

HRG

Herbert, Rowland & Grubic, Inc.
Engineering & Related Services

AN EMPLOYEE-OWNED COMPANY

EVANS CITY STORMWATER CONVEYANCE IMPROVEMENT PROJECT – PHASE 1

Submitted to:

BUTLER COUNTY

Board of Commissioners
ATTN: Teresa Sparacino
Fifth Floor, County Government Center
124 West Diamond Street
Butler, PA 16001

In Response to:

MUNICIPAL INFRASTRUCTURE
PROGRAM (MIP)

Submitted by:

HERBERT, ROWLAND & GRUBIC, INC.
220 West Kensing Drive, Suite 100
Cranberry Township, PA 16066

In Partnership with
EVANS CITY BOROUGH

204 S Jackson St B, Evans City, PA 16033

Date:

August 31, 2022

**MUNICIPAL INFRASTRUCTURE PROGRAM GRANT APPLICATION FOR
EVANS CITY BOROUGH**

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1

MUNICIPAL
INFRASTRUCTURE
PROGRAM
APPLICATION



MUNICIPAL INFRASTRUCTURE PROGRAM APPLICATION

APPLICANT INFORMATION

ORGANIZATION NAME: Evans City Borough **FEIN:** 25-6000353

CONTACT NAME AND TITLE: Beth Crowley, Secretary/Treasurer

ADDRESS: 204 B South Jackson Street, Evans City, PA 16033

EMAIL: ecboro@evanscity.us **UEI:** MM2XNHQTWJE5

PHONE: 724-538-8320

ENTITY TYPE:

MUNICIPAL GOVERNMENT: ☒

MUNICIPAL AUTHORITY: ☐

PROJECT INFORMATION

PROJECT NAME: Evans City Stormwater Conveyance Improvement Project

PROJECT CATEGORY:

☐ **WATER**

☐ **SEWER**

☒ **OTHER ELIGIBLE PROJECT**

☐ **BROADBAND**

MIP REQUEST/LOCAL MATCH

Please complete the following table with the amount of the MIP request and local match.

USE OF FUNDS	TOTAL PROJECT COSTS	MIP REQUEST	LOCAL MATCH	STATUS OF LOCAL MATCH
ENGINEERING/DESIGN	\$49,493.75	\$42,093.75	\$7,400.00	Committed
CONSTRUCTION	\$329,958.33	\$280,558.33	\$49,400.00	Committed
CONTINGENCY	\$49,493.75	\$42,093.75	\$7,400.00	Committed
CONSTRUCTION MANAGEMENT	\$0.00	\$0.00	\$0.00	Committed
TOTALS	\$428,945.83	\$364,745.83	\$64,200.00	Committed

* See Appendix A2 for further cost estimation details

** Construction Management Costs have been accounted for elsewhere in the total cost estimation



PROJECT NEEDS AND OUTCOMES

Please describe the need for the project, and why funding is being requested:

See attached, Appendix A1.

Please describe the positive impacts of the project and measurable outcomes (e.g., number of households served, economic impacts, etc.)

See attached, Appendix A1.

PROJECT SCHEDULE

Please complete the following table with the project schedule. **Please note: All contracts for work to be completed must be executed by December 31, 2024; all work must be completed by December 31, 2026.**

COMPONENT	START DATE	COMPLETION DATE
FINAL ENGINEERING/DESIGN	August 2023	November 2023
PERMITTING	August 2023	November 2023
BID DATE	December 2023	March 2024
NOTICE TO PROCEED	April 2024	May 2024
CONSTRUCTION	May 2024	August 2024

*All project timelines will be adjusted as dependent upon MIP funding date and applicable permit needs approval

ADDITIONAL DOCUMENTATION REQUIREMENTS

Please provide the following documentation:

- Engineer's estimate
- List of permits required with status of permits
- If State funding is used for match, please provide copy of grant award letter



SIGNATURES AND CERTIFICATION

1. I hereby certify that I have the authority and approval from the governing body of the applying municipality or municipal authority to submit this application for MIP funds.
2. I understand that should this application be approved; an Intergovernmental and Subrecipient Agreement will need to be executed between the parties.
3. I understand that Butler County will rely on this certification as a material representation in reviewing and potentially approving this application.
4. I understand any award of funds pursuant to this application must adhere to U.S. Department of the Treasury, Interim and Final Rule for Coronavirus State & Local Fiscal Recovery Funds. I further certify costs meet the required guidance. Any funds expended by the municipality or municipal authority in any manner that does not adhere to official federal guidance shall be returned to Butler County.
5. I further certify that the project will meet the required timeline as specified within this application and Butler County's MIP guidelines.

Jean Charisse Deener-Kohan

AUTHORIZED SIGNATURE

Jean Charisse Deener-Kohan

PRINT NAME

Evans City Borough Council President

TITLE

26 August 2022

DATE

Mark R. Widdersheim

MARK R. WIDDERSHEIM
EVANS CITY BOROUGH COUNCIL
SOUTHWEST BUTLER COUNTY
STORMWATER PLANNING GROUP

AUGUST 26, 2022

APPLICATION SUBMISSION

Email completed application by **August 31, 2022**, to: ButlerARPA@deltaone.com

PROGRAM INQUIRIES

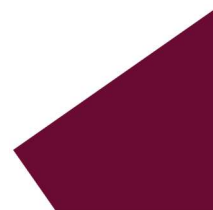
Program Inquiries should be directed to:

Teresa M. Sparacino
717-441-1318
ButlerARPA@deltaone.com



Appendix 1:

Project Needs
and Outcomes



Appendix 1 – Project Needs and Outcomes

Describe the need for the project, and why funding is being requested:

This application to the Municipal Infrastructure Program is being submitted in cooperation with a group of ten municipalities dedicated to addressing stormwater management on a regional watershed basis. This collaborative effort is referred to as the Southwest Butler Stormwater Planning Group. This Group was formed in response to a request from the County Commissioners in October 2019 for municipalities to work together to mitigate future flooding events. One of several accomplishments of the Group was the development and subsequent adoption of the Lower Connoquenessing Stormwater Planning Study in 2021. This Study identified priority projects in the participating municipalities to meet the goals of reducing the impact of future flooding events.

The Borough of Evans City currently has severe flooding effects due to inadequate storm management systems and needs a system improvement. Stormwater conveyance systems such as sewers, swales, and curbed roadways need replaced or installed. With these missing conveyance systems, stormwater can easily flood roadways, local homes, and businesses.

Describe the positive impacts of the project and measurable outcomes:

With improved stormwater management systems in the borough, flooding likelihood can be drastically reduced. This will allow for safer navigation of roadways for borough residents, as well as decreased property flooding in the area. These systems will also increase water quality in the borough, as pollutants that get washed out due to storm events can be safely addressed. This grant request will be for Phase 1 of the proposed project, outlined on the project location map in Appendix A4.



A2

Appendix 2: Cost Estimate

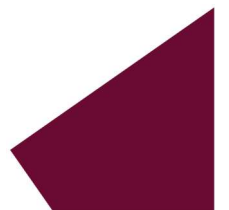


Exhibit 2 – Cost Estimate

The Borough seeks the Municipal Infrastructure Fund funding to complete Stormwater improvements in Evans City Borough, Butler County.

Grant funding would be used to assist in the funding of \$329,958.33 in construction costs, \$49,493.75 in engineering, and \$49,493.75 in contingencies.

A detailed cost estimate is included on the following pages for the Evans City Stormwater Conveyance Improvement Project – Phase 1. The first cost estimate sheet listed is for the requested amount of funds in this application, and the second cost estimate sheet is for the remaining scope of the project.

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

CLIENT: EVANS CITY BOROUGH

PROJECT NAME: EVANS CITY STORMWATER CONVEYANCE IMPROVEMENT PROJECT - REQUESTED ITEMS

HRG Project Number: 3217.0448

DATE: AUGUST 2022

ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
1	MOBILIZATION AND PROJECT MANAGEMENT	1	LS	\$ 5,000.00	\$ 5,000.00
2	TRAFFIC PROTECTION AND MAINTENANCE	1	LS	\$ 3,333.33	\$ 3,333.33
3	EROSION AND SEDIMENTATION CONTROL	1	LS	\$ 2,500.00	\$ 2,500.00
4	36" HEADWALL	1	EA	\$ 10,000.00	\$ 10,000.00
5	36" HDPE PIPE INSTALLATION	225	LF	\$ 125.00	\$ 28,125.00
6	30" HDPE PIPE INSTALLATION	250	LF	\$ 115.00	\$ 28,750.00
7	24" HDPE PIPE INSTALLATION	200	LF	\$ 105.00	\$ 21,000.00
8	18" HDPE PIPE INSTALLATION	400	LF	\$ 95.00	\$ 38,000.00
9	TYPE M STANDARD INLET BOXES WITH BICYCLE SAFE GRATE	21	EA	\$ 5,000.00	\$ 105,000.00
10	PAVEMENT RESTORATION	450	SY	\$ 125.00	\$ 56,250.00
11	PERMITS	1	LS	\$ 20,000.00	\$ 20,000.00
12	UTILITY COORDINATION & RELOCATION	1	LS	\$ 10,000.00	\$ 10,000.00
13	PIPE OUTLET BACKFLOW PREVENTOR	1	EA	\$ 2,000.00	\$ 2,000.00

SUBTOTAL CONSTRUCTION \$ 329,958.33

CONTINGENCY (15%) \$ 49,493.75

ENGINEERING, ADMIN, AND LEGAL FEES (15%) \$ 49,493.75

TOTAL \$ 428,945.83

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

CLIENT: EVANS CITY BOROUGH

PROJECT NAME: EVANS CITY STORMWATER CONVEYANCE IMPROVEMENT PROJECT - ADDITIONAL ITEMS

HRG Project Number: 3217.0448

DATE: AUGUST 2022

ITEM NO.	DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENSION
1	MOBILIZATION AND PROJECT MANAGEMENT	1	LS	\$ 10,000.00	\$ 10,000.00
2	TRAFFIC PROTECTION AND MAINTENANCE	1	LS	\$ 6,666.67	\$ 6,666.67
3	EROSION AND SEDIMENTATION CONTROL	1	LS	\$ 5,000.00	\$ 5,000.00
4	36" HEADWALL	2	EA	\$ 10,000.00	\$ 20,000.00
5	36" HDPE PIPE INSTALLATION	550	LF	\$ 125.00	\$ 68,750.00
6	30" HDPE PIPE INSTALLATION	500	LF	\$ 115.00	\$ 57,500.00
7	24" HDPE PIPE INSTALLATION	400	LF	\$ 105.00	\$ 42,000.00
8	18" HDPE PIPE INSTALLATION	600	LF	\$ 95.00	\$ 57,000.00
9	TYPE M STANDARD INLET BOXES WITH BICYCLE SAFE GRATE	35	EA	\$ 5,000.00	\$ 175,000.00
10	PAVEMENT RESTORATION	900	SY	\$ 125.00	\$ 112,500.00
11	PERMITS	1	LS	\$ 30,000.00	\$ 30,000.00
12	UTILITY COORDINATION & RELOCATION	1	LS	\$ 20,000.00	\$ 20,000.00
13	PIPE OUTLET BACKFLOW PREVENTOR	2	EA	\$ 2,000.00	\$ 4,000.00

SUBTOTAL CONSTRUCTION \$ 608,416.67

CONTINGENCY (15%) \$ 91,262.50

ENGINEERING, ADMIN, AND LEGAL FEES (15%) \$ 91,262.50

TOTAL \$ 790,941.67

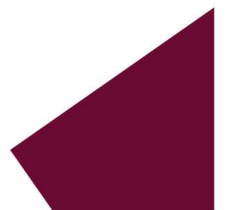
*Additional Scope of work estimate for later phases of the
Evans City Stormwater Conveyance Improvement Project



A3

Appendix 3:

Scenario 3
Permit List



Appendix 3 – Permit List

The planned infrastructure improvements to the Project site may require the following permits and `

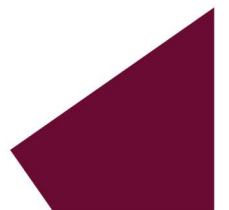
Permit/Approval*

PennDOT Highway Occupancy Permit Approval
NPDES Permit
Joint Water Obstruction and Encroachment Plan

**Additional permits/approvals may be deemed necessary once final design is complete.*

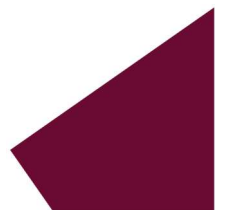


Appendix 4: Supplemental Information





Appendix 4: Project Location Map



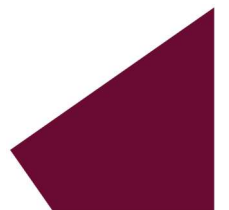




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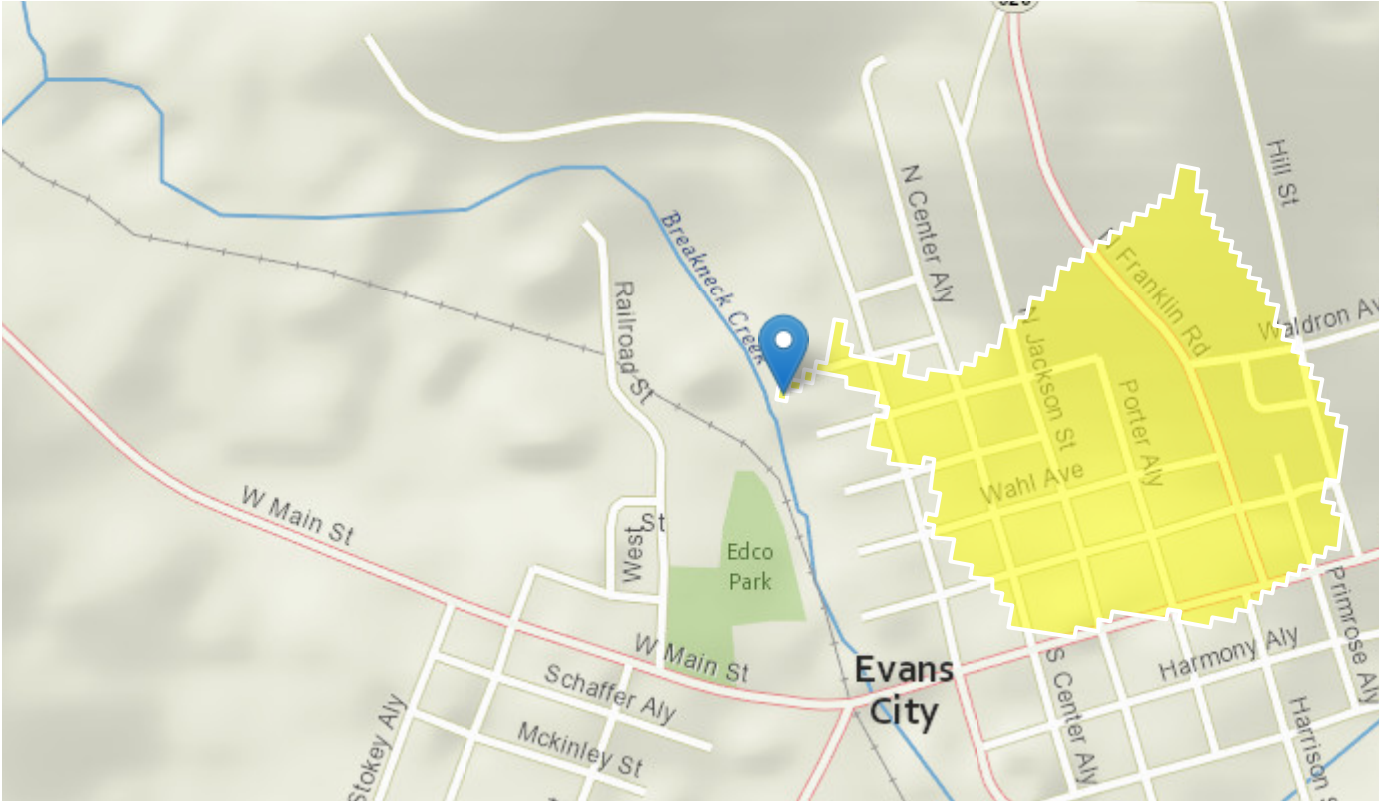
Appendix 4:

Stormwater
Project Area
Map Study



StreamStats Report - Evans City

Region ID: PA
Workspace ID: PA20220824152855987000
Clicked Point (Latitude, Longitude): 40.77138, -80.06497
Time: 2022-08-24 11:29:17 -0400



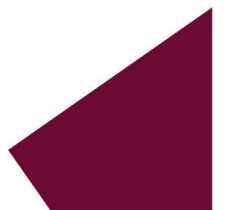
+ Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BSLOPD	Mean basin slope measured in degrees	9.8182	degrees
BSLOPDRAW	Unadjusted basin slope, in degrees	10.0511	degrees
BSLPDRPA20	Unadjusted basin slope, in degrees, from PA v1	8.7018	degrees
CARBON	Percentage of area of carbonate rock	0	percent
CENTROXA83	X coordinate of the centroid, in NAD_1983_Albers, meters	-173984.187	meters



Appendix 4: Resolution of Support



Resolutions adopted by the following members of the
Southwest Butler Stormwater Planning Group, in
support of their fellow members' grant applications to
the Butler County Municipal Infrastructure Program,
which are consistent with the overall recommendations
of the unanimously adopted
Lower Connoquenessing Stormwater Planning Study.

Cranberry Township Board of Supervisors

Evans City Borough Council

Forward Township Board of Supervisors

Harmony Borough Council

Jackson Township Board of Supervisors

Lancaster Township Board of Supervisors

Penn Township Board of Supervisors

Seven Fields Borough Council

Zelienople Borough Council

RESOLUTION NO. 2022-63

A RESOLUTION OF THE (BOARD OF SUPERVISORS OF THE TOWNSHIP CRANBERRY, BUTLER COUNTY, PA) SUPPORTING THE APPLICATIONS OF THE COLLABORATING MUNICIPALITIES COMPRISING THE SOUTHWEST BUTLER STORMWATER PLANNING GROUP TO THE "BUTLER COUNTY MUNICIPAL INFRASTRUCTURE PROGRAM"

WHEREAS, in 2019 Butler County experienced significant flooding events throughout the County that impacted many properties and lives in nearly every municipality in the County; and,

WHEREAS, County Commissioners Leslie Osche, Kim Geyer and Kevin Boozel understood multi-municipal action was needed to mitigate future flooding and organized a county-wide meeting on October 9, 2019 to urge municipalities to work together with the County on this critical issue; and,

WHEREAS, in response to that call to action from the County Commissioners ten municipalities in the southwestern part of the County embraced that call to action and have worked to develop strong sustainable inter-governmental relationships that have enabled municipal officials to work collaboratively in finding ways to mitigate future flooding, as it is understood that what one community does in regard to stormwater impacts their neighbors downstream; and,

WHEREAS, those communities have worked diligently to develop a unified approach in identifying priority projects to mitigate future flooding, which was documented in a group effort to develop the Lower Connoquenessing Stormwater Planning Study dated April 28, 2021, adopted by each of the municipal governing bodies, as well as by the Butler County Commissioners; and,

WHEREAS, the Butler County Commissioners has further demonstrated their commitment to mitigate future flooding by funding the Municipal Infrastructure Grant Program to support water related improvements; and,

NOW, THEREFORE BE IT RESOLVED, that the Cranberry Township Board of Supervisors continues to endorse this collaborative effort by supporting the applications being submitted by the members of this Group that have participated in and financially contributed to the recent planning efforts to advance stormwater projects identified by this Group, with those applications being submitted by the following members;

Boroughs of Evans City, Harmony, Seven Fields and Zelienople and the Townships of Adams, Cranberry, Forward, Jackson, Lancaster and Penn.

Borough of Evans City
Butler County, Pennsylvania
RESOLUTION No. 10-2022

**A RESOLUTION OF THE BOROUGH COUNCIL OF THE EVANS CITY
BOROUGH SUPPORTING THE APPLICATIONS OF THE COLLABORATING
MUNICIPALITIES COMPRISING THE SOUTHWEST BUTLER
STORMWATER PLANNING GROUP TO THE "BUTLER COUNTY
MUNICIPAL INFRASTRUCTURE PROGRAM"**

WHEREAS, in 2019 Butler County experienced horrific flooding events throughout the County that impacted many properties and lives in nearly every municipality in the County; and,

WHEREAS, County Commissioners Leslie Osche, Kim Geyer and Kevin Boozel understood multi-municipal action was needed to mitigate future flooding and organized a county-wide meeting on October 9, 2019 to urge municipalities to work together with the County on this critical issue; and,

WHEREAS, in response to that call to action from the County Commissioners ten municipalities in the southwestern part of the County embraced that call to action and have worked to develop strong sustainable inter-governmental relationships that have enabled municipal officials to work collaboratively in finding ways to mitigate future flooding, as it is understood that what one community does in regard to stormwater impacts their neighbors downstream; and,

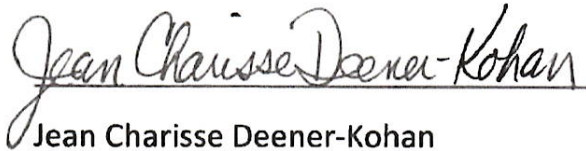
WHEREAS, those communities have worked diligently to develop a unified approach in identifying priority projects to mitigate future flooding, which was documented in a group effort to develop the Lower Connoquenessing Stormwater Planning Study dated April 28, 2021, adopted by each of the municipal governing bodies, as well as by the Butler County Commissioners; and,

WHEREAS, the Butler County Commissioners has further demonstrated their commitment to mitigate future flooding by funding the Municipal Infrastructure Grant Program to support water related improvements; and,

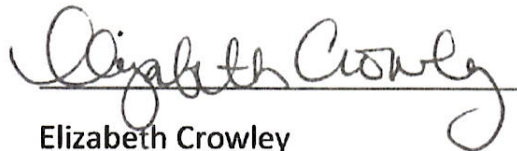
NOW, THEREFORE BE IT RESOLVED, that the Borough Council continues to endorse this collaborative effort by supporting the applications being submitted by the members of this Group to advance projects identified by this Group, with those applications being submitted by the following members;

Boroughs of Evans City, Harmony, Seven Fields and Zelienople and the ~~Townships of Adams~~, Cranberry, Forward, Jackson, Lancaster and Penn.

RESOLVED, and APPROVED by the Borough Council this 1st day of August, 2022



Jean Charisse Deener-Kohan
President
Borough Council



Elizabeth Crowley
Borough Secretary
Borough of Evans City

FORWARD TOWNSHIP
Butler County, Pennsylvania

RESOLUTION No. 5

A RESOLUTION OF THE BOARD OF SUPERVISORS OF THE TOWNSHIP of FORWARD TOWNSHIP SUPPORTING THE APPLICATIONS OF THE COLLABORATING MUNICIPALITIES COMPRISING THE SOUTHWEST BUTLER STORMWATER PLANNING GROUP TO THE "BUTLER COUNTY MUNICIPAL INFRASTRUCTURE PROGRAM"

WHEREAS, in 2019 Butler County experienced horrific flooding events throughout the County that impacted many properties and lives in nearly every municipality in the County; and,

WHEREAS, County Commissioners Leslie Osche, Kim Geyer and Kevin Boozel understood multi-municipal action was needed to mitigate future flooding and organized a county-wide meeting on October 9, 2019 to urge municipalities to work together with the County on this critical issue; and,

WHEREAS, in response to that call to action from the County Commissioners ten municipalities in the southwestern part of the County embraced that call to action and have worked to develop strong sustainable inter-governmental relationships that have enabled municipal officials to work collaboratively in finding ways to mitigate future flooding, as it is understood that what one community does in regard to stormwater impacts their neighbors downstream; and,

WHEREAS, those communities have worked diligently to develop a unified approach in identifying priority projects to mitigate future flooding, which was documented in a group effort to develop the Lower Connoquenessing Stormwater Planning Study dated April 28, 2021, adopted by each of the municipal governing bodies, as well as by the Butler County Commissioners; and,

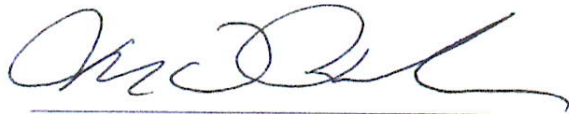
WHEREAS, the Butler County Commissioners has further demonstrated their commitment to mitigate future flooding by funding the Municipal Infrastructure Grant Program to support water related improvements; and,

NOW, THEREFORE BE IT RESOLVED, that the (Board of Supervisors/Borough Council) continues to endorse this collaborative effort by supporting the applications being submitted by the members of this Group to advance projects identified by this Group, with those applications being submitted by the following members;

Boroughs of Evans City, Harmony, Seven Fields and Zelienople and the Townships of Adams, Cranberry, Forward, Jackson, Lancaster and Penn.

RESOLVED, and APPROVED by the Board of Supervisors this 9 day of August, 2022

BOARD OF SUPERVISORS OF
FORWARD TOWNSHIP



Melvin Musulin, Chairman



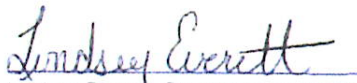
Mark Wilson, Vice Chairman



Stephen Buhler, Supervisor

Stephen
SB

ATTEST:


Lindsey Everett, Secretary/Treasurer

Borough of Harmony
Butler County, Pennsylvania
RESOLUTION No. 2022 08 02

**A RESOLUTION OF THE BOROUGH COUNCIL OF HARMONY BOROUGH
SUPPORTING THE APPLICATIONS OF THE COLLABORATING MUNICIPALITIES
COMPRISING THE SOUTHWEST BUTLER STORMWATER PLANNING GROUP TO
THE "BUTLER COUNTY MUNICIPAL INFRASTRUCTURE PROGRAM"**

WHEREAS, in 2019 Butler County experienced horrific flooding events throughout the County that impacted many properties and lives in nearly every municipality in the County; and,

WHEREAS, County Commissioners Leslie Osche, Kim Geyer and Kevin Boozel understood multi-municipal action was needed to mitigate future flooding and organized a county-wide meeting on October 9, 2019 to urge municipalities to work together with the County on this critical issue; and,

WHEREAS, in response to that call to action from the County Commissioners ten municipalities in the southwestern part of the County embraced that call to action and have worked to develop strong sustainable inter-governmental relationships that have enabled municipal officials to work collaboratively in finding ways to mitigate future flooding, as it is understood that what one community does in regard to stormwater impacts their neighbors downstream; and,

WHEREAS, those communities have worked diligently to develop a unified approach in identifying priority projects to mitigate future flooding, which was documented in a group effort to develop the Lower Connoquenessing Stormwater Planning Study dated April 28, 2021, adopted by each of the municipal governing bodies, as well as by the Butler County Commissioners; and,

WHEREAS, the Butler County Commissioners has further demonstrated their commitment to mitigate future flooding by funding the Municipal Infrastructure Grant Program to support water related improvements; and,

NOW, THEREFORE BE IT RESOLVED, that the Borough Council continues to endorse this collaborative effort by supporting the applications being submitted by the members of this Group to advance stormwater projects identified by this Group, with those applications being submitted by the following members:

Boroughs of Evans City, Harmony, Seven Fields and Zelienople and the Townships of Adams, Cranberry, Forward, Jackson, Lancaster, and Penn.

RESOLVED, and APPROVED by the Borough Council) this 2nd day of August, 2022



Gregory Such
President
Harmony Borough Council



Amy Brown
Secretary
Harmony Borough

Official

Jackson Township
Butler County, Pennsylvania
RESOLUTION No. 22-17

**A RESOLUTION OF THE BOARD OF SUPERVISORS OF THE JACKSON TOWNSHIP
SUPPORTING THE APPLICATIONS OF THE COLLABORATING MUNICIPALITIES
COMPRISING THE SOUTHWEST BUTLER STORMWATER PLANNING GROUP TO THE
"BUTLER COUNTY MUNICIPAL INFRASTRUCTURE PROGRAM"**

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WHEREAS, the Butler County Commissioners has further demonstrated their commitment to mitigate future flooding by funding the Municipal Infrastructure Grant Program to support water related improvements; and,

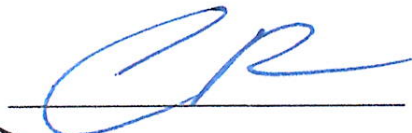
NOW, THEREFORE BE IT RESOLVED, that the (Board of Supervisors/Borough Council) continues to endorse this collaborative effort by supporting the applications being submitted by the members of this Group to advance stormwater projects identified by this Group, with those applications being submitted by the following members;

Boroughs of Evans City, Harmony, Seven Fields and Zelienople and the Townships of Adams, Cranberry, Forward, Jackson, Lancaster and Penn.

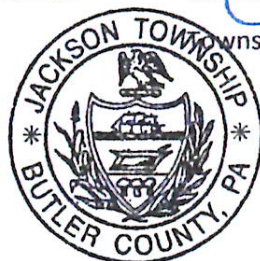
RESOLVED, and APPROVED by the Board of Supervisors this 18th day of August 2022.



Chairman, Jay Grinnell



Township Secretary, Chris Rearick



RESOLUTION NUMBER 2022-16
LANCASTER TOWNSHIP
BUTLER COUNTY, PENNSYLVANIA

**A RESOLUTION OF THE BOARD OF SUPERVISORS OF LANCASTER TOWNSHIP
SUPPORTING THE APPLICATIONS OF THE COLLABORATING MUNICIPALITIES
COMPRISING THE SOUTHWEST BUTLER STORMWATER PLANNING GROUP TO
THE “BUTLER COUNTY MUNICIPAL INFRASTRUCTURE PROGRAM”**

WHEREAS, in 2019 Butler County experienced horrific flooding events throughout the County that impacted many properties and lives in nearly every municipality in the County; and,

WHEREAS, County Commissioners Leslie Osche, Kim Geyer and Kevin Boozel understood multi-municipal action was needed to mitigate future flooding and organized a county-wide meeting on October 9, 2019 to urge municipalities to work together with the County on this critical issue; and,

WHEREAS, in response to that call to action from the County Commissioners ten municipalities in the southwestern part of the County embraced that call to action and have worked to develop strong sustainable inter-governmental relationships that have enabled municipal officials to work collaboratively in finding ways to mitigate future flooding, as it is understood that what one community does in regard to stormwater impacts their neighbors downstream; and,

WHEREAS, those communities have worked diligently to develop a unified approach in identifying priority projects to mitigate future flooding, which was documented in a group effort to develop the Lower Connoquenessing Stormwater Planning Study dated April 28, 2021, adopted by each of the municipal governing bodies, as well as by the Butler County Commissioners; and,

WHEREAS, the Butler County Commissioners has further demonstrated their commitment to mitigate future flooding by funding the Municipal Infrastructure Grant Program to support water related improvements; and,

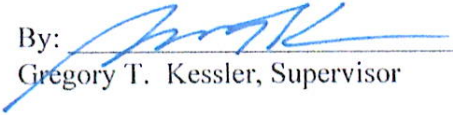
NOW, THEREFORE BE IT RESOLVED, that the Board of Supervisors continues to endorse this collaborative effort by supporting the applications being submitted by the members of this Group to advance projects identified by this Group, with those applications being submitted by the following members;

Boroughs of Evans City, Harmony, Seven Fields and Zelienople and the Townships of Adams, Cranberry, Forward, Jackson, Lancaster, and Penn.

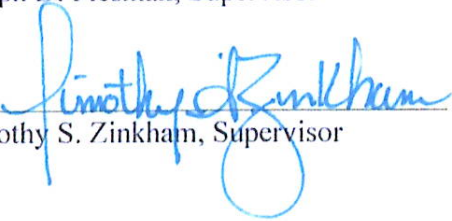
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ADOPTED and ENACTED on this 15th day of August 2022.

LANCASTER TOWNSHIP
BOARD OF SUPERVISORS

By: 
Gregory T. Kessler, Supervisor

By: 
Joseph D. Plesniak, Supervisor

By: 
Timothy S. Zinkham, Supervisor

ATTEST:



C. Michael Foote

Township Manager, Secretary, Treasurer

Township of 544

Butler County, Pennsylvania

RESOLUTION No. 544

Penn Township

A RESOLUTION OF THE (BOARD OF SUPERVISORS/BOROUGH COUNCIL) OF THE (BOROUGH of/TOWNSHIP of) SUPPORTING THE APPLICATIONS OF THE COLLABORATING MUNICIPALITIES COMPRISING THE SOUTHWEST BUTLER STORMWATER PLANNING GROUP TO THE "BUTLER COUNTY MUNICIPAL INFRASTRUCTURE PROGRAM"

WHEREAS, in 2019 Butler County experienced horrific flooding events throughout the County that impacted many properties and lives in nearly every municipality in the County; and,

WHEREAS, County Commissioners Leslie Osche, Kim Geyer and Kevin Boozel understood multi-municipal action was needed to mitigate future flooding and organized a county-wide meeting on October 9, 2019 to urge municipalities to work together with the County on this critical issue; and,

WHEREAS, in response to that call to action from the County Commissioners ten municipalities in the southwestern part of the County embraced that call to action and have worked to develop strong sustainable inter-governmental relationships that have enabled municipal officials to work collaboratively in finding ways to mitigate future flooding, as it is understood that what one community does in regard to stormwater impacts their neighbors downstream; and,

WHEREAS, those communities have worked diligently to develop a unified approach in identifying priority projects to mitigate future flooding, which was documented in a group effort to develop the Lower Connoquenessing Stormwater Planning Study dated April 28, 2021, adopted by each of the municipal governing bodies, as well as by the Butler County Commissioners; and,

Borough of Seven Fields
Butler County, Pennsylvania
RESOLUTION No. 2022-26

**A RESOLUTION OF THE BOROUGH COUNCIL OF THE BOROUGH OF
SEVEN FIELDS SUPPORTING THE APPLICATIONS OF THE
COLLABORATING MUNICIPALITIES COMPRISING THE SOUTHWEST
BUTLER STORMWATER PLANNING GROUP TO THE "BUTLER COUNTY
MUNICIPAL INFRASTRUCTURE PROGRAM"**

WHEREAS, in 2019 Butler County experienced horrific flooding events throughout the County that impacted many properties and lives in nearly every municipality in the County; and,

WHEREAS, County Commissioners Leslie Osche, Kim Geyer and Kevin Booze understood multi-municipal action was needed to mitigate future flooding and organized a county-wide meeting on October 9, 2019 to urge municipalities to work together with the County on this critical issue; and,

WHEREAS, in response to that call to action from the County Commissioners ten municipalities in the southwestern part of the County embraced that call to action and have worked to develop strong sustainable inter-governmental relationships that have enabled municipal officials to work collaboratively in finding ways to mitigate future flooding, as it is understood that what one community does in regard to stormwater impacts their neighbors downstream; and,

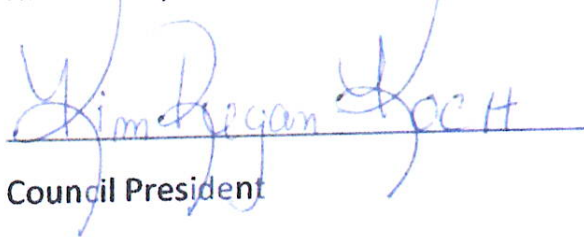
WHEREAS, those communities have worked diligently to develop a unified approach in identifying priority projects to mitigate future flooding, which was documented in a group effort to develop the Lower Connoquenessing Stormwater Planning Study dated April 28, 2021, adopted by each of the municipal governing bodies, as well as by the Butler County Commissioners; and,

WHEREAS, the Butler County Commissioners has further demonstrated their commitment to mitigate future flooding by funding the Municipal Infrastructure Grant Program to support water related improvements; and,

NOW, THEREFORE BE IT RESOLVED, that the Borough Council continues to endorse this collaborative effort by supporting the applications being submitted by the members of this Group to advance projects identified by this Group, with those applications being submitted by the following members;

Boroughs of Evans City, Harmony, Seven Fields and Zelienople and the Townships of Adams, Cranberry, Forward, Jackson, Lancaster and Penn.

RESOLVED, and APPROVED by the Borough Council) this 8th day of August, 2022

A handwritten signature in blue ink, appearing to read "Kim Regan", is written over a horizontal line.

Council President

(Borough Council)

A handwritten signature in blue ink, consisting of stylized initials, is written over a horizontal line.

Borough Secretary

RESOLUTION #475-22
BOROUGH OF ZELIENOPLE
Butler County, Pennsylvania

**A RESOLUTION OF THE BOROUGH COUNCIL OF ZELIENOPLE
SUPPORTING THE APPLICATION OF THE GRANT TO THE “BUTLER
COUNTY MUNICIPAL INFRASTRUCTURE PROGRAM” FOR A MULTI-
MUNICIPAL STUDY OF CURRENT AND EMERGING COSTS RELATED
TO STORMWATER MANAGEMENT**

WHEREAS in 2019 Butler County experienced horrific flooding events throughout the County that impacted many properties and lives in nearly every municipality in the County; and,

WHEREAS County Commissioners Leslie Osche, Kim Geyer and Kevin Boozel understood multi-municipal action was needed to mitigate future flooding and organized a county-wide meeting on October 9, 2019, to urge municipalities to work together with the County on this critical issue; and,

WHEREAS, in response to that call to action from the County Commissioners ten municipalities in the southwestern part of the County embraced that call to action and have worked to develop strong sustainable inter-governmental relationships that have enabled municipal officials to work collaboratively in finding ways to mitigate future flooding, as it is understood that what one community does in regard to stormwater impacts their neighbors downstream; and,

WHEREAS those communities have worked diligently to develop a unified approach in identifying priority projects to mitigate future flooding, which was documented in a group effort to develop the Lower Connoquenessing Stormwater Planning Study dated April 28, 2021, adopted by each of the municipal governing bodies, as well as by the Butler County Commissioners; and,

WHEREAS, the Butler County Commissioners has further demonstrated their commitment to mitigate future flooding by funding the Municipal Infrastructure Grant Program to support water related improvements; and,

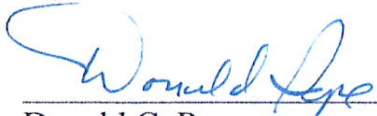
supporting the applications being submitted by the members of this Group to advance projects identified by this Group, with those applications being submitted by the following members;

Boroughs of Evans City, Harmony, Seven Fields and Zelienople and the Townships of Adams, Cranberry, Forward, Jackson, Lancaster, and Penn.

RESOLVED, and APPROVED by the Borough Council this 25th day of July 2022.

ATTEST:

BOROUGH OF ZELIENOPLE



Donald C. Pepe
Borough Manager



Mary E. Hess
President of Council



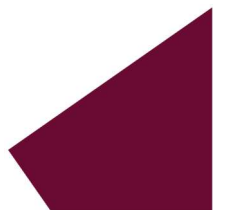
Thomas M. Oliverio
Mayor



A4

Appendix 4:

Lower
Connoquenessing
Study



7. EVANS CITY BOROUGH

7.1 Overview

Evans City Borough is generally comprised of one (1) watershed that is tributary to the Connoquenessing Creek at the western border of Butler County: Breakneck Creek. While smaller watersheds exist within Evans City Borough, the aforementioned watershed encompasses the entirety of the municipality's drainage area for this study.



Figure 4A: Evans City Borough (PADEP EMAP)

7.2 Identified Problem Areas

Evans City Borough provided three (3) projects for consideration. All three (3) projects are within the Breakneck Creek watershed.

- > Investigate the benefits and costs to develop a Capital Improvement/Maintenance Plan for the Borough's stormwater system. The goal for the plan would be more efficient use of resources and capital to address nuisance stormwater issues that impact the Borough.
- > Evaluate the costs to upgrade an existing stormwater conveyance system in the Borough. HRG to work with and assist the Borough in finalizing the locations after site visit and map review with the Borough. Study area most likely in the northeast portion of the Borough.
- > Evaluate upstream opportunities along Breakneck Creek to construct flood control measures that may benefit the Borough.

7.3 Project Overview

Benefit/Cost Analysis for Capital Improvement/Maintenance Plan

The Borough's stormwater system consists of a combination of storm sewers and their typical appurtenances, along with open channels and swales along some roadways. The system is ultimately tributary to Breakneck Creek, which flows primarily from southeast to northwest through the center of the Borough. The Borough allocates a portion of their annual budget to the operation and maintenance of the system, with the primary activities being repair, cleaning, or replacement of facilities in response to resident complaints or facility failure. There are numerous locations of frequent and localized flooding during rainfall events.



Figure 4B: Site Photo

Based upon HRG's field investigations and coordination with Borough officials, a primary recommendation would be for the Borough to undertake a comprehensive condition assessment of its stormwater management system, to include the identification of flooding problem areas and the identification and mapping of the Borough's stormwater assets. The results of this assessment would form the basis of an up-to-date Operation and Maintenance/Capital Improvement Plan for the system.

The intent of the Plan would be to allow the Borough to properly plan for the work and funding of not only the required annual

cleaning and maintenance activities, but for the identification, prioritization, and scheduling of recommended capital improvements and flooding mitigation projects.

The Plan could be developed in phases, to even include "simple" solutions to immediate flooding issues such as the cleaning of pipes or the installation of flap gates or backflow preventers. It would also be complimentary to the other efforts described in this report, as it should include the development of funding strategies for the implementation of conveyance system improvements and longer-term projects.

Costs for the O&M/CIP Planning Effort would range from approximately \$20,000 for an initial assessment to \$100,000 - \$150,000 for a Plan that should include mapping, project planning, conceptual design, and funding alternatives.



Figure 4C: Site Photo

Stormwater Conveyance System Improvements

The northeast portion of the Borough has very few adequate stormwater management facilities, which include storm sewers, swales, and curbed roadways. In conjunction with the overall O&M/CIP Planning efforts, the Borough should study both the extent of the existing facilities as well as the potential for the installation of new facilities. A phased approach to their design and installation could allow for appropriate funding considerations.

The study should include surveying, mapping, determination of any required permitting, identification of grants or other funding opportunities, and levels of service that are desired.

Costs of such a study would range from \$25,000 for localized areas to approximately \$150,000 to cover the entire quadrant of the Borough.



Figure 4D: Site Photo

Regional Flood Control Measures

Flood control measures along Breakneck Creek are not recommended at this time since a dam certification, hazard mitigation analysis, and/or a large encroachment would most likely be needed. Most importantly, a dam within the Breakneck Creek watershed would move flooding from one place to another, thus creating a new problem along Breakneck Creek upstream of Evans City Borough. However, improvements within the Breakneck Creek watershed are proposed within this study for multiple municipalities upstream of Evans City Borough.