)

Post construction stormwater - Stormwater associated with a project site after the earth disturbance activity has been completed and the project site is permanently stabilized. (25 Pa. Code § 102.1)

Project site - The entire area of activity, development, lease or sale including:

- (1) The area of an earth disturbance activity.
- (2) The area planned for an earth disturbance activity.
- (3) Other areas which are not subject to an earth disturbance activity. (25 Pa. Code § 102.1)

Replacement buffer - A newly established or installed riparian forest buffer located along special protection waters, in the same drainage list and as close as feasible to the area of disturbance that compensates for disturbance within 100 feet of the special protection surface water at a ratio of one to one.

Riparian buffer - A BMP that is an area of permanent vegetation along surface waters. (25 Pa. Code § 102.1)

Riparian forest buffer - A type of riparian buffer that consists of permanent vegetation that is predominantly native trees, shrubs and forbs along surface waters that is maintained in a natural state or sustainably managed to protect and enhance water quality, stabilize stream channels and banks, and separate land use activities from surface waters. (25 *Pa. Code* § 102.1)

Special Protection Waters - Water uses which shall be protected, and upon which the development of water quality criteria shall be based, are set forth, as High Quality Waters (HQ) and Exceptional Value (EV) Waters in § 93.3, Protected water uses.

Stormwater - Runoff from precipitation, snowmelt, surface runoff and drainage. (25 Pa. Code § 102.1)

Surface waters - Perennial and intermittent streams, rivers, lakes, reservoirs, ponds, wetlands, springs, natural seeps, and estuaries, excluding water at facilities approved for wastewater treatment such as wastewater treatment impoundments, cooling water ponds, and constructed wetlands used as part of a wastewater treatment process. (25 Pa. Code §§ 102.1, 93.1,96.1 and 92a.1)

3. GUIDANCE AND APPLICATION

a. Projects for Which the Riparian Buffer/Riparian Forest Buffer Equivalency Demonstration Applies

The scope of the projects to which Act 162 applies is narrow. In Section 402(c)(1), the scope of the amendment is limited to projects that require an NPDES permit under 25 Pa. Code Chapter 102. The NPDES permit required under Chapter 102 is the NPDES Permit for Stormwater Discharges Associated with Construction Activities (NPDES Stormwater Construction). Section 402(c)(1) provides that applicants may utilize either riparian buffers, riparian forest buffers or alternative BMPs. Section 402(c)(1)(ii) in turn sets out requirements for the alternative BMPS, providing they must be equivalent to a riparian buffer or riparian forest buffer in function. Because the underlying Chapter 102 requirements relate to riparian buffers and riparian forest buffers provide that such buffers are mandatory only for certain projects in special protection waters, the equivalency demonstration provided in Section 402(c)(1) applies to projects requiring an individual NPDES permit in a designated special protection watershed that propose any earth disturbance within 150 feet of a river, stream, creek, lake, pond or reservoir. Under Pennsylvania's NPDES regulations, all NPDES permitted projects that drain to special protection waters must obtain an individual NPDES construction stormwater permit. Therefore, according to the construction of Act 162 and regulatory requirements in 25 Pa. Code § 102.14, Act 162 is in effect, limited in scope to only those individual NPDES construction stormwater permits which involve earth disturbance activities within 150 feet of a designated special protection river, stream, creek, lake, pond or reservoir.

Act 162 and the regulatory requirements in 25 Pa. Code § 102.14 when read together, provide that general NPDES stormwater construction permits and the E&S control permit for timber harvesting and road maintenance activities (E&S Permit) and the E&S Control General Permit for Earth Disturbance Associated with Oil and Gas Exploration, Production, Processing, or Treatment Operations or Transmission Facilities (ESCGP-2) are not covered by Act 162.

As a threshold matter, it is important to note that Act 162 did not otherwise modify the regulatory language in 25 Pa. Code § 102, but rather allowed for alternatives to demonstrate regulatory compliance. Therefore, the trigger for the riparian buffer requirements - and projects to which the Act is applicable - remains earth disturbance activities within 150 feet of a special protection river, stream, creek, lake, pond or reservoir.

b. Application Requirements

Applicants will need to choose if they will be implementing a 150 foot buffer area or if they will be making a demonstration of equivalency. If the applicant chooses to make the demonstration of equivalency, Worksheets 12, 13, 14 and 15 and a corresponding narrative should be completed and accompany the individual NPDES Permit application. Note that the equivalency demonstration is separate and supplemental to the requirements of 25 Pa. Code § 102.8 regarding post construction stormwater management. While a pre-application meeting is not required for permit issuance, it is highly recommended with projects containing riparian buffers to allow for clear communication between applicants and DEP. In addition, it is not mandatory that applicants follow the process outlined in this guidance; however, DEP recommends following this guidance in order to successfully demonstrate compliance with the requirements. Additionally, all other application completeness items must be satisfied or the permit may be denied.

In addition to the equivalency demonstration, if the project proposes earth disturbance within 100 feet of the surface water, then an offset will be required. In these circumstances, in addition to the equivalency demonstration, applicant will also need to fulfill the offsetting requirements. Guidance on the offsetting requirements can be obtained in the *Riparian Buffer and Riparian Buffer Offsetting* guidance document (310-2135-003).

The recommended steps to follow for completing an application are included below and example calculations are shown in Appendix A:

- **Step 1:** Estimate pollutant load from disturbed areas of the site using Worksheet 12 from the *Pennsylvania Stormwater Best Management Practices Manual*.
- **Step 2:** Calculate the pollutant load reductions with the proposed structural BMPs using Worksheet 13 from the *Pennsylvania Stormwater Best Management Practices Manual*.
- **Step 3:** Using Worksheet 14, estimate the increased pollutant load for the disturbed area within the riparian or riparian forest buffer.
- **Step 4:** Calculate the pollutant load reductions with the proposed structural BMPs using Worksheet 15 from the *Pennsylvania Stormwater Best Management Practices Manual*.

If target load reductions are achieved for total suspended solids (TSS), total phosphorus (TP) and nitrate on Worksheets 13 and 15, then the water quality requirements are met.

Note: Applicants should not use Worksheet 10 when implementing this guidance as nitrate removal will be addressed directly in Worksheets 12 and 13; however, Worksheet 10 is still useful in instances where disturbance to the riparian buffers are not part of the application.

Step 5: If an applicant proposes earth disturbance within a riparian buffer or riparian forest buffer, they should also use the accompanying checklist to demonstrate in their narrative that the proposed BMP(s) utilized in the equivalency demonstration are

functionally equivalent to a riparian buffer or riparian forest buffer. The items in the checklist are specific to functions of the riparian buffer or riparian forest buffer and cannot be made up by the site as a whole but do not have to be implemented exclusively in the 150 foot buffer area. The items on the checklist should be addressed by the functioning BMP(s) and applicants should implement BMP(s) that exemplify all functions for each type of riparian buffer or riparian forest buffer. In addition, a description of how each pertinent function is being implemented through the project should be included in a post construction stormwater narrative. For projects located within 150 feet of an existing riparian forest buffer, applicants should reference the items listed in "Functions and Benefits of Riparian Forest Buffers" as found on pages 15-19 of DEP's document *Riparian Forest Buffer Guidance* (394-5600-001) when writing the explanation of how the proposed BMP addresses the function that the buffer would have otherwise provided if it was not disturbed by the project.

Utilizing the buffer as a BMP is desirable. Choosing to disturb only a portion of the buffer and sending flow during storm events up to and including the 2-year/24-hour storm to the buffer can be utilized as part of the equivalency demonstration. However, a minimum distance of 100 feet between the entry of the stormwater into the riparian buffer (up-gradient of the riparian buffer and as sheet or shallow concentrated flow) and receiving waters is required to use the efficiencies in BMP 6.7.1: Riparian Buffer Restoration of the *Pennsylvania Stormwater Manual*.

Whether the demonstration is for a riparian buffer or riparian forest buffer; a stream analysis inclusive of the above and supported by site reconnaissance, should take into account the various characteristics of the stream and watershed including, but not limited to: stream order, stream slope, stream designation, current condition (i.e. impaired, eroded, etc.), watershed imperviousness, watershed infrastructure (i.e. dams, reservoirs, quarry pits, etc.) and existing and/or proposed discharge points. Proposals to use alternate criteria may be subject to additional evaluation during the permit review and must demonstrate their effectiveness through appropriate analysis. The burden of proof will be on the applicant.

4. MONITORING, INSPECTION AND REPORTING

Monitoring, inspection and reporting requirements remain as found in Chapter 102 at §§ 102.4(b)(5)(x), 102.8(f)(10), 102.8(k) and 102.8(m) and in DEP's Riparian Forest Buffer Guidance (394-5600-001), if applicable. Additionally, monitoring, inspection and reporting requirements will also be found, if approved, in the conditions of the NPDES Permit, Part A - Effluent Limitations, Monitoring, and Reporting Requirements and Part C - Other Conditions.

5. APPENDIX A

An example of the water quality component which should be included in the equivalency demonstration.

Worksheet 14 – Water Quality Analysis of Pollutant Loading from Disturbance in Buffer Area

Total Disturbed Area (AC)	2
Disturbed Area Controlled by BMPs	2
(AC)	

Existing Condition

		Pollut	ant	ļ		Po	Ilutant Lo	oad
Land Cover Classification	TSS EMC (mg/l)	TP EMC (mg/l)	Nitrate- Nitrite EMC (mg/l as N)	Cover (Acres)	Runoff Volume (AF)	TSS** (LBS)	TP** (LBS)	NO ₃
Forest	39	0.15	0.17	2	0.1574	16.58	0.07	0.07
Meadow	47	0.19	0.3					
				тот	AL LOAD	16.58	0.07	0.07

Post-Development

	MCM-11		Pollut	ant			Po	llutant Le	oad
	Land Cover Classification	TSS EMC (mg/l)	TP EMC (mg/l)	Nitrate- Nitrite EMC (mg/I as N)	Cover (Acres)	Runoff Volume (AF)	TSS** (LBS)	TP** (LBS)	NO₃ (LBS)
	Forest	39	0.15	0.17					
ŀ	Meadow	47	0.19	0.3					
s s	Fertilized Planting Area	55	1.34	0.73					
/iou ace	Native Planting Area	55	0.40	0.33					
Pervious Surfaces	Lawn, Low-Input	180	0.40	0.44					
_ ,,	Lawn, High-Input	180	2.22	1.46					
	Golf Course Fairway/Green	305	1.07	1.84					
	Grassed Athletic Field	200	1.07	1.01					
	Rooftop	21	0.13	0.32					
s,	High Traffic Street/Highway	261	0.40	0.83					
rion	Medium Traffic Street	113	0.33	0.58					
Impervious Surfaces	Low Traffic/Residential Street	86	0.36	0.47					
Ēŵ	Res. Driveway, Play Courts, etc.	60	0.46	0.47					
	High Traffic Parking Lot	120	0.39	0.60					
	Low Traffic Parking Lot	58	0.15	0.39	2	0.48	75.89	0.20	0.51
					тот	AL LOAD	75.89	0.20	0.51
				Pollutant Lo	ad increas	e (LBS) =	59.31	0.13	0.44

Pollutant Load increase (LBS) = Post development load - Pre-development load

^{*}Pollutant Load = [EMC, mg/l] X [Volume, AF] X [2.7, Unit Conversion

Worksheet 15 - Pollutant Reduction Through BMP Applications*

*Fill this worksheet out for each BMP type with different pollutant removal efficiencies. Sum pollutant reduction achieved for all BMP types on final sheet.

BMP Type: Capture & Reuse

Disturbed Area Controlled by this BMPs 2
(AC)

Disturbed Area Controlled by this BMPs:

			Polluta	ant]		Pol	utant Lo	ad**
	Land Cover Classification	TSS EMC (mg/l)	TP EMC (mg/l)	Nitrate- Nitrite EMC (mg/l as N)	Cover (Acres)	Runoff Volume (AF)	TSS** (LBS)	TP** (LBS)	NO ₃
	Forest	39	0.15	0.17		***			
	Meadow	47	0.19	0.3					
o o	Fertilized Planting Area	55	1.34	0.73					
rion ace	Native Planting Area	55	0.40	0.33					
Pervious Surfaces	Lawn, Low-Input	180	0.40	0.44					
_ ,,	Lawn, High-Input	180	2.22	1.46					
	Golf Course Fairway/Green	305	1.07	1.84					
	Grassed Athletic Field	200	1.07	1.01					
	Rooftop	21	0.13	0.32					
ø,	High Traffic Street/Highway	261	0.40	0.83					
Impervious Surfaces	Medium Traffic Street	113	0.33	0.58					
oerv urfa	Low Traffic/Residential Street	86	0.36	0.47					
<u>F</u>	Res. Driveway, Play Courts, etc.	60	0.46	0.47					
	High Traffic Parking Lot	120	0.39	0.60					
	Low Traffic Parking Lot	58	0.15	0.39	2	0.48	75.89	0.20	0.51
			-	TOTAL LOAD	TO THIS B	MP TYPE	75.89	0.20	0.51
	POLLUTANT REMOVAL EFFICIENC	IES FROM	APPEND	IX A. STORMV	VATER MA	NUAL (%)	100	100	100
	POLLUTANT	REDUCT	TION ACH	IIEVED BY TH	IS BMP TY	PE (LBS)	75.89	0.20	0.51

POLLUTANT REDUCTION ACHIEVED BY ALL BMP TYPES (LBS)	75.89	0.20	0.51
REQUIRED REDUCTION from WS 14 (LBS)	59.31	0.13	0.44

^{*}Pollutant Load = [EMC, mg/l] X [Volume, AF] X [2.7, Unit Conversion]

Checklist for Functional Equivalency of Riparian Buffers and Riparian Forest Buffers

	Riparian Buffer	Riparian Forest Buffer
Filtration of pollutants in runoff	<u>.</u>	
Infiltration and maintenance of streamflow	a	9
Water quality maintenance	П	
Habitat for wildlife and vegetation		٥
Flood attenuation		
Light control and water temperature moderation	Ü	
Travel corridors for migration and dispersal	0	а
Ice damage control		
Stream width		a
Food supply		
Wood debris input		
Support of aquatic food chains and webs as they relate to terrestrial food webs		a
Channel and shoreline stability/decrease in erosion		a
Reduced effects of storm events		
Instream pollutant processing		0

DEPARTMENT OF ENVIRONMENTAL PROTECTION Bureau of Waterways Engineering and Wetlands

DOCUMENT NUMBER: 310-2135-003

TITLE: Riparian Buffer or Riparian Forest Buffer Offsetting

EFFECTIVE DATE: March 21, 2015

AUTHORITY: The Pennsylvania Clean Streams Law, as amended by Act 162 of 2014

(Act 162), 35 P.S. §§ 691.1—691.1001 and regulations at 25 Pa. Code

Chapters 92(a), 93, 96 and 102.

POLICY: This policy provides guidance and procedures for meeting the

requirements of Act 162 of 2014 as it relates to the riparian buffer or

riparian forest buffer offsetting requirements.

PURPOSE: This guidance outlines the replacement criteria and process related to the

riparian forest buffer offsetting required by Act 162 of 2014.

APPLICABILITY: This guidance applies to applicants for individual National Pollutant

Discharge Elimination Systems (NPDES) permit applications for stormwater discharges associated with construction activities who are

required to proceed under 35 P.S. § 691.402(c)(2).

DISCLAIMER: The policies and procedures outlined in this guidance document are

intended to supplement existing requirements. Nothing in the policies or

procedures shall affect regulatory requirements.

The policies and procedures herein are not an adjudication or a regulation. There is no intent on the part of DEP to give these rules that weight or deference. This document establishes the framework within which DEP will exercise its administrative discretion in the future. DEP reserves the discretion to deviate from this policy statement if circumstances warrant.

PAGE LENGTH: 17 pages

1. INTRODUCTION

Land development activities that change the surface features of land may alter stormwater runoff characteristics. Unmanaged changes in stormwater runoff volume, rate and water quality resulting from land development activities can constitute pollution or potential pollution that is regulated under the federal Clean Water Act and the Pennsylvania Clean Streams Law because such changes can alter the chemical, physical or biological properties of receiving waters.

Pennsylvania regulations found in 25 Pa. Code Chapter 102 (relating to erosion and sediment control) specify that such land development should be designed and best management practices (BMPs) should be implemented that mimic the natural systems in place prior to the development activity. Additionally, Chapter 102 specifies when permits may be required.

Erosion and sediment control and post construction stormwater management are addressed under several permitting programs administered by the Department (DEP) under the 25 Pa. Code Chapters 92a and 102 regulations including: the National Pollutant Discharge Elimination System (NPDES) Permit for stormwater discharges associated with construction activities (construction), the Erosion and Sediment Control General Permit for oil and gas activities (ESCGP), and the Erosion and Sediment Control Permit (E&S permit) for timber harvesting and road maintenance. These permits utilize narrative based effluent limitations in the form of BMPs to achieve the regulatory standard of preventing pollution. BMPs used to manage runoff changes - from land disturbance, land use changes and increases in impervious area - in stormwater runoff volume, rate and quality must protect, maintain, and restore water uses for all surface waters.

For an earth disturbance activity that requires a permit under 25 Pa. Code Chapter 102, where a receiving surface water of this Commonwealth is classified as High Quality (HQ) or Exceptional Value (EV) under 25 Pa. Code Chapter 93, the person proposing the earth disturbance activity is required to use "nondischarge alternative" BMPs for both the Erosion and Sedimentation (E&S) (25 Pa. Code § 102.4(b)(6)) and Post Construction Stormwater Management (PCSM) BMPs (25 Pa. Code § 102.8(h)). If nondischarge alternatives do not exist for the project, the person must use Antidegradation Best Available Combination of Technologies (ABACT) BMPs and assure that any discharge maintains and protects the existing quality of receiving surface waters and protects existing baseflow.

DEP has determined that in certain circumstances, riparian buffer or riparian forest buffer BMPs must also be utilized to satisfy antidegradation requirements. A riparian buffer is a BMP that is an area of permanent vegetation along waterbodies that is left undisturbed to allow for natural succession of native vegetation. A riparian buffer may consist of grasses and forbs, or a combination of vegetation types to include grasses, forbs, shrubs and trees. A riparian forest buffer is a specialized type of riparian buffer consisting of permanent vegetation that is predominantly native trees and shrubs that provide at least 60% uniform canopy cover. Riparian forest buffers must be maintained in a natural state or sustainably managed to protect and enhance water quality, stabilize stream channels and banks, and separate land use activities from surface waters. Riparian forest buffers can be in place as newly established or existing, where protection is critical (Pennsylvania Department of Environmental Protection, 2010).

Specifically, Pennsylvania regulations at 25 Pa. Code Chapter 102.14(a)(1) (relating to erosion and sediment control) specify that "persons proposing or conducting earth disturbance activities

when the activity requires a permit under this chapter may not conduct earth disturbance activities within 150 feet of a perennial or intermittent river, stream, or creek, or lake, pond or reservoir when the project site is located in an exceptional value or high quality watershed attaining its designated use as listed by the Department at the time of application and shall protect any existing riparian buffer in accordance with this section".

Further, Chapter 102.14(a)(2) states that "persons proposing or conducting earth disturbance activities when the activity requires a permit under this chapter where the project site is located in an exceptional value (EV) or high quality (HQ) watershed where there are waters failing to attain one or more designated uses as listed in Category 4 or 5 on Pennsylvania's Integrated Water Quality Monitoring and Assessment Report (as amended and updated) at the time of the application, and the project site contains, is along or within 150 feet of a perennial or intermittent river, stream, or creek, lake, pond or reservoir shall, in accordance with the requirements of the section, do one of the following:

- (i) Protect an existing riparian forest buffer.
- (ii) Convert an existing riparian buffer to a riparian forest buffer.
- (iii) Establish a new riparian forest buffer.

The 2010 amendments to Chapter 102 established riparian forest buffer BMPs as the only BMP that is afforded the antidegradation presumption under 25 Pa. Code § 102.14(e)(1). The antidegradation presumption specifies that a properly installed and maintained riparian forest buffer functions as a non-discharge alternative and also functions to prevent thermal impacts. This presumption, along with a technically sound designed, implemented and maintained post construction stormwater management plan, affords a high level of water quality protection to the special protection waters to which this guidance applies, and therefore a bright line for applicants implementing antidegradation requirements in these waters. Riparian forest buffers are complex ecosystems that help provide nutrients and habitat for stream communities as well as mitigate or control point and nonpoint source pollution by both keeping pollutants out of waterways and increasing the level of instream pollution processing. Scientific literature supports the riparian forest buffer (with stormwater entering the buffer as sheet flow or shallow concentrated flow) as the only best management practice that can do all of the following: capture and hold stormwater runoff from the majority of Pennsylvania storms in a given year; infiltrate most of that water and/or transport it as shallow flow through the forest buffer soils where contaminant uptake and processing occurs; release excess storm flow evenly, further processing dissolved and particulate substances associated with it; sequester carbon at significant levels; improve the health of the stream; and increase the stream's capacity to process organic matter and nutrients generated on the site or upstream of the site. Because riparian forest buffers protect surface waters from the effects of runoff by providing filtration of pollutants, bank stability, groundwater recharge, rate/attenuation and volume reduction, credit may be granted when stormwater is effectively treated by an existing riparian forest buffer (including in the post development condition), that is predominantly native trees and shrubs that provide at least 60% uniform canopy cover. Because riparian forest buffers are the only BMP that can provide such an exceptionally high level of water use protection and ecosystem function, projects that implement them according to regulation and guidance are afforded the antidegradation presumption as detailed in Chapter 102.

Act 162, signed into law on October 22, 2014, and effective for implementation on December 21, 2014, amends the Pennsylvania Clean Stream Law (35 P.S. §§ 691.1—691.1001). Section 402(c)(1) of the Act provides that for persons proposing or conducting earth disturbance activities when the activity requires a National Pollutant Discharge Elimination System Permit for storm water discharge under 25 Pa. Code Chapter 102 (relating to erosion and sediment control), the person may use or install either: 1) a riparian buffer or riparian forest buffer; or 2) another option or options among best management practices, design standards and alternatives that collectively are substantially equivalent to a riparian buffer or riparian forest buffer in effectiveness to minimize the potential for accelerated erosion and sedimentation and to protect, maintain, reclaim and restore water quality; and for existing and designated uses of a perennial or intermittent river, stream, creek, lake pond or reservoir to ensure compliance with 25 Pa. Code Chapter 93 (relating to water quality standards). Practically speaking, Act 162 allows applicants with projects within 150 feet of special protection waters flexibility in dealing with the mandatory riparian buffer requirements given in Chapter 102.14.

This guidance outlines the replacement criteria and process related to riparian forest buffer offsetting required by Section 402(c)(2) of Act 162. Act 162 provides that individual NPDES Permits for Stormwater Discharges Associated with Construction Activities proposing any earth disturbance within 100 feet of a surface water shall offset any reduction in the total square footage of the buffer zone that would have been utilized as a BMP with a replacement riparian forest buffer. This replacement buffer is specified in the Act to be a riparian forest buffer regardless of whether the special protection water is impaired or has a TMDL. That replacement riparian forest buffer must be located along special protection waters, in the same drainage list and as close as feasible to the area of disturbance at a ratio of one to one. Act 162 does not provide for waivers of the offsetting requirement. Figures 1, 2 and 3 show examples of when the equivalency demonstration is required or not and when offsetting is required. Figures 2a and 2b show how sample offsetting calculations are completed. The following policy document addresses the offsetting provision as required by Act 162.

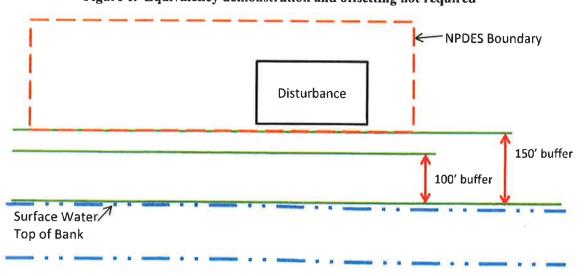


Figure 1. Equivalency demonstration and offsetting not required

In this example, the project involves one acre or greater of earth disturbance and requires an NPDES stormwater construction permit. The applicant has chosen to keep the NPDES project

boundary and the limit of disturbance both outside of the 150 feet closest to the stream. Because of this choice, neither offsetting nor an equivalency demonstration is required.

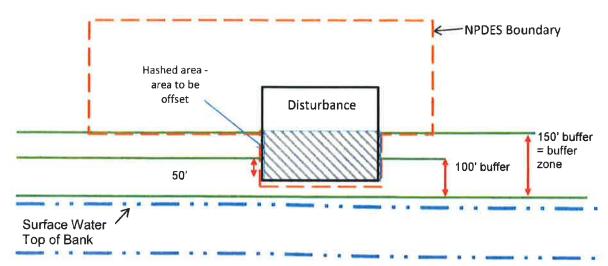


Figure 2. Both equivalency demonstration and offsetting required

In this example, the project involves one acre or greater of earth disturbance and requires an individual NPDES stormwater construction permit. The applicant has chosen to conduct earth disturbance within 50 feet of the surface water. In this case, both the demonstration of equivalency and the offsetting must be completed as part of the NPDES application. The area that is hashed in the diagram is that area that must be offset, either onsite or offsite, at a ratio of 1 to 1.

Contributing
flow area

Replacement
Buffer

Minimum 100' Width

Minimum length is that of the longest
contributing flow area length

Figure 2a. Replacement buffer sample diagram

Figure 2b. Replacement buffer sample diagram

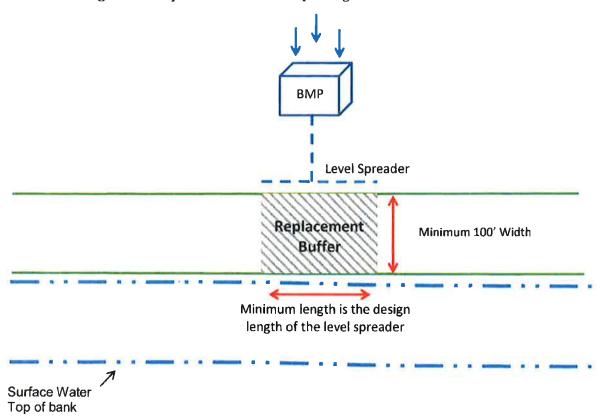
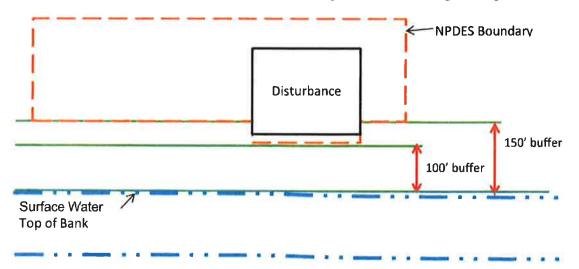


Figure 3. Equivalency demonstration required but offsetting not required



In this example, the project involves greater than or equal to one acre of earth disturbance and requires an individual NPDES stormwater construction permits. The applicant has chosen to

conduct earth disturbance between 150 and 100 feet of the surface water. In this case, only the demonstration of equivalency must be completed as part of the NPDES permit application. Offsetting is not required.

2. **DEFINITIONS**

The words and terms in this policy, unless defined herein, have the meanings as identified in the Pennsylvania Clean Streams Law, as amended by Act 162 of 2014, 35 P.S. §§ 691.1—691.1001, and regulations at 25 Pa. Code Chapters 92(a), 93, 96 and 102, as applicable.

Act 162 of 2014 - An amendment to Section 402 of the Pennsylvania Clean Streams Law (35 P.S. § 691.402) related to Riparian Buffers and Riparian Forest Buffers.

Area of Disturbance - The permitted earth disturbance activity at the project site.

BMPs - Best management practices - Activities, facilities, measures, planning or procedures used to minimize accelerated erosion and sedimentation and manage stormwater to protect, maintain, reclaim, and restore the quality of waters and the existing and designated uses of waters within this Commonwealth before, during, and after earth disturbance activities. (25 Pa. Code § 102.1)

DEP - The Pennsylvania Department of Environmental Protection or Department.

Designated uses - Those uses specified in 25 Pa. Code §§ 93.4(a) and 93.9a-93.9z for each water body or segment whether or not they are being attained. (25 Pa. Code § 93.1)

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. (25 Pa. Code § 102.1)

Exceptional Value (EV) Waters - Surface waters of high quality which satisfy § 93.4b(b) (relating to antidegradation). (25 Pa. Code § 93.1)

High Quality (HQ) Waters - Surface waters having quality which exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water by satisfying § 93.4b(a). (25 Pa. Code § 93.1)

National Pollutant Discharge Elimination System Permit for Stormwater Discharges Associated With Construction Activities (NPDES Permit) - A permit required for the discharge or potential discharge of stormwater into waters of this Commonwealth from construction activities, including clearing and grubbing, grading and excavation activities involving 1 acre (0.4 hectare) or more of earth disturbance activity or an earth disturbance activity on any portion, part, or during any stage of, a larger common plan of development or sale that involves 1 acre (0.4 hectare) or more of earth disturbance activity over the life of the project. (25 Pa. Code § 102.1)

NPDES Permit application - A request, on a form provided by DEP, for coverage under an Individual NPDES Permit.

Offset - To install a replacement riparian forest buffer along special protection waters, in the same drainage list and as close as feasible to the area of disturbance.

PCSM - Post construction stormwater management. (25 Pa. Code § 102.1)

PCSM Plan - A site-specific plan consisting of both drawings and a narrative that identifies BMPs to manage changes in stormwater runoff volume, rate and water quality after earth disturbance activities have ended and the project site is permanently stabilized. (25 Pa. Code § 102.1)

Pollutant - Any contaminant or other alteration of the physical, chemical, biological or radiological integrity of surface water which causes or has the potential to cause pollution as defined in section 1 of The Clean Streams Law (35 P.S. § 691.1). (25 Pa. Code §§ 102.1, 92a.1 and 96.1)

Post construction stormwater - Stormwater associated with a project site after the earth disturbance activity has been completed and the project site is permanently stabilized. (25 Pa. Code § 102.1)

Project site - The entire area of activity, development, lease or sale including:

- (1) The area of an earth disturbance activity.
- (2) The area planned for an earth disturbance activity.
- (3) Other areas which are not subject to an earth disturbance activity. (25 Pa. Code § 102.1)

Replacement buffer - A newly established or installed riparian forest buffer located along special protection waters, in the same drainage list and as close as feasible to the area of disturbance that compensates for disturbance within 100 feet of the special protection surface water at a ratio of one to one.

Riparian buffer - A BMP that is an area of permanent vegetation along surface waters. (25 Pa. Code § 102.1)

Riparian forest buffer - A type of riparian buffer that consists of permanent vegetation that is predominantly native trees, shrubs and forbs along surface waters that is maintained in a natural state or sustainably managed to protect and enhance water quality, stabilize stream channels and banks, and separate land use activities from surface waters. (25 Pa. Code § 102.1)

Special Protection Waters - Water uses which shall be protected, and upon which the development of water quality criteria shall be based, are set forth, as High Quality Waters (HQ) and Exceptional Value (EV) Waters in § 93.3, Protected water uses.

Stormwater - Runoff from precipitation, snowmelt, surface runoff and drainage. (25 Pa. Code § 102.1)

Surface waters - Perennial and intermittent streams, rivers, lakes, reservoirs, ponds, wetlands, springs, natural seeps, and estuaries, excluding water at facilities approved for wastewater

treatment such as wastewater treatment impoundments, cooling water ponds, and constructed wetlands used as part of a wastewater treatment process. (25 Pa. Code §§ 102.1, 92a.1 and 96.1)

TMDL - Total Maximum Daily Load

Top of streambank - First substantial break in slope between the edge of the bed of the stream and the surrounding terrain. The top of streambank can either be a natural or constructed (that is, road or railroad grade) feature, lying generally parallel to the watercourse. (25 *Pa. Code* § 102.1)

Wetlands - Areas that are inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions, including swamps, marshes, bogs, and similar areas. (25 Pa. Code §§ 92a.1, 93.1 and 96.1)

3. GUIDANCE AND APPLICATION

a. Projects for Which the Riparian Forest Buffer Offsetting Applies

The scope of the projects to which Act 162 applies is narrow. In Section 402(c)(1), the scope of the amendment is limited to projects that require an NPDES permit under 25 Pa. Code Chapter 102. The NPDES permit required under Chapter 102 is the NPDES Permit for Stormwater Discharges Associated with Construction Activities (NPDES Stormwater Construction). Section 402(c)(1) provides that applicants may utilize either riparian buffers, riparian forest buffers or alternative BMPs. Section 402(c)(1)(ii) in turn sets out requirements for the alternative BMPs, providing they must be equivalent to a riparian buffer or riparian forest buffer in function. Because the underlying Chapter 102 requirements relate to riparian buffers and riparian forest buffers provide that such buffers are mandatory only for certain projects in special protection waters, the equivalency demonstration provided in Section 402(c)(1), applies to projects requiring an individual NPDES permit in a designated special protection watershed that propose any earth disturbance within 150 feet of a river, stream, creek, lake, pond or reservoir. Under Pennsylvania's NPDES regulations, all NPDES permitted projects that drain to special protection waters must obtain an individual NPDES construction stormwater permit. Therefore, according to the construction of Act 162 and regulatory requirements in 25 Pa. Code § 102.14, Act 162 is in effect, limited in scope to only those individual NPDES construction stormwater permits which involve earth disturbance activities within 150 feet of a designated special protection river, stream, creek, lake, pond or reservoir.

Because of the construction of Act 162 and the regulatory requirements in 25 Pa. Code § 102.14, general NPDES construction stormwater permits and other Chapter 102 permits are excluded from the application of Act 162. Other Chapter 102 permits include the E&S control permit for timber harvesting and road maintenance activities (E&S Permit) and the E&S Control General Permit for Earth Disturbance Associated with Oil and Gas Exploration, Production, Processing, or Treatment Operations or Transmission Facilities (ESCGP-2).

As a threshold matter, it is important to note that Act 162 did not modify the regulatory language in 25 Pa. Code § 102.14 but rather allowed for alternatives to demonstrate regulatory compliance. Therefore, the trigger for the riparian buffer requirements in the regulation is not changed by the Act, remaining at earth disturbance within 150 feet of a special protection river, stream, creek, lake, pond or reservoir. Under Act 162, Section 402(c)(1), an applicant for an individual NPDES construction stormwater permit that proposes earth disturbance within 150 feet of a HQ or EV river, stream, creek, lake, pond or reservoir, the applicant may choose to use or install either: 1) a riparian buffer or riparian forest buffer in accordance with Chapters 102.14(a) or 102.14(b), whichever is applicable; or 2) another option or options among available best management practices, design standards and alternatives that collectively are substantially equivalent to a riparian buffer or riparian forest buffer in effectiveness to protect and restore water quality in the receiving waterbody. Section 402(c)(2) of the Act further requires that those projects defined in Section 402(c)(1)(ii) that propose earth disturbance within 100 feet of a surface water will offset any reduction in total buffer zone square footage. This guidance provides the recommended criteria for demonstrating compliance of the Act 162 offsetting requirement.

b. Application Requirements

Applicants proceeding under Section 402(c)(1)(ii) who propose any earth disturbance within 100 feet of a surface water, as defined in 25 Pa. Code Chapter 102, must offset any earth disturbance activity in the buffer. In order to demonstrate compliance with the requirement, applicants should include a post construction stormwater management narrative with the individual NPDES permit application which provides sufficient justification as to why the proposed replacement riparian forest buffer site was determined to be as close as feasible to the area of disturbance. The narrative should also discuss why other buffer locations were not selected and the suitability of the chosen site using DEP's Riparian Forest Buffer Guidance (394-5600-001). In addition, a replacement riparian forest buffer management plan, maintenance plan, and monitoring plan should be completed and submitted as part of the post construction stormwater management plan. While a pre-application meeting is not required for permit issuance, it is highly recommended with projects containing riparian buffers to allow for clear communication between applicants and DEP. In addition, it is not mandatory that applicants follow the process outlined in this guidance; however, DEP recommends following this guidance in order to demonstrate compliance with the statutory requirements. An executed agreement between parties for the offsetting location should also be in-hand and all other application completeness items must be satisfied or the permit may be denied.

Note that if the earth disturbance activities are within 150 feet of the stream, creek, river, pond, lake or reservoir, and the applicant is choosing to provide alternative BMPs, then an equivalency demonstration will be required. Guidance on the equivalency demonstration can be obtained in DEP's *Riparian Buffer and Riparian Forest Buffer Equivalency Demonstration* guidance document (310-2135-002).

Step 1: If the applicant proceeding under Section 402(c)(1)(ii) proposes earth disturbance within 100 feet of surface water in a special protection watershed, they must

choose an appropriate site for the riparian forest buffer offset to be located. Criteria for location are recommended below:

- Per Section 402(c)(2) of Act 162, the replacement buffer shall be located elsewhere along special protection waters in the same drainage list and as close as feasible to the area of disturbance. Drainage lists are specified in 25 Pa. Code § 93.9 (Relating to Designated Water Uses and Water Quality Criteria) as supplemented by the Existing Use Classification List.
- It is highly recommended that the replacement buffer be located on the same stream segment as the area of disturbance.
- The replacement riparian forest buffer should be sited using the following criteria, in order of decreasing preference:
 - 1. On waters that receive runoff that has similar, or more degraded, characteristics (volume, rate, pollutant loading, etc.) as the area of disturbance. For example, if the buffer at the area of disturbance would have received post-construction urban stormwater runoff, then the replacement buffer should be located in an area which also receives post-construction urban stormwater runoff.
 - 2. On waters that are included in the "Pennsylvania Natural Heritage Program, Western Pennsylvania Conservancy, User's Manual and Data Guide to the Pennsylvania Aquatic Community Classification" with Tier 1 or Tier 2 priority for habitat restoration on waters that are in need of a riparian forest buffer, regardless of runoff characteristics.
 - 3. On waters that are in need of a riparian forest buffer, regardless of runoff characteristics.
- The replacement buffer must result in the installation of a new riparian forest buffer as opposed to preservation of an already existing riparian forest buffer.

Step 2: If an applicant proceeding under Section 402(c)(1)(ii) proposes earth disturbance within 100 feet of surface water in a special protection watershed, offsetting must occur at a ratio of one to one per unit area (square foot) of buffer impact. Additional sizing criteria are recommended below:

- Per Section 402(c)(2) of Act 162, any earth disturbance occurring within 100 feet of the surface water at the area of disturbance, shall offset any reduction in the total square footage of the buffer zone that would have been utilized as a best management practice, with a replacement buffer, at a ratio of one to one.
- At a minimum, the area of the replacement riparian forest buffer must equal that area of earth disturbance with 150 feet of the stream, creek, river, pond, lake or reservoir.
- The replacement riparian forest buffer must be at least 100 feet in width when implemented as the offset.
- For replacement sites utilizing a level spreader, the replacement riparian forest buffer length should correspond, at a minimum, with the design length of the level spreader. Level spreader length should be designed in accordance with Table G.4 of DEP's Erosion and Sediment Pollution Control Program Manual (363-2134-008). For sites not utilizing a level spreader and where stormwater enters the replacement riparian forest buffer solely as sheet flow or shallow

concentrated flow, the minimum riparian forest buffer length should be the length of the contributing flow area.

The buffer zone at the area of disturbance should remain undisturbed to the extent practicable.

Step 3: Replacement riparian forest buffer areas should have certain composition requirements as given below:

- Per Section 402(c)(2) of Act 162, replacement planting costs shall be calculated using Department guidance as specified in BMP 6.7.1: Riparian Buffer Restoration of the *Pennsylvania Stormwater Best Management Practice Manual* which indicates that native, diverse tree and shrub vegetation shall be planted with the goal being the creation of a mature forest buffer.
- To best ensure the survivability of plantings and the successful establishment of a riparian forest buffer, the use of larger, more robust plantings is recommended. Trees having a minimum caliper size of 2 inches should be used.
- The replacement riparian forest buffer composition should meet § 102.14(b)(1)(i-iii). For further guidance on species composition, see DEP's Riparian Forest Buffer Guidance (394-5600-001).

Step 4: Applicants should prepare a replacement riparian forest buffer management plan (25 Pa. Code §§ 102.14(b)(3) and (4)) containing a planting plan (Appendix A), a maintenance plan (Appendix B), and a monitoring plan (Appendix C) which should all be included as part of the post construction stormwater management plan.

All requirements for riparian forest buffers contained in 25 *Pa. Code* § 102.14 are applicable to replacement riparian forest buffers, including long-term protection from future disturbance via an instrument (deed restriction, easement, etc.) as required in 25 *Pa. Code* § 102.14(b)-(h).

4. MONITORING, INSPECTION AND REPORTING

Monitoring, inspection and reporting requirements remain as found in Chapter 102 at 25 Pa. Code § 102.4(b)(5)(x), 102.8(f)(10), 102.8(k), and 102.8(m) and in the Riparian Forest Buffer Guidance (394-5600-001), if applicable. Additionally, monitoring, inspection and reporting requirements will also be found, if approved, in the conditions of the NPDES Permit, Part A - Effluent Limitations, Monitoring, and Reporting Requirements and Part C - Other Conditions. Riparian buffers that are established as an offset must also be reported to DEP as required in 25 Pa. Code § 102.14(3) and 102.14(4), using the Form 3720-FM-BCR0100 found in Appendix D of this document.

Appendix A - Sample Replacement Riparian Forest Buffer Planting Plan

See DEP's *Riparian Forest Buffer Guidance* for additional information on site assessment, native tree/shrub selection, planting, planting density, maintenance and protection (pages 28-101).

Contact:	-		-	Phone Number:	
Site Plan					
Location:					
Species	Latin Name	Size		Quantity	Pattern/Spacing
Equipment/Tools:			Site Prepara	ntion:	
Maintenance Responsibilities:			Directions to	o site:	

Appendix B - Sample Replacement Riparian Forest Buffer Maintenance and Monitoring Plan

The following is a sample maintenance schedule to optimize survival of a newly planted riparian forest buffer. Keep in mind tasks are the same for each riparian forest buffer but there may be site variations, therefore, add to the schedule additional tasks that are site specific. See DEP's *Riparian Forest Buffer Guidance* for additional information (pages 28-101).

Maintenance Tasks for Riparian Forest Buffers Year	1	2	3	4	5
Check tree shelters (March-April) Suggested activities: straighten and re-drive any loose stakes, replace damaged/rotten stakes; check ties and tighten or replace if needed; remove large wasp nest (before they come active); remove bird nets if tree has reached the top of the shelter.	х	х	х	х	х
Remove shelters (Spring) It is recommended to remove when trees that are at least 2 inches in diameter at top of tube; leave stake in place to deter buck rub; if tree is droopy, secure to stake with biodegradable material.			х	х	х
Herbicide application (April-May) Apply broad-spectrum herbicide to protect trees from rodents and reduce competition by other plants (add a pre-emergent herbicide advisable); ideally spray 3' strips along shelters or 4' circle spots (if not mowing the site).	х	х	х	х	
Mowing (Summer and Fall) Mow between rows at least twice between June and late September to prevent weeds going to seed, and reduce existing vegetation competition. If rodent population is high, reduce habitat by mowing additional three years in the fall only (see herbicide application above). If not mowing, spot spraying for invasive plants if needed.	х	х			
Herbicide application (mid-August-early October) Apply broad-spectrum herbicide only to control perennial noxious or invasive weeds, reduce existing vegetation competition, and protect trees from rodents (ideally spray 3' strips along shelters, but could be 4' circles)	х	X	x	х	
Survival (Late Fall) Check and note any survival problems – disease, insects and invasive weed issues. Check for natural regeneration and where abundant limit further mowing unless site is prone to rodents and invasive plants.	х	х	х	х	
Replacement plantings (Fall to Spring) First identify and address the cause of losses (most commonly voles and other rodents), replant any areas with significant losses to reinforce tree stocking to desired levels; check natural regeneration for potential free recruitment of trees.		x	x		
Flooding If riparian forest buffer site floods check within one week of any flood, straighten and reposition or replace shelters and stakes if need be - downed tubes will pin and kill trees and invite rodent damage.	х	х	х	х	

Appendix C – Sample Replacement Riparian Forest Buffer Site Monitoring Form

		D				Collected byNumber of Plots			
Original Plan		sity		_	Trees or Shr	_	•		
B&B/Contain	erized Sa	aplings		_ Sheltere	d Seedlings _				
Seedlings w/o	Shelters	-		_Other _					
		Tree	s and Sh	rubs Coun	ted During M	lonitoring			
			Numbe	r of Each l	Plant Type		Con	nditio	n*
Tree or Shrub Species	Numt Count			Sheltered Seedling	B&B/ Container	Natural Regen.	Other	1	2
									-
	-								
									<u> </u>
							-		_
TOTALS:									
grow. *2=Damag Number of	ed or imp Species (lition Sur	paired by so Counted: nmary: Per	me prob	lem.	aired or dam			vive an	ı d
Nor	ıe		Ligh		Medium	Hea	2VV		7
Over Enti	ire Site		Ligh		Medium	Пе	avy		
Tally for plot	each								
Comments									

Appendix D - PA Stream Buffer Tracking Form



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CONSERVATION AND RESTORATION

PA STREAM BUFFER TRACKING FORM

Project Contact Person:							
Organization:							
Email: Phone #:							
	PROJ	IECT IDENTIFI	CATIONS				
Project Start Date:							
Project Name:							
Project Address:							
County:							
Stream Name:							
104 Watershed Code:	Latitude):	Center of Site Longitude:				
Water Body: Stream	☐ Wetland	River	☐ Lake	Pond	☐ Dam		
TMDL/Impairment Status of	Waterbody:						
Water Use Designation: htt	p://www.pacode.com	/secure/data/02	25/chapter93/chap93to	c.html			
	BUFFER POTENTIA	AL TO BECOM	E A MATURE FORES	т			
Reason for Buffer:			Buffer Permanen	tly Protected:	Yes 🗌 No		
Riparian Forest Buffer Prote	ction Agreement:	Yes No	Protection Status	,			
Condition of Stream Bank:	🗌 Laid Back 🔲 l	Jndercut 🗌	Bare	☐ Needs Work	☐ Other		
Health of Buffer: Poor	☐ Average	☐ Good	☐ Excellent				
State After Project Completion: New Enhancement Existing							
% Canopy Cover (Total Ground Area Shaded by Woody Vegetation):							
% of Ground Cover in Buffer	r – Total Area Covere	ed by Non-Woo	dy Vegetation:				
BUFFER CHARACTERISTICS							
Adjacent Land Use: 🔲 Her	baceous/Shrubs	☐ Farm	☐ Development	t			
Buffer Type: Forest	☐ Tree/Shrubs	☐ Grasses	☐ Fencing Only	Fencin	g and Trees		
Buffer Length 1 st Side (Facing Downstream): Buffer Width 1 st Side:							
Buffer Length 2 nd Side (Facing Downstream): Buffer Width 2 nd Side:							
Funding Source:							

Please return to:

Pa. DEP, Bureau of Conservation and Restoration PO Box 8555 Harrisburg, PA 17105-8555

Attn: Stream ReLeaf Program Phone: 717.772.5637 Fax: 717.787.9549

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RESOLUTION

A RESOLUTION of the members of the Delaware Health Insurance Trust requesting the Board of Directors of the Trust to distribute to its membership annually the rating experience of all members of the trust.

WHEREAS, the Delaware Valley Health Insurance Trust is a self-insured governmental multiple employer health insurance arrangement through an Intergovernmental Agreement known as the Delaware Valley Health Insurance Trust Agreement; and

WHEREAS, the Delaware Valley Health Insurance Trust administers and/or oversees the administration of health benefits to, *inter alia*, the employees of its various municipal participants ("Participants") and acts through a Board of Trustees who have committed themselves to administer, manage, collect, receive and dispose of trust funds for the benefit the Participants; and

WHEREAS, the Board of Trustees ("Trustees") are required to carry out their duties and responsibilities with the care, skill, diligence and prudence that a prudent person would use in the conduct of an enterprise of a like character and aims; and

WHEREAS, the Board of Trustees ("Trustees") is the governing body of the Delaware Valley Health Insurance Trust and may delegate in writing to an Executive Committee certain powers and duties which the Trustees deem to be appropriate; and

WHEREAS, the Board of Trustees establishes the underwriting standards and other requirements to which Participants must adhere including a lost or claims history which does not endanger the Trust; and

WHEREAS, the Executive Committee is delegated the responsibility of establishing the contributions of each Participant; and

WHEREAS, on April 1, 2009, the Executive Committee adopted a Claims Data Disclosure Policy ("Policy") that claims data upon which the required contributions of individual Participants are based only be released to "key members of the Trust's staff and the Executive Committee", a Policy to which the Executive Committee has adhered to this date; and

WHEREAS, deprived of claims data, the Trustees are not able to make an independent judgment as to whether the contributions required of individual Participants are fairly determined and apportioned, thus abrogating the fundamental duties of the Trustees to assure that the Trust fairly benefits each Participant and that the claims history of individual Participants does not endanger the Trust.

NOW THEREFORE, the Trustees of the Delaware Valley Health Insurance Trust hereby RESOLVE:

That the Executive Committee of the Delaware Valley Insurance Trust modify the April 1, 2009 Policy and make available to all Trustees the claims data of all Participants, the contribution required of each Participant for the last three years and the claims data upon which that contribution was based, and the formula used by the Executive Committee for determining that contribution; and

That the modified policy be and remain the policy of the Executive Committee with regard to the release of claims data until such time as the Trustees shall approve a revision thereof.

ADOPTED by the Trustees of the Delaware Health Insurance Trust this	day	of
, 2017.	-	

Parks and Recreation Committee

The Committee Meeting was held June 6, 2017 at 7:00 p.m. in Borough Council Chambers located at 131 Rosemary Avenue. Committee Members: Frank DeRuosi (Chair), Nancy Deininger and Sara Hertz. Absent: Mr. Curtis

The Committee will make no recommendations

Recommended at Committee Meeting.

1. A recommendation was requested to fund the Farmers Market program for Ambler Buck's. It was agreed to provide \$600.00 to be used as follows \$100.00 printing and \$500 for customer reimbursement, the funds are not to be used to subsidize market vendors.

The following business will be discussed.

- 1. Staff has updated the 5 Year Plan including cost for several Park upgrades. Residents have requested several additions to the Parks.
- 2. Wissahickon Summer Music Program is scheduled again this summer to perform on the following dates/venues: Monday, July 24 (7:00 p.m.) at Pickering Field and Thursday, July 27 (7:00 p.m.) at Alley of the Arts, Cavalier Drive.
- 3. The committee is working with Ambler Main Street to schedule the following events: Summer Concerts in the Park; Yoga in the park; and Mindfulness/Meditation in the Park.
- 4. The Borough is collecting gently used children's books and mature books for use in our free libraries
- 5. The EAC minutes were received.

Salary & Personnel Committee

The Committee Meeting was held June 6, 2017 at 7:00 p.m. in Borough Council Chambers located at 131 Rosemary Avenue. Committee Members: Nancy Deininger (Chair) Sara Hertz, Sharon Mc Cormick and Francine Tomlinson. Absent: Mr. Curtis

The Committee will make no recommendations.

Recommended at Committee Meeting.

1. A Recommendation was made to approve the Executive Session recommendation regarding 3 Borough Employees.

The following business will be discussed.

- 1. An emergency executive session was held on 5-31-17, regarding an employee issue.
- 2. Vacancies exist on the Environmental Advisory Council and Appeals Board. Interested candidates are asked to send a letter of interest and resume to the Borough Manager.

Recommendations

Public Safety

A recommendation is requested to adopt Resolutions 2017-8 and 2017-9 required for the application to PENNDOT for Pedestrian Flashers at Butler and York and Butler and Cavalier.

Public Utilities Committee

A recommendation is requested to award to Iannuzzi Construction Company, Well 11 Paving, in the amount of \$13,980.00..

Finance and Planning Committee

Recommend the May 2017 invoices be paid in the amount of \$ 756,521.64.

A recommendation is requested to hire Cohen Law Group to negotiate the Comcast franchise agreement.

Parks and Recreation Committee

Salary and Personnel Committee

Public Comment Procedure:

As a reminder, it will not be the practice of Council to answer questions and/or engage in dialogue with the speaker during the Public Comments section of the meeting. Comments regarding any and all employee issues will not be entertained. Council may address items or questions raised at the next scheduled Committee/Council meeting, but reserves the right to determine agenda items. Council requests that those in attendance refrain from engaging the speaker during public comments.

Thank you for your cooperation.

Ambler Borough Council