pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

ANNUAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) STATUS REPORT

FOR THE PERIOD JULY 1, 2021 TO JUNE 30, 2022

GENERAL INFORMATION			
Permittee Name:	**Borough of Fountain Hill**	NPDES Permit No.:	PA**G132250**
Mailing Address:	**941 Long Street**	Effective Date:	**06.26.2018**
City, State, Zip:	**Fountain Hill, PA 18015**	Expiration Date:	**03.15.2023**
MS4 Contact Person:	**Eric Gratz**	Renewal Due Date:	
Title:	**Borough Manager**	Municipality:	**Borough of Fountain Hill**
Phone:	**610.867.0301**	County:	**Lehigh**
Email:	**egratz@fhboro.org**		

Co-Permittees (if applicable): **N/A**

Appendix(ces) that permittee is subject to (select all that apply):

☐ Appendix A ☐ Appendix B ☒ Appendix C ☐ Appendix D ☒ Appendix E ☐ Appendix F

WATER QUALITY INFORMATION

Are there any discharges to waters within the Chesapeake Bay Watershed? ☐ Yes ☒ No

Identify all surface waters that receive stormwater discharges from the permittee's MS4 and provide the requested information (see instructions).

Receiving Water Name	Ch. 93 Class.	Impaired?	Cause(s)	TMDL?	WLA?
Lehigh River	WWF, MF	Yes	Urban Runoff/Storm Sewers - Siltation; Combined Sewer Overflow - Suspended Solids; Municipal Point Source - Organic Enrichment/Low D.O.	No	No

GENERAL MINIMUM CONTROL MEASURE (MCM) INFORMATION

Have you completed all MCM activities required by the permit for this reporting period? ☒ Yes ☐ No

List the current entity responsible for implementing each MCM of your SWMP, along with contact name and phone number.

MCM	Entity Responsible	Contact Name	Phone
#1 Public Education and Outreach on Storm Water Impacts	**Borough of Fountain Hill**	**Eric Gratz, Borough Manager**	**610.867.0301**
#2 Public Involvement/Participation	**Borough of Fountain Hill**	**Eric Gratz, Borough Manager**	**610.867.0301**
#3 Illicit Discharge Detection and Elimination (IDD&E)	**Borough of Fountain Hill**	**Jason Quarry, Public Works Supervisor**	**610.954.8134**
#4 Construction Site Storm Water Runoff Control	**Hanover Engineering**	**J. Bradley Youst, PE, Borough Engineer for PC and ZHB**	**610.691.5644**
#5 Post-Construction Storm Water Management in New Development and Redevelopment	**Hanover Engineering**	**J. Bradley Youst, PE, Borough Engineer for PC and ZHB**	**610.691.5644**
#6 Pollution Prevention / Good Housekeeping	**Borough of Fountain Hill**	**Jason Quarry, Public Works Supervisor**	**610.954.8134**

MCM #1 – PUBLIC EDUCATION AND OUTREACH ON STORM WATER IMPACTS

BMP #1: Develop, implement and maintain a written Public Education and Outreach Program.

1. For new permittees only, has the written PEOP been developed and implemented within the first year of permit coverage?

   ☐ Yes ☐ No

2. Date of latest annual review of PEOP: **September 2022** Were updates made? ☒ Yes ☐ No

3. What were the plans and goals for public education and outreach for the reporting period?

The plans and goals of the Public Education and Outreach Plan (PEOP) for the reporting period was to inform as many individuals as possible, including builders, land developers, students, residents, and Municipal employees of the importance of stormwater and the effects stormwater has on water quality and quantity.

The PEOP identified numerous methods for the distribution of information, including the posting of information concerning MS4 regulations on the Borough's website; obtaining and/or developing newsletter articles to be sent to residents and made available on the website; hanging posters provided by the PA DEP and EPA in the Borough building and other public locations; adding information to the digital message board in the Borough lobby; providing public presentations to educate interested residents about stormwater management; providing a presentation to builders and land developers on stormwater management impacts, solutions, and regulatory requirements; providing educational materials on stormwater management to local schools for distribution to students; providing a website link to local schools for stormwater educational games and activity books, e.g., Stormwater Sentries, PA DEP's Kids Activities Book, etc.; locating central information centers in the Borough to post public information concerning stormwater-related issues; distributing "When it Rains, it Drains" brochure through mailings to homes and businesses; enacting Municipal program(s) to identify and label all catch basins; and coordinating with adjacent municipalities to plan for the most effective use of money, staff, and resources to effectively educate citizens about stormwater and its effects.

4. Did the MS4 achieve its goal(s) for the PEOP during the reporting period? ☒ Yes ☐ No

5. Identify specific plans and goals for public education and outreach for the upcoming year:

The Borough should continue maintaining/frequently updating the website to offer new stormwater information, look for methods to continually improve outreach to all target audiences, and maintain postings in public areas. The Borough distributed a newsletter in November 2018; however no newsletters have been distributed since. The Borough should consider newsletters in the future. The Borough should also look to other specific methods identified in the PEOP that are still being developed, including but not limited to, providing public presentations and presentations to builders and land developers, continuing to update the Borough's website to include MS4 and stormwater information, distributing educational materials to schools, enacting Municipal programs to identify and label catch basins, and exploring opportunities with adjacent municipalites. The Borough plans to continue working with the Lehigh County MS4 roundtable group to identify additional measures or collaborations that may be undertaken to increase public involvement and participation.

BMP #2: Develop and maintain lists of target audience groups present within the areas served by your MS4.

1. For new permittees only, have the target audience lists been developed and implemented within the first year of permit coverage?

☐ Yes ☐ No

2. Date of latest annual review of target audience lists: **September 2022** Were updates made? ☐ Yes ☒ No

BMP #3: Annually publish at least one educational item on your Stormwater Management Program.

1. For new permittees only, were stormwater educational and informational items produced and published in print and/or on the Internet within the first year of permit coverage?

☐ Yes ☐ No

2. Date of latest annual review of educational materials: **September 2022** Were updates made? ☐ Yes ☒ No

3. Do you have a municipal website? ☒ Yes ☐ No (URL: **www.fountainhill.org)**

If Yes, what MS4-related material does it contain?

The website has a "Stormwater" specific tab that contains information about the Stormwater Authority and the Borough's Stormwater Management Program including the Credit Policies and Procedures Manual, Credit Application, related Agreements/Forms, fee schedule, financials, Agendas, and Meeting Minutes; the Storm Water Management FAQ with thorough explanations to the Borough's Stormwater Management Program; a make a payment link; an overview of the Borough's MS4 Storm Water Management program including the "Residential Causes of Stormwater Pollution" brochure, a copy of the Borough's PRP, the PA DEP publication "Homeowners Guide to Stormwater BMP Maintenance," the Fountain Hill Borough MS4 Program PowerPoint presentation made at the Public Meeting initially addressing the proposed stormwater fee; the "Good Housekeeping Practices for…Auto Maintenance, Repair, and Fueling Operations" handout, and pet waste, car washing and fertilizer EPA posters. All of the documents contained under the Stormwater tab are provided as supplemental information to MCM #1 attached to this Report. The Borough will continue developing material to be published under this tab. The Borough's Code of Ordinances is also available on the website under "Departments" tab and "Code of Ordinances." Website visitors may also click on the "Home" / "Community Links" tab that provides a link to the PA DEP website as well as links to neighboring municipalites who have published MS4 information that would be relevant for the residents of the Borough and information on Recycling and Waste Management under the "Residents & Businesses" tab.

4. Describe any other method(s) used during the reporting period to provide information on stormwater to the public:

Through the Borough's Moving Permit requirement, the Borough is made aware of anyone moving in, out, and/or within the Borough. This provides the Borough with the opportunity to update resident mailing address (for possible future newsletter distribution) as well as providing new residents with approved pamphlets and brochures relating to MS4 and stormwater management.

The Borough initially launched a Facebook page in December 2017, but had to temporarily discontinue the page during the last two reporting periods until a formal Social Media Policy was in place. As of the current reporting period, the Borough's Facebook page was relaunched as the Official page for the Borough on Sepember 20, 2021, and there are currently 593 people following the page. The Borough posts an average of once per day and many posts include

information regarding stormwater information (including a link to the previous Annual Status Report), community events, leaf collection and recycling and waste pickup announcements, Council Agendas and live meeting streams, and Stormwater Authority Agendas. The Borough's Facebook page, and social media in general, is an effective tool for distributing information. Moving forward, the Borough should consider adding more MS4-related information.

5. Identify specific plans for the publication of stormwater materials for the upcoming year:
The Borough Manager and Stormwater Authority will be working with the Borough Engineer to develop new materials to be used on the website, made available to the public at the Borough Office, and/or published in future Borough Newsletters. The Public Education and Outreach Plan will continue to be implemented and calls for appropriate public education and outreach materials through various effective media, including tracking of accomplishments throughout the permit term. Regular reports to the PA DEP will include copies of all materials presented, distributed, and made available to the public. The Borough will look to add additional MS4-related information under the Stormwater tab on their website.

BMP #4: Distribute stormwater educational materials to the target audiences.

Identify the two additional methods of distributing stormwater educational materials during the previous reporting period (e.g., displays, posters, signs, pamphlets, booklets, brochures, radio, local cable TV, newspaper articles, other advertisements, bill stuffers, posters, presentations, conferences, meetings, fact sheets, giveaways, or storm drain stenciling).

The Borough is distributing MS4-related material through pamphlets made available at the Borough office and through handouts made available as part of the Moving Permit. The Borough has installed a television in the Lobby that loops various Borough information, including MS4-related materials. Copies of the materials presented are provided as supplemental information to MCM#1 attached to this report.

MCM #1 Comments:

The Borough will plan to improve and frequently update the website to offer new and/or updated stormwater information, look for methods to continually improve public outreach, and maintain postings in public areas.

MCM #2 – PUBLIC INVOLVEMENT/PARTICIPATION

BMP #1: Develop, implement and maintain a written Public Involvement and Participation Program (PIPP)

1. For new permittees only, was the PIPP developed and implemented within one year of permit coverage?

   ☐ Yes ☐ No

2. Date of latest annual review of PIPP: **September 2022** Were updates made? ☒ Yes ☐ No

BMP #2: Advertise to the public and solicit public input on ordinances, SOPs, Pollutant Reduction Plans (PRPs) (if applicable) and TMDL Plans (if applicable), including modifications thereto, prior to adoption or submission to DEP:

1. Was an MS4-related ordinance, SOP, PRP or TMDL Plan developed during the reporting period? ☐ Yes ☒ No

2. If Yes, describe how you advertised the draft document(s) and how you provided opportunities for public review, input and feedback:

3. If an ordinance, SOP or plan was developed or amended during the reporting period, provide the following information:

Ordinance / SOP / Plan Name	Date of Public Notice	Date of Public Hearing	Date Enacted or Submitted to DEP

BMP #3: Regularly solicit public involvement and participation from the target audience groups using available distribution and outreach methods.

1. At least one public meeting or other MS4 event must be held during the 5-year permit coverage period to solicit participation and feedback from target audience groups. Was this meeting or event held during the reporting period?

   ☒ Yes ☐ No If Yes, Date of Meeting or Event: **November 14, 2019**

2. Report instances of cooperation and participation in MS4 activities; presentations the permittee made to local watershed and conservation organizations; and similar instances of participation or coordination with organizations in the community.

   A Public Meeting was held on November 14, 2019 at the Laros Auditorium at St. Luke's Hospital to explain the Borough's MS4 Program in depth and discuss the soon to be (at that time) established Borough of Fountain Hill Stormwater Authority, the proposed fees, and reasons why the Authority is being established. This was reported in the 2019-2020 MS4 Annual Report.

   The Lehigh Valley Planning Commission (LVPC) formed the Lehigh Valley General Assembly to help prepare for future changes in the Valley. Consistent with the LVPC's mission, it is likely topics relating to MS4 will be discussed during the Assembly meetings. There have been six (6) meetings to date and the most recent held virtually on March 30, 2021. Representatives from the Borough have been in attendence in the past.

   The Lehigh County Conservation District also hosts an MS4 Roundtable Meeting with all Lehigh County MS4 municipalities invited. These meetings are typically held quarterly and attendees from the Borough are present. Discussion topics range from compliance, inspection, and MS4 management, and many include speakers from agencies such as PA DEP, PA Fish and Boat Commission, PennDOT, etc.

3. Report activities in which members of the public assisted or participated in the meetings and in the implementation of the SWMP, including education activities or efforts such as cleanups, monitoring, storm drain stenciling, or others.

All public meetings have a public involvement component which solicits input from the audience/public. Copies of Borough Council Meeting Minutes and the Stormwater Authority Minutes where MS4-related topics were discussed are provided as supplemental information to MCM #2 attached to this report.

The Borough is also encouraging property owners to plant trees on their property and notify the Borough for tracking purposes. The Borough is exploring a way to track tree plantings on their website.

MCM #2 Comments:

MCM #3 – ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDD&E)

BMP #1: Develop and implement a written program for the detection, elimination, and prevention of illicit discharges into the regulated small MS4.

1. For new permittees only, was the written IDD&E program developed within one year of permit coverage?

☐ Yes ☐ No

2. Date of latest annual review of IDD&E program: **September 2022** Were updates made? ☒ Yes ☐ No

BMP #2: Develop and maintain map(s) that show permittee and urbanized area boundaries, the location of all outfalls and, if applicable, observation points, and the locations and names of all surface waters that receive discharges from those outfalls. Outfalls and observation points shall be numbered on the map(s).

1. Have you completed a map(s) that includes all components of BMP #2? ☒ Yes ☐ No

If Yes and you are a new permittee and have not submitted the map(s) previously, attach the map(s) to this report.

If No, date by which permittee expects map(s) to be completed:

2. Date of last update or revision to map(s): **March 6, 2018**

3. Total No. of Outfalls in MS4: **59** Total No. of Outfalls Mapped: **59**

4. Total No. of Observation Points: **0** Total No. of Observation Points Mapped: **0**

5. During the reporting period, have you identified any existing outfalls that have not been previously reported to DEP in an NOI, application or annual report, or are any new MS4 outfalls proposed for the next reporting period?

☐ Yes ☒ No If Yes, select: ☐ Existing Outfall(s) Identified ☐ New Outfall(s) Proposed

BMP #3: In conjunction with the map(s) created under BMP #2 (either on the same map or on a different map), the permittee shall develop and maintain map(s) that show the entire storm sewer collection system within the permittee's jurisdiction that are owned or operated by the permittee (including roads, inlets, piping, swales, catch basins, channels, and any other components of the storm sewer collection system), including privately-owned components of the collection system where conveyances or BMPs on private property receive stormwater flows from upstream publicly-owned components.

1. Have you completed a map(s) that includes all components of BMP #3? ☒ Yes ☐ No

   If Yes and you are a new permittee and have not submitted the map(s) previously, attach the map(s) to this report.

   If No, date by which permittee expects map(s) to be completed:

2. If Yes to #1, is the map(s) on the same map(s) as for outfalls and receiving waters? ☐ Yes ☒ No

3. Date of last update or revision to map(s): **June 2020**

BMP #4: Conduct dry weather screenings of MS4 outfalls to evaluate the presence of illicit discharges. If any illicit discharges are present, the permittee shall identify the source(s) and take appropriate actions to remove or correct any illicit discharges. The permittee shall also respond to reports received from the public or other agencies of suspected or confirmed illicit discharges associated with the storm sewer system, as well as take enforcement action as necessary. The permittee shall immediately report to DEP illicit discharges that would endanger users downstream from the discharge or would otherwise result in pollution or create a danger of pollution or would damage property.

For new permittees, all identified outfalls (and if applicable observation points) must be screened during dry weather at least twice within the 5-year period following permit coverage. For existing permittees, all identified outfalls (and if applicable observation points) must be screened during dry weather at least once within the 5-year period following permit coverage and, for areas where past problems have been reported or known sources of dry weather flows occur on a continual basis, outfalls must be screened annually during each year of permit coverage.

1. How many unique outfalls (and if applicable observation points) were screened during the reporting period? 52

2. Indicate the percentage of all outfalls screened in the past five years. 88%

3. Indicate the percent of outfalls screened during the reporting period that revealed dry weather flows: 0%

4. Did any dry weather flows reveal color, turbidity, sheen, odor, floating or submerged solids? ☐ Yes ☐ No ☒ N/A

5. If Yes for #4, attach all sample results to this report with a map identifying the sample location. Explain the corrective action(s) taken in the attachment.

6. Do you use the MS4 Outfall Field Screening Report form (3800-FM-BCW0521) provided in the permit?

   ☒ Yes ☐ No

   If No, attach a copy of your screening report form.

BMP #5: Enact a Stormwater Management Ordinance or SOP to implement and enforce a stormwater management program that includes prohibition of non-stormwater discharges to the regulated small MS4.

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that prohibits non-stormwater discharges? ☒ Yes ☐ No

   If Yes, indicate the date of the ordinance or SOP: **April 18, 2007; new Ordinance to be adopted October/November 2022**

2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j) with respect to authorized non-stormwater discharges? ☒ Yes ☐ No

   If Yes to #2 and the ordinance or SOP has not been submitted to DEP previously, attach the ordinance or SOP.

3. Were there any violations of the ordinance or SOP during the reporting period? ☐ Yes ☒ No

   If Yes to #3, complete the table below (attach additional sheets as necessary).

Violation Date	Nature of Violation	Responsible Party	Enforcement Taken

4. Did you approve any waiver or variance during the reporting period that allowed an exception to non-stormwater discharge provisions of an ordinance or SOP? ☐ Yes ☒ No

   If Yes to #4, identify the entity that received the waiver or variance and the type of non-stormwater discharge approved.

BMP #6: Provide educational outreach to public employees, business owners and employees, property owners, the general public and elected officials (i.e., target audiences) about the program to detect and eliminate illicit discharges.

1. Was IDD&E-related information distributed to public employees, businesses, and the general public during the reporting period? ☒ Yes ☐ No

   If Yes, what was distributed? **The brochure "When it Rains, it Drains" has been distributed and made available at the Borough office building. The brochure identifies to readers what constitues the storm sewer and encourages people to look for signs of soil and other pollutants leaving construction sites or tracked onto roads. The brochure implores people to contact the Borough or the PA DEP.**

2. Is there a well-publicized method for employees, businesses and the public to report stormwater pollution incidents?

   ☒ Yes ☐ No

3. Do you maintain documentation of all responses, action taken, and the time required to take action? ☒ Yes ☐ No

MCM #3 Comments:

The Borough will be undertaking a sanitary sewer rehabilitation project and they recently completed televising the entire sanitary sewer system to determine the ultimate rehabilitation scope of work. During the televising, and subsequent evaluations, one (1) illicit discharge was discovered to be connected to the Borough's storm sewer system. This issue was remedied immediately.

MCM #4 – CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

Are you relying on PA's statewide program for stormwater associated with construction activities to satisfy this MCM?

☒ Yes ☐ No

(If Yes, respond to questions for BMP Nos. 1, 2 and 3 only in this section. If No, respond to questions for all BMPs in this section)

BMP #1: The permittee may not issue a building or other permit or final approval to those proposing or conducting earth disturbance activities requiring an NPDES permit unless the party proposing the earth disturbance has valid NPDES Permit coverage (i.e., not expired) under 25 Pa. Code Chapter 102.

During the reporting period, did you comply with 25 Pa. Code § 102.43 (relating to withholding building or other permits or approvals until DEP or a county conservation district (CCD) has approved NPDES permit coverage)?

☐ Yes ☐ No ☒ Not Applicable (no building permit applications received)

BMP #2: A municipality or county which issues building or other permits shall notify DEP or the applicable CCD within 5 days of the receipt of an application for a permit involving an earth disturbance activity consisting of one acre or more, in accordance with 25 Pa. Code § 102.42.

During the reporting period, did you comply with 25 Pa. Code § 102.42 (relating to notifying DEP/CCD within 5 days of receiving an application involving an earth disturbance activity of one acre or more)?

☐ Yes ☐ No ☒ Not Applicable (no building permit applications received)

BMP #3: Enact, implement and enforce an ordinance or SOP to require the implementation and maintenance of E&S control BMPs, including sanctions for non-compliance, as applicable.

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that requires implementation and maintenance of E&S control BMPs? ☒ Yes ☐ No

   If Yes, indicate the date of the ordinance or SOP: **April 18, 2007; new Ordinance to be adopted October/November 2022**

2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j)? ☒ Yes ☐ No

3. If Yes to #2 and the ordinance or SOP has not been submitted previously, attach a copy of the ordinance or SOP.

BMP #4: Review Erosion and Sediment (E&S) control plans to ensure that such plans adequately consider water quality impacts and meet regulatory requirements.

Specify the number of E&S Plans you reviewed during the reporting period:

BMP #5: Conduct inspections regarding installation and maintenance of E&S control measures during earth disturbance activities. Maintain records of site inspections, including dates and inspection results, in accordance with the record retention requirements in this permit.

Specify the number of E&S inspections you completed during the reporting period:

BMP #6: Conduct enforcement when installation and maintenance of E&S control measures during earth disturbance activities does not comply with permit and/or regulatory requirements.

Specify the number of enforcement actions you took during the reporting period for improper E&S:

BMP #7: Develop and implement requirements for construction site operators to control waste at construction sites that may cause adverse impacts to water quality. The permittee shall provide education on these requirements to construction site operators.

Specify the method(s) by which you are educating construction site operators on controlling waste at construction sites:

BMP #8: Develop and implement procedures for the receipt and consideration of public inquiries, concerns, and information submitted by the public to the permittee regarding local construction activities.

1. A tracking system has been established for receipt of public inquiries and complaints. ☐ Yes ☐ No

2. Specify the number of inquiries and complaints received during the reporting period:

MCM #4 Comments:

MCM #5 – POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

BMP #1: Enact, implement and enforce an ordinance or SOP to require post-construction stormwater management from new development and redevelopment projects, including sanctions for non-compliance.

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that requires implementation and maintenance of post-construction stormwater management (PCSM) BMPs? ☒ Yes ☐ No

   If Yes, indicate the date of the ordinance or SOP: **April 18, 2007; new Ordinance to be adopted October/November 2022**

2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j)? ☒ Yes ☐ No

3. If Yes to #2 and the ordinance or SOP has not been submitted previously, attach a copy of the ordinance or SOP.

BMP #2: Develop and implement measures to encourage and expand the use of Low Impact Development (LID) in new development and redevelopment. Measures should also be included to encourage retrofitting LID into existing development. Enact ordinances consistent with LID practices and repeal sections of ordinances that conflict with LID practices.

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that encourages and expands the use of LID in new development and redevelopment? ☒ Yes ☐ No

   If Yes, indicate the date of the ordinance or SOP: **April 18, 2007; new Ordinance to be adopted October/November 2022**

2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j)? ☒ Yes ☐ No

3. If Yes to #2 and the ordinance or SOP has not been submitted previously, attach a copy of the ordinance or SOP.

BMP #3: Ensure adequate O&M of all post-construction stormwater management BMPs that have been installed at development or redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale.

1. Do you have an inventory of all PCSM BMPs that were installed to meet requirements in NPDES Permits for Stormwater Discharges Associated with Construction Activities approved since March 10, 2003? ☒ Yes ☐ No

   If Yes to #1, complete Table 1 on the next page.

2. Has proper O&M occurred during the reporting period for all PCSM BMPs? ☒ Yes ☐ No

3. If No to #2, explain what action(s) the permittee has taken or plans to take to ensure proper O&M.

   The Borough is in communication as of the date of this report to address repairs identified in the 2020 Inspection. Additional correspondence relating to the resolution of either a new inspection and/or proof of repairs will be provided with the 2022-2023 Annual Report. It is worth noting this BMP was visited during the Borough's MS4 Inspection with the Department on June 23, 2021 and no noted deficiencies or repairs were noted.

If you are relying on PA's statewide program for stormwater associated with construction activities, you may skip to MCM #6, otherwise complete all questions for BMPs #4 - #6 in this section.

BMP #4: Require the implementation of a combination of structural and/or non-structural BMPs that are appropriate to the local community, that minimize water quality impacts, and that are designed to maintain pre-development runoff conditions.

1. Specify the number of PCSM Plans reviewed during the reporting period for projects disturbing greater than or equal to one acre (including projects less than one acre that are part of a larger common plan of development or sale):

2. Has a tracking system been established and maintained to record qualifying projects and their associated BMPs?

   ☐ Yes ☐ No

PCSM BMP INVENTORY

Table 1. To complete the information needed for MCM #5, BMP #3, list all existing structural BMPs that discharge stormwater to the permittee's MS4 that were installed to satisfy PCSM requirements for earth disturbance activities under Chapter 102, and provide the requested information (see instructions).

BMP No.	BMP Name	DA (ac)	Entity Responsible for O&M	Latitude	Longitude	Date Installed	O&M Requirements	NPDES Permit No.
1	**Underground detention/retention with spray irrigation**	**2.35**	**DHD Ventures, Fountain Hill** **1529 Broadway** **Fountain Hill, PA 18015**	40°35'59"	75°24'10"	**09.2011**	**Semi-Annual**	**PAG02-0039-10-012**
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3				° ' "	° ' "			
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15				° ' "	° ' "			
16				° ' "	° ' "			

BMP #5: Ensure that controls are installed that shall prevent or minimize water quality impacts. The permittee shall inspect all qualifying development or redevelopment projects during the construction phase to ensure proper installation of the approved structural PCSM BMPs. A tracking system (e.g., database, spreadsheet, or written list) shall be implemented to track the inspections conducted and to track the results of the inspections (e.g., BMPs were, or were not, installed properly).

1. During the reporting period have you inspected all qualifying development and redevelopment projects during the construction phase to ensure proper installation of approved structural BMPs?

   ☐ Yes ☐ No ☐ Not Applicable (no qualifying projects during reporting period)

2. Has a tracking system been established and maintained to record results of inspections?

   ☐ Yes ☐ No

BMP #6: Develop a written procedure that describes how the permittee shall address all required components of this MCM.

Have you developed a written plan that addresses: 1) minimum requirements for use of structural and/or non-structural BMPs in plans for development and redevelopment; 2) criteria for selecting and standards for sizing stormwater BMPs; and 3) implementation of an inspection program to ensure that BMPs are properly installed? ☐ Yes ☐ No

MCM #5 Comments:

The PA DEP conducted an MS4 Inspection on June 23, 2021 that resulted in no violations noted. As part of the inspection, the Department conducted an inspection of the Bottom Dollar PCSM BMP. A copy of the Department's MS4 Inspection Form has been provided as supplemental information to MCM #5.

MCM #6 – POLLUTION PREVENTION / GOOD HOUSEKEEPING

BMP #1: Identify and document all operations that are owned or operated by the permittee and have the potential for generating pollution in stormwater runoff to the MS4. This includes activities conducted by contractors for the permittee.

1. Have you identified all facilities and activities owned and operated by the permittee that have the potential to generate stormwater runoff into the MS4? ☒ Yes ☐ No

2. When was the inventory last reviewed? **September 2022**

3. When was it last updated? **September 2022**

BMP #2: Develop, implement and maintain a written O&M program for all operations that could contribute to the discharge of pollutants from the MS4, as identified under BMP #1. This program shall address stormwater collection or conveyance systems within the regulated MS4.

1. Have you developed a written O&M program for the operations identified in BMP #1? ☒ Yes ☐ No

2. Date of last review or update to written O&M program: **September 2022**

BMP #3: Develop and implement an employee training program that addresses appropriate topics to further the goal of preventing or reducing the discharge of pollutants from operations to the regulated small MS4. All relevant employees and contractors shall receive training.

1. Have you developed an employee training program? ☒ Yes ☐ No

2. Date of last review or update to training program: **September 2022** Date of latest training: **Ongoing per Training Program, including frequent "Tailgate" meetings.**

3. Training topics covered:

   Tailgate Trainings relating to IDD&E and Inlet Filter Bag Cleaning and Maintenance.

4. Name(s) of training presenter(s):

   Tailgate Trainings described above presented by Jason Quarry on the following dates: July 16, 2021, August 12, 2021, August 26, 2021, September 2, 2021, September 10, 2021, October 28, 2021, December 10, 2021, February 11, 2022, March 4, 2022, March 28, 2022, April 26, 2022, May 26, 2022, and June 28, 2022.

5. Names of training attendees:

   All Public Works Staff.

MCM #6 Comments:

Jones|Carter Engineering online training scheduled Fall 2022 for all Public Works Staff. The Borough pool was in operation in 2021, but not in 2022. The status of the pool operation remains unknown at the time, but has been left on the Borough's Faiclities Inventory until such time that a decision regarding the pool is made.

POLLUTANT CONTROL MEASURES (PCMs)

Indicate the status of implementing PCMs in Appendices A, B and/or C by completing the table below. Skip this section if PCMs are not applicable.

Task	Date Completed	Attached	Anticipated Completion Date
Storm Sewershed Map(s)	**August 8, 2017**	☒	
Source Inventory	**September 2020**	☒	
Investigation of Suspected Sources	**September 2020**	☒	**N/A - Nothing Suspected**
Ordinance/SOP for Controlling Animal Wastes	**N/A**	☐	

PCM Comments:

The Borough and its history was reviewed as part of this Appendix C requirement and no known or suspected inventories were discovered. The PCB impairment that occurs approximately 3 miles downstream of the Borough's boundary is likely due to other potential past or present sources.

POLLUTANT REDUCTION PLANS (PRPs) AND TMDL PLANS

1. Complete this section if the development and submission of a PRP and/or TMDL Plan was required as an attachment to the latest NOI or application or was required by the permit, regardless of whether DEP has approved the plan(s).

Type of Plan	Submission Date	DEP Approval Date	Surface Waters Addressed by Plan
☐ Chesapeake Bay PRP (Appendix D)			Chesapeake Bay
☒ Impaired Waters PRP (Appendix E)	**September 17, 2017, last revised June 20, 2018**	**June 26, 2018**	**Lehigh River**
☐ TMDL Plan (Appendix F)			
☐ Combined Chesapeake Bay / Impaired Waters PRP			Chesapeake Bay,
☐ Combined PRP / TMDL Plan			

☐ Joint Plan *(if checked, list the name of the MS4 group or names of all entities participating in the joint plan below)*

Joint Plan Participants:

2. Identify the pollutants of concern and pollutant load reduction requirements under the permit (see instructions).

Type of Plan	TSS Load Reduction (lbs/yr)	TP Load Reduction (lbs/yr)	TN Load Reduction (lbs/yr)
☐ Chesapeake Bay PRP (Appendix D)			
☒ Impaired Waters PRP (Appendix E)	**Total - 29,002.9 10% Reduction - 2,900.3**	**N/A - 5% assumed based on the 10% sediment reduction**	**N/A**
☐ TMDL Plan (Appendix F)			
☐ Combined Chesapeake Bay / Impaired Waters PRP			
☐ Combined PRP / TMDL Plan			

3. Date Final Report Demonstrating Achievement of Pollutant Load Reductions Due: **September 30, 2023**

4. Have any modifications to the plan(s) occurred since DEP approval? ☐ Yes ☒ No

If Yes to #4, was the updated plan(s) submitted to DEP? ☐ Yes ☐ No

If Yes to #4, did you comply with the public participation requirements of the applicable appendix? ☐ Yes ☐ No

If Yes to #4, describe the plan modifications.

5. Summary of progress achieved during reporting period.

The Borough has been cleaning and maintaining the forty (40) installed inlet filter bags. Please refer to Table 3 below and supplemental information provided in the PRP Implementation section at the end of this Annual Report. The Borough Public Works Department has removed 7,487 pounds (dry weight) of sediment during this reporting period and a total of 12,149 pounds (dry weight) of sediment during this Permit Term. The approved PRP required the Borough to meet 2,900.3 pounds of sedment per year. Based on the performance of the inlet filter bags and proposed future BMPs, the Borough should achieve the required sediment reductions.

6. Anticipated activities for next reporting period.

The Borough will continue to regularly clean (and maintain/replace) the inlet filter bags and assess their efficiencies in relation to the amount of sediment removal needed to fulfill the requirements of the PRP. If shortcomings are anticipated, evaluation and implementation of additional measures will be completed.

The Borough originally prioritized the Warren Street basin retrofit project to assist in fulfilling the PRP requirements, since the basin project was originally planned to be completed in conjunction with the proposed repaving of Warren Street. The Borough was in communication with the property owner of the undeveloped lot which contains the basin and both parties were amenable to the project. The property was then sold, and the new property owner is currently in the process of reanalyzing the existing basin for development of the lot. The Borough will be reviewing the development plans and basin analysis and potentially working with the new property owner to determine the feasibility of the basin to still be retrofitted for the purpose of the Borough's PRP.

In an effort to achieve further sediment reduction, the Borough is also considering various options for a proposed BMP at the Borough Park. Originally, the area above the Borough's pool facility was being considered for the location of the BMP, but with the potential closing and abandonment of the pool facility, the project has been delayed until a final decision is made regarding the status of the pool. If the pool is abandoned, the Borough may decide to utilize the pool location for the BMP.

Any potential revisions to the PRP are temporarily delayed until the developer of the lot on Warren Street finalizes his plans for the development of the parcel and until a final decision is made by Borough Council regarding the future of the pool facility, both of which are expected to proceed/be resolved during 2023.

PRP/TMDL Plan Comments:

NEW BMPs FOR PRP/TMDL PLAN IMPLEMENTATION

Table 2. List all new structural BMPs installed and ongoing non-structural BMPs implemented during the reporting period that are being used toward achieving load reductions in the permittee's PRP and/or TMDL Plan (see instructions).

BMP No.	BMP Name	DA (ac)	% Imp.	BMP Extent	Units	Latitude	Longitude	Date Installed or Implemented	Planning Area?	Ch. 102?	Annual Sediment Load Reduction (lbs/yr)
						° ' "	° ' "		☐	☐	
						° ' "	° ' "		☐	☐	
						° ' "	° ' "		☐	☐	
						° ' "	° ' "		☐	☐	
						° ' "	° ' "		☐	☐	
						° ' "	° ' "		☐	☐	
						° ' "	° ' "		☐	☐	
						° ' "	° ' "		☐	☐	
						° ' "	° ' "		☐	☐	
						° ' "	° ' "		☐	☐	
						° ' "	° ' "		☐	☐	
						° ' "	° ' "		☐	☐	
						° ' "	° ' "		☐	☐	
						° ' "	° ' "		☐	☐	
						° ' "	° ' "		☐	☐	
						° ' "	° ' "		☐	☐	

BMP INVENTORY FOR PRP/TMDL PLAN IMPLEMENTATION

Table 3. List all existing structural BMPs that have been installed in prior reporting periods and are eligible to use toward achieving load reductions in the permittee's PRP and/or TMDL Plan (see instructions).

BMP No.	BMP Name	DA (ac)	% Imp.	BMP Extent	Units	Latitude	Longitude	Date Installed	Annual Sediment Load Reduction (lbs/yr)	Date of Latest Inspect-ion	Satis-factory?
001-C	Inlet Filter Bag	0.38		0.38	Acres	40°36'10"	75°24'13.6"	2019	* See Individual Sheets	06.28.2022	☒
006	Inlet Filter Bag	0.19		0.19	Acres	40°35'55.5"	75°24'09"	2019		03.28.2022	☒
011-A	Inlet Filter Bag	0.38		0.38	Acres	40°35'51.2"	75°24'08"	2019		03.28.2022	☒
011-B	Inlet Filter Bag	0.38		0.38	Acres	40°35'51.2"	75°24'08"	2019		03.28.2022	☒
016-A	Inlet Filter Bag	0.54		0.54	Acres	40°36'07.2"	75°23'55"	2019		04.26.2022	☒
016-B	Inlet Filter Bag	0.54		0.54	Acres	40°36'07.2"	75°23'55"	2019		04.26.2022	☒
017-A	Inlet Filter Bag	0.55		0.55	Acres	40°36'07.9"	75°23'59.7"	2019		04.26.2022	☒
017-B	Inlet Filter Bag	1.52		1.52	Acres	40°36'07.7"	75°23'59.5"	2019		03.04.2022	☒
017-C	Inlet Filter Bag	0.37		0.37	Acres	40°36'07"	75°23'56"	2019		03.04.2022	☒
019	Inlet Filter Bag	0.37		0.37	Acres	40°36'05.8"	75°23'52.1"	2019		05.26.2022	☒
020	Inlet Filter Bag	0.29		0.29	Acres	40°36'06"	75°23'51.9"	2019		04.26.2022	☒
021-A	Inlet Filter Bag					40°36'02.4"	75°23'55"	2019		04.26.2022	☒
021-B	Inlet Filter Bag					40°36'02.9"	75°23'54.6"	2019		04.26.2022	☒
021-C	Inlet Filter Bag					40°36'05.2"	75°23'52.4"	2019		02.11.2022	☒
021-D	Inlet Filter Bag					40°36'05.5"	75°23'52.0"	2019		02.11.2022	☒

BMP No.	BMP Name	DA (ac)	% Imp.	BMP Extent	Units	Latitude	Longitude	Date Installed	Annual Sediment Load Reduction (lbs/yr)	Date of Latest Inspect-ion	Satis-factory?
022-A	Inlet Filter Bag					40°36'04.6"	75°23'49.8"	2019		04.26.2022	☒
022-B	Inlet Filter Bag					40°36'05.4"	75°23'51.6"	2019		10.28.2021	☒
038	Inlet Filter Bag	0.08		0.08	Acres	40°36'06.4"	75°23'34.8"	2019		04.26.2022	☒
041	Inlet Filter Bag	0.41		0.41	Acres	40°36'40.9"	75°23'29"	2020		04.26.2022	☒
043	Inlet Filter Bag	0.30		0.30	Acres	40°36'17.7"	75°23'29.6"	2019		03.04.2022	☒
101	Inlet Filter Bag	3.55		3.55	Acres	40°36'25.3"	75°23'45.7"	2020		06.28.2022	☒
102	Inlet Filter Bag	1.09		1.09	Acres	40°36'25.7"	75°23'45.7"	2020		06.28.2022	☒
103	Inlet Filter Bag	1.49		1.49	Acres	40°36'26.5"	75°23'47.2"	2020		06.28.2022	☒
104	Inlet Filter Bag	3.97		3.97	Acres	40°36'26.2"	75°23'47.5"	2020		10.28.2021	☒
105	Inlet Filter Bag	0.57		0.57	Acres	40°35'55.6"	75°24'08.8"	2020		04.26.2022	☒
106-A	Inlet Filter Bag	0.63		0.63	Acres	40°35'53.2"	75°24'08.4"	2020		04.26.2022	☒
106-B	Inlet Filter Bag	0.63		0.63	Acres	40°35'53.2"	75°24'08.4"	2020		04.26.2022	☒
107-A	Inlet Filter Bag	1.05		1.05	Acres	40°35'53.2"	75°24'08.7"	2020		04.26.2022	☒
107-B	Inlet Filter Bag	1.05		1.05	Acres	40°35'53.2"	75°24'08.7"	2020		04.26.2022	☒
108-A	Inlet Filter Bag	1.56		1.56	Acres	40°35'51.2"	75°24'08.4"	2020		04.26.2022	☒
108-B	Inlet Filter Bag	1.56		1.56	Acres	40°35'51.2"	75°24'08.4"	2020		03.04.2022	☒
109	Inlet Filter Bag	0.097		0.097	Acres	40°35'56.3"	75°23'47"	2020		04.26.2022	☒
110	Inlet Filter Bag	2.73		2.73	Acres	40°35'56.6"	75°23'46.8"	2020		04.26.2022	☒

BMP No.	BMP Name	DA (ac)	% Imp.	BMP Extent	Units	Latitude	Longitude	Date Installed	Annual Sediment Load Reduction (lbs/yr)	Date of Latest Inspect-ion	Satis-factory?
111	**Inlet Filter Bag**	**4.16**		**4.16**	**Acres**	40°35'56.4"	75°23'44.7"	**2020**		**05.26.2022**	☒
112	**Inlet Filter Bag**	**0.86**		**0.86**	**Acres**	40°35'57.7"	75°23'45.4"	**2020**		**05.26.2022**	☒
113-A	**Inlet Filter Bag**	**20.86**		**20.86**	**Acres**	40°35'56.3"	75°23'39.2"	**2020**		**04.26.2022**	☒
113-B	**Inlet Filter Bag**	**7.82**		**7.82**	**Acres**	40°35'56.3"	75°23'38.5"	**2020**		**10.28.2021**	☒
114	**Inlet Filter Bag**	**1.00**		**1.00**	**Acres**	40°36'06.3"	75°23'34.9"	**2020**		**04.26.2022**	☒
115-A	**Inlet Filter Bag**	**1.18**		**1.18**	**Acres**	40°36'06.6"	75°23'33.5"	**2020**		**04.26.2022**	☒
115-B	**Inlet Filter Bag**	**4.72**		**4.72**	**Acres**	40°36'07"	75°23'33.4"	**2020**		**04.26.2022**	☒
116-A	**Inlet Filter Bag**	**0.56**		**0.56**	**Acres**	40°36'08"	75°23'30.7"	**2020**		**04.26.2022**	☒
116-B	**Inlet Filter Bag**	**1.06**		**1.06**	**Acres**	40°36'08.3"	75°23'30.6"	**2020**		**04.26.2022**	☒
								Total Removal for the Reporting Period	**7,487 lbs.**		

CERTIFICATION

For PAG-13 Permittees: I have read the latest PAG-13 General Permit issued by DEP and agree and certify that (1) the permittee continues to be eligible for coverage under the PAG-13 General Permit and (2) the permittee will continue to comply with the conditions of that permit, including any modifications thereto. I understand that if I do not agree to the terms and conditions of the PAG-13 General Permit, I will apply for an individual permit within 90 days of publication of the General Permit. I also acknowledge that any facility construction needed to comply with the General Permit requirements shall be designed, built, operated, and maintained in accordance with operative laws and regulations.

For All Permittees: I certify under penalty of law that this report was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Mr. Eric Gratz, Borough Manager	
Name of Responsible Official	Signature
610.867.0301	September 23, 2022
Telephone No.	Date

MCM #1

PUBLIC EDUCATION AND OUTREACH ON STORM WATER IMPACTS

PUBLIC EDUCATION & OUTREACH PLAN

THE BOROUGH OF FOUNTAIN HILL, LEHIGH COUNTY
August 2014, Last Updated September 2022

What is MS4?

MS4 is the acronym for Municipal Separate Storm Sewer Systems (MS4), which are stormwater (only) conveyance systems on municipal property that discharge as concentrated flow directly or indirectly into "waters of the United States." Federal regulations enacted in December 1999 and administered through the State required municipalities with Urbanized Areas, based on 2000 Census data (and updated every decade) for higher populations densities, to implement a stormwater management program under a 5-year State Permit which began on March 2003 and was extended several times through 2014 with a 5-year State Permit then issued for 2013 through 2018. A new 5-year State Permit was then issued to the Borough effective June 26, 2018 and expiring on March 15, 2023. As part of the most recent Permit, the approved Borough Pollutant Reduction Plan (PRP) shall be implemented.

The Federal regulations apply to Urbanized Areas and mandate that local government units (municipalities) adopt certain legal requirements through an ordinance, or other regulatory mechanism, to effectuate the local stormwater management program. The Federal regulations require municipalities with MS4 Urbanized Areas to have the following legal provisions enacted:

- Prohibition of non-stormwater discharges (with certain exceptions) into MS4s
- Requirement for erosion and sediment pollution controls on construction sites
- Requirement to address post-construction stormwater runoff from new development and redevelopment, including operations and maintenance of stormwater BMPs
- Sanctions to ensure compliance with the above provisions

What can be done by a municipality to meet the requirements of MS4 regulations?

It is the best approach of the Borough to assign the tasks mentioned herein to the Department or person(s) who address stormwater-related issues, including:

- Post information concerning MS4 regulations on the Borough's website and/or social media page.

- Obtain and/or develop newsletter articles to be sent out to residents with regular newsletter mailings.

- Hang posters provided by the Pennsylvania Department of Environmental Protection, Environmental Protection Agency, and other MS4-related materials in the municipal building and other public locations.

- Provide public presentations at the municipal building to educate interested residents about stormwater management. Presentations should be advertised on the Borough lobby digital display, in the Borough's newsletter, on social media, and/or the website, as well as through newspaper articles and fliers.

- Provide a presentation to Builders and Land Developers on stormwater management impacts, solutions, and regulatory requirements.

- Direct local schools to promote the utilization of the stormwater educational game "Stormwater Sentries" available on Facebook (or other on-line stormwater education tools) and provide grade appropriate educational materials on stormwater management to students in various grades.

- Locate central information centers in the Borough to post public information concerning stormwater-related issues, including apartment complexes and businesses.

- Distribute "*When it Rains, it Drains*" brochure through mailings to homes and businesses within the Borough.

- Enact Borough program(s) to identify and label all catch basins to warn against illegal dumping. A schedule should also be in place to replace/maintain labels as needed.

- Coordinate with adjacent municipalities to plan for the most effective use of money, staff, and resources to effectively educate citizens about stormwater and its effects.

- Continuously train and inform Borough employees on the Borough's MS4 Program and all MCMs.

Activities should be tracked for reporting to the Pennsylvania Department of Environmental Protection. Tracking will provide the Borough with the ability to report on the MS4 Programs' Measurable Goals and to assist with gauging permit compliance and program effectiveness. The following table provides a framework for tracking MS4 related activities for Public Education and Outreach:

Table 1 – Public Education and Outreach Activities Matrix – Borough of Fountain Hill				
Activity	**Supporting Documentation**	**Metric**	**Permit Year**	**Results**
1. Website	Print-out from website	Number of website hits	1	
			2	
			3	
			4	
			5	
2. Newsletters	Copies of newsletters with articles	Number Distributed	1	
			2	
			3	
			4	
			5	
3. Social Media	Print-out from Social Media page including various	Number of Followers	1	
	postings, messages, notifications, meeting attendees,		2	
	etc.		3	
			4	593
			5	
4. Digital Messages (lobby)	Photographs of postings, messages, notifications, etc.	Number of Messages	1	
			2	
			3	
			4	8
			5	
5. School Outreach	Copies of materials provided, i.e., A Fish's Wish,	Number of students to whom materials get provided by school	1	
	Stormwater Activity Book, etc.		2	
			3	
			4	
			5	
6. Information to Developers	Copies of materials mailed, mailing lists	Number Distributed	1	
	- Brochures		2	
	- List of Borough of Fountain Hill Ordinances		3	
	- Publication - *Don't Let Storm Water Run Off With Your Time and Money!*		4	
			5	
7. Information to New Residents	Copies of materials mailed, mailing lists	Number of Distributed	1	
	- Brochures		2	
	- List of Borough of Fountain Hill Ordinances		3	
	- Publication – *Residential Causes of Stormwater Pollution* and *Preventing Polluted Stormwater: A Guide for Residents*		4	
			5	

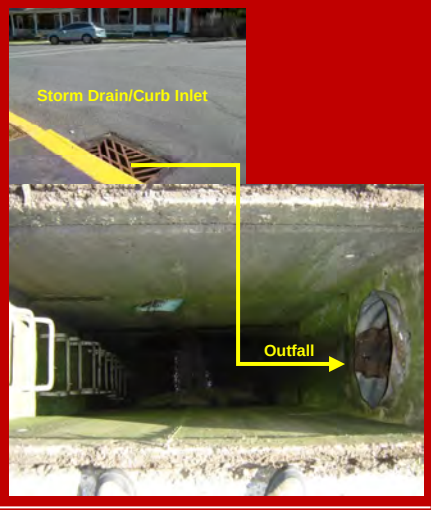
8. Information to Existing Residents	Copies of materials mailed, mailing lists	Number Distributed	1	
	- Brochures - List of Borough of Fountain Hill Ordinances - Publication – *Preventing Polluted Stormwater: A Guide for Residents*		2	
			3	
			4	
			5	
9. Information to Businesses	Copies of materials mailed, mailing lists	Number Distributed	1	
	- Brochures - List of Borough of Fountain Hill Ordinances Publication – *Good Housekeeping Practices for…AUTO MAINTENANCE, REPAIR, and FUELING OPERATIONS and Preventing Polluted Stormwater: A Guide for Businesses*		2	
			3	
			4	
			5	
10. Brochures (at municipal building)	Copies of brochures provided	Number of brochures taken from display	1	
			2	
			3	
			4	
			5	
11. Posters (at municipal building)	Copies of posters displayed	Number of meeting	1	
		attendees/lobby visitors	2	
		(estimated)	3	
			4	
			5	
12. Storm Drain Stenciling	Photographs of storm drains stenciled	Number of drains stenciled	1	
			2	
			3	
			4	
			5	
13. Presentations on Stormwater	Copies of Presentations	Number of presentation	1	
		attendees	2	
			3	
			4	
			5	

Target Audiences List – Borough of Fountain Hill

1. Developers/Builders
    a. Brochure – "*When It Rains, It Drains*"
    b. List of the Borough of Fountain Hill Ordinances
    c. Publication – "*Don't Let Storm Water Run Off With Your Time and Money!"*
    d. Website (with links)
    e. Presentations on Stormwater
2. Schools
    a. PADEP materials
    b. Stormwater game – *Stormwater Sentries*
    c. Activity packets (e.g., A Fish's Wish, Stormwater Activity Book, etc.)
3. New Residents
    a. Brochure – "*When It Rains, It Drains*"
    b. List of the Borough of Fountain Hill Ordinances
    c. Publication – *Residential Causes of Stormwater Pollution* and *Preventing Polluted Stormwater: A Guide for Residents*
    d. Website (with links)
4. Existing Residents
    a. Website (with links)
    b. Publication – *Residential Causes of Stormwater Pollution* and *Preventing Polluted Stormwater: A Guide for Residents*
    c. Presentations on Stormwater
    d. Newsletter Articles (if development is a newsletter is commenced)
5. Businesses
    a. Brochure – "*When It Rains, It Drains*"
    b. Publication – *Preventing Polluted Stormwater: A Guide for Businesses* and *Good Housekeeping Practices for…AUTO MAINTENANCE, REPAIR, and FUELING OPERATIONS* Website (with links)
6. Municipal Employees
    a. Brochure – "When It Rains, It Drains"
    b. Pollutant Reduction Plan (PRP)
    c. Copies of MS4 Annual Reports, including Township's Stormwater Management Program documents
    d. Publications – *Preventing Polluted Stormwater: A Guide for Businesses, Preventing Polluted Stormwater: A Guide for Residents, Don't Let Storm Water Run Off With Your Time and Money!,* and *Good Housekeeping Practices for…AUTO MAINTENANCE, REPAIR, and FUELING OPERATIONS*
    e. Website (with links)

What is MS4?

MS4 is the acronym for “Municipal Separate Storm Sewer Systems,” which are stormwater (only) conveyance systems on municipal property that discharge as concentrated flow directly or indirectly into “waters of the United States.”



The Township’s MS4 system of conveyances includes roads with drainage systems, municipal streets, catch basins, curbs, gutters, man-made channels, and storm drains.



941 Long Street
Fountain Hill, PA 18015

Phone: 610.867.0301
Fax: 610.867.7153
8:30 am – 4:30 pm Monday - Friday

Borough of Fountain Hill

Preventing Polluted Stormwater:



A Guide for Residents

Borough of Fountain Hill

MS4 Program

1. Never dump anything down storm drains or in ditches.



Many people wrongly think storm drains are part of a sanitary sewer system that flow to a wastewater treatment plans. Actually, storm drains are a direct link to local streams, rivers, lakes, and wetlands. If you need to dispose of something and not sure where to put it, contact the Township Office to ask about safe ways to dispose of the materials.

2. Pick up after your pet.



Pet waste that is left on streets, sidewalks, yards, or trails near streams can easily wash into area creeks and streams. It is estimated one dog can produce approximately 180 pounds of poop per year. Not all this ends up in our water, but even a fraction creates quite a pollution load for our waters. Pet waste can add harmful bacteria to our water than can make the water unsafe to swim or play in. Pet waste also has nutrients that cause algae to grow in waterways which can be harmful to the animals that live there. **Always pick up after your pets and dispose of their waste in a trash can or flush it down the toilet.**

3. Check your car for leaking fluids and recycle your motor oil.



Improper disposal of used oil, which includes oil leaking from cars, contributes significantly to stormwater pollution. The EPA estimates that American households improperly dump about 193 million gallons of used oil every year, or roughly the equivalent of 17 Exxon Valdez oil spills. If you have an oil leak, do your part and have it repaired. In 2019, there were over 4 million cars registered in Pennsylvania. If only a small portion of these had leaks, that is still a significant amount of oil entering our streams. If you change your own automotive fluids, recycle your used motor oil. Many places that sell motor oil also collect it for free. An easy way to clean up an accidental spill is to pour sand or clean kitty litter over the spill, wait a few minutes and then sweep up the solid materials.

4. Don't litter! Pick up trash you see on the ground (even if it is not yours) and participate in a stream or watershed clean-up!



No one likes to see trash floating in the water and that is where it will end up if litter is left on the ground. Litter can wash into area streams through storm drains where water from our streets goes untreated. Litter can also be dangerous to wildlife that might mistake it for food or get tangled in the trash. Participate in stream, highway, or watershed clean-ups. These are often organized by area watershed associations and coalitions or something you can do on your own. Take a trash bag and some gloves and go for a nature hike through area streams. Pick up any trash you find along the way and put in the in proper disposal container!

Ten Things You Can do to Prevent Stormwater Pollution

5. Use fertilizers sparingly and sweep driveways and sidewalks after application.



Use fertilizers according to your lawn, plant needs, and labeled instructions. Sweep driveways and sidewalks after application. Fertilizers that are applied in excess or scattered onto driveways or sidewalks have the potential to be carried by rain runoff into streams causing high levels of nutrients in our waters. Too many nutrients can lead to unnatural algae growth creating green "slimy" or "hairy" water that depletes oxygen for aquatic ecosystems. Soil test before applying fertilizers so you are adding enough nutrients to meet plant needs, but not more than needed.

6. Compost yard waste and sweep grass clippings out of street gutters after mowing.

Most people don't think of grass clippings and leaves as possible pollutants, but they can when they end up in streams through the storm drain system. These materials can contribute nutrients such as nitrogen and phosphorus, which cause unwanted and uncontrolled growth of algae and aquatic weeds in the waterways. Too much algae is harmful to streams and lakes. It blocks sunlight and prevents other plans from growing. When it dies and decays, it also takes much needed oxygen away from fish. Mulch leaves by running the lawnmower over them and leaving the shredded leaves and grass in the lawn. This also adds needed nutrients back to your lawn, minimizing the need for added fertilizers. Consider making a compost bin or pile or utilizing the City of Bethlehem's Compost Facility. Be sure to sweep up any leaves and grass from driveways and sidewalks so they don't end up down the storm drain. Yard was such as leaves, small brush, hedge and shrub trimmings, garden and plant residue can be placed curbside for Township yard waste pick up. As a last resort, grass clippings can be placed out for regular trash collection, but this practice is not recommended by the Township or the PA Department of Environmental Protection.



7. Direct downspouts away from paved surfaces and slow water down.

When rain falls on a roof, its momentum increases and gives it more power to wash pollutants into storm drains. Storm drains carry rainwater untreated to area streams. By diverting your gutter downspouts to grassy areas, runoff can be slowed and allowed to soak into the soil. Increased stormwater flows also create larger and faster flushing of creeks when it rains. This accelerates stream bank erosion. Erosion leads to murky water that can have impacts on the stream's wildlife and increase algae growth from nutrients in the soils. Consider building a rain barrel or installing a rain garden to capture the rain as it flows off roofs.





8. Wash your car at a commercial car wash that is connected to a treatment plant or water recycling system instead of washing your car on a driveway or street.



When you wash your car on the driveway or street, the dirt, grease, and soap can wash into storm drains directly to streams. Concentrations of detergents in streams can kill fish and their eggs, as well as disrupt their ability to reproduce. Detergents can also destroy the natural protections fish have against bacteria and parasites and can severely damage fish gills. The phosphates from soap can also cause excess algae to grow in our waterways. Excessive algae growth makes water cloudy, green , unattractive, smelly, and unpleasant for swimming, boating, fishing, or drinking. Take your car to the car wash where the rinse water goes to a wastewater treatment plant instead of storm drains. If you do wash your car at home, do it on grassy or gravel areas that can absorb the water without it washing into the street.

9. Use integrated pest management practices for controlling pests around your home.



Use pesticides cautiously. If pesticides are necessary, use only recommended amounts. Excess pesticides applied to lawns and around surfaces like driveways and sidewalks wash off and pollute streams. These include bug killers, weed killers, and fungus treatments. The most effective and important practice to minimize lawn and garden pests is to observe what is going on in the yard. Many serious disease or insect problems can be stopped or slowed down early by observation and timely intervention. Better yet, consider natural or organic methods to treat pests or weeds.

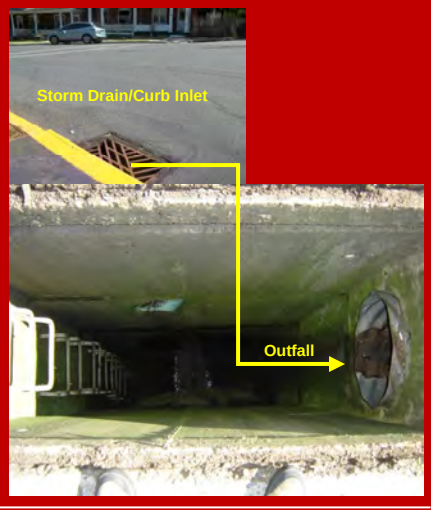
10. Vegetate bare spots in your yard and terrace slopes to minimize erosion.

Cover bare spots in your yard with mulch or vegetation. Leaving bare soils in your landscape can cause exposed soil to wash away during a rain. On slopes, rain water will move quickly taking with it any soil that it can along the way. These soils can fill water channels and make the water murky. This makes it difficult for aquatic life to find food or breathe. If you have a hard time getting grasses to grow, you might consider planting ground covers. Some options include creeping phlox, virginia creeper, moss, or mulch. Check with local nurseries about what native ground covers work well for your specific growing conditions. If your yard is sloped, consider terracing the land into steps to help slow down the water as it moves across your property.



What is MS4?

MS4 is the acronym for “Municipal Separate Storm Sewer Systems,” which are stormwater (only) conveyance systems on municipal property that discharge as concentrated flow directly or indirectly into “waters of the United States.”



The Township’s MS4 system of conveyances includes roads with drainage systems, municipal streets, catch basins, curbs, gutters, man-made channels, and storm drains.



941 Long Street
Fountain Hill, PA 18015

Phone: 610.867.0301
Fax: 610.867.7153
8:30 am – 4:30 pm Monday - Friday

Borough of Fountain Hill

Preventing Polluted Stormwater:



A Guide for Businesses

Borough of Fountain Hill

MS4 Program

Know the Important Difference Between Sewer and Storm Drains



Storm drains flow directly into streams without any treatment. Because of this direct connection, water and other wastes that flow into a storm drain an easily cause pollution. It is the responsibility of your business to ensure that only rainwater enters the storm drains near your operation.

- Do not pour anything into storm drains.
- Keep storm sewer drains clear of leaves, grass clippings, sticks, and litter.
- Repair any leaks and drips from your vehicle.
- Clean up spills and don't wash them into a drain.
- Use local county hazardous waste collection events to dispose of paints, solvents, cleaners, etc.
- Minimize the use of herbicides and pesticides.

General Pollution Prevention

The best practices listed below are critical to protecting our water quality:

- Label/stencil each storm drain inlet on your property to remind workers and customers that dumping is prohibited.
- Routinely inspect and clean outdoor areas including but not limited to storm drain inlets (grates and sumps); loading docks and shipping/receiving areas; work areas; chemical storage areas; waste storage and recycling areas; and treatment devices for proper functioning.
- Keep surfaces clean by sweeping, vacuuming, or mopping. NEVER wash down surfaces to gutter, storm drain inlet, or waterway.
- For pressure washing of pavement or other surfaces, hire a cleaning contractor trained to use pollution prevention practices. Make sure all wash water is collected for proper disposal.
- Pick up litter and trash daily.
- Sweep parking areas and gutters at least monthly and before it rains.
- Prevent spills when transferring liquids by using drip pans, secondary containment, and absorbents.
- Clean up spills immediately with rags, absorbents, or wet/dry vacuum. Do not allow fluids to accumulate or run across surfaces. Never wash spills down or allow spills to flow into a storm or sanitary sewer drain inlet. Clean up absorbents immediately following their use and dispose of them properly.
- Mobile washing of some types of equipment, such as roof exhaust equipment or shopping carts, is acceptable if all wash water is contained, vacuumed up, and directed to the sanitary sewer.
- Wash equipment indoors, at a utility or mop sink, or location where wash water drains to the sanitary sewer.

Five important things to remember:

1. **Keep your business neat and clean – it saves time and money and prevents pollution.**
2. **Protect your storm drain inlets from pollution of any kind. Remember, only rain down the drain.**
3. **Be prepared! Keep spill cleanup materials easily accessible.**
4. **Use dry methods to clean up spills whenever possible. Never wash spills down the storm drain.**
5. **Train staff regularly on these practices.**

How Your Business Can Prevent Stormwater Pollution

Material Storage

- Store materials indoors if possible.
- If stored outdoors, store materials on a paved surface, in a fully enclosed container, and covered to prevent contact with rainfall, snowfall, and runoff.
- Keep containers out of pooled or standing water. Regularly inspect containers for cracks, corrosion, or leaky seams.
- Use secondary containment when storing fluids outside. Keep container lids, caps, and openings closed when not in use.
- Apply caution and control when transferring liquids to minimize spill potential.
- Have clean up materials easily accessible. Regularly train employees on spill clean up procedures.
- Store all items as far as possible from storm drain inlets.
- Use drip pans under outdoor work or storage areas where there is the potential for spills and leaks.

If you MUST store materials outdoors:

1. **Protect materials from rain, snow, and runoff.**
2. **Place primary containers of liquids within secondary containment.**
3. **Do NOT place near storm drain inlets.**
4. **Keep spill clean up materials in easily accessible areas.**
5. **Check with the Township for compliance with the fire and building codes.**









EDUCATION AND TRAINING

- Train new employees upon hiring to use these practices and have annual refresher trainings.
- Post signs to remind employees to properly store materials and clean spills.



Outdoor Waste Storage and Recycling



- Inspect the garbage and recycling area daily for dropped wastes, overfilled or leaking dumpsters and trash compactors, and dumpsters with open lids.
- Pick up dropped wastes and sweep the dumpster area.
- Make sure dumpsters are not overfilled and lids are kept closed.
- Prevent and clean up any trash compactor leachate drippings.
- Replace or repair leaking dumpster.
- Use a licensed company to haul and recycle or dispose of wastes.
- Rinse waste containers in areas that drain to sanitary sewer.
- When available, keep dumpsters inside the enclosure at all times when not being service by the garbage company.
- Provide recycle and green waste dumpster whenever possible.

Litter

Litter and trash are bad for business and harm the health of our streams.

- Provide enough trash and cigarette receptacles for customers and employees. All outdoor receptacles must be covered.
- Pick up litter daily. Maintain the sidewalk and parking lots in front of your business so they are free of litter and dirt. Don't wash into the street or storm drain.
- Encourage your customers to bring their own reusable bags instead of using polystyrene containers and plastic bags. These types of disposables are increasingly being banned because of the pollution they create.

Landscaping and Safer Alternatives to Pesticides

- Know whether your landscaping is specifically designed to minimize and treat stormwater runoff, and, if it is, make sure it is maintained as designed.
- Use less toxic alternatives to pesticides.
- Do not overwater either by hand or mechanically. If using sprinklers, be sure they are maintained to avoid pavement watering.
- Clean up fallen leaves and remove prunings for composting or disposal with green wastes. Do not dispose of these materials in the street, storm drain, or stream.

Don't Let Storm Water Run Off With Your Time and Money!

What the Construction Industry Should Know About Storm Water In Our Community

What is Storm Water?

Storm water is water from precipitation that flows across the ground and pavement when it rains or when snow and ice melt. The water seeps into the ground or drains into what are commonly called storm sewers. These are the drains you see at street corners or at low points on the sides of streets. Collectively, the draining water is called **storm water runoff**.

The construction industry plays an important role in improving our community's quality of life by not only providing new development, but also protecting our streams and rivers through smart business practices that prevent pollution from leaving construction sites.

Storm water runoff leaving construction sites can carry pollutants such as dirt, construction debris, oil, and paint off-site and into storm drains. In our community, storm drains carry storm water runoff directly to local creeks, streams, and rivers with no treatment. Developers, contractors, and homebuilders can help to prevent storm water pollution by taking the following steps:

1. Comply with storm water permit requirements.
2. Practice erosion control and pollution prevention practices to keep construction sites "clean."
3. Conduct advanced planning and training to ensure proper implementation on-site.

The remainder of this fact sheet addresses these three steps.

Storm Water Permit Requirements for Construction Activity

Planning and permitting requirements exist for construction activities. These requirements are intended to minimize storm water pollutants leaving construction sites.



- Pennsylvania's Erosion and Sediment Pollution Control Program (25 Pa. Code, Chapter 102) requires Erosion and Sediment Control Plans for all earth disturbing activities.
- The National Pollutant Discharge Elimination System (NPDES) Permit Program (25 Pa. Code, Chapter 92) requires that construction activities disturbing greater than one acre submit a Notice of Intent for coverage under a general NPDES permit.

Knowing your requirements before starting a project and following them during construction can save you time and money, and demonstrate that you are a partner in improving our community's quality of life. For more information about these programs, contact your local county conservation district office or the Department of Environmental Protection.

Erosion Control Practices:

- Perimeter controls (e.g. silt fence)
- Sediment traps
- Immediate revegetation
- Phased, minimized grading
- Construction entrance
- Protection of streams and drainage ways
- Inlet protection



An Ounce of Prevention

Rain that falls onto construction sites is likely to carry away soil particles and other toxic chemicals present on construction sites (oil, grease, hazardous wastes, fuel). Storm water, if not properly managed, carries these pollutants to streams, rivers, and lakes. Erosion and sediment control practices can serve as a first line of defense,

Pollution Prevention Practices:

- Designated fueling and vehicle maintenance area away from streams.
- Remove trash and litter.
- Clean up leaks immediately.
- Never wash down dirty pavement.
- Place dumpsters under cover.
- Dispose of all wastes properly.

minimizing clean up and maintenance costs, and the impacts to water resources caused by soil erosion during active construction. Erosion controls can reduce the volume of soil going into a sediment control device, such as a sediment trap, therefore, "clean out" frequencies are lower and maintenance costs are less. When possible, divert water around the construction site using berms or drainage ditches.

In addition, use pollution prevention and "good housekeeping measures" to reduce the pollution leaving construction sites as well. This can be as simple as minimizing the pollution source's contact with rainwater by covering it, maintaining a "clean site" by reducing trash and waste, and keeping vehicles well maintained.

The Best Laid Plans

Plans such as erosion and sediment control plans and storm water pollution prevention plans are important tools for outlining the erosion control and pollution prevention practices that you will use to manage storm water runoff prior to breaking ground. Developing good plans allows for proper budgeting and planning for the life of the project. Proper installation and maintenance of erosion and storm water controls is essential to a plan that works. Training for on-site staff helps to ensure the proper installation and maintenance of erosion controls and pollution prevention practices. Inspect controls and management techniques regularly to ensure they are working, especially after storm events. If polluted storm water is leaving the site, you may need to repair or add additional storm water controls.



The Bigger Storm Water Picture

Your community is preventing storm water pollution through a comprehensive storm water management program. This program addresses storm water pollution from construction, but it also deals with new development, illegal dumping to the storm sewer system, and municipal operations. It will also continue to educate the community and get everyone involved in making sure the only thing that storm water contributes to our streams is . . . water! Contact your community or the Pennsylvania Department of Environmental Protection for more information about storm water management.

For more information:

Pennsylvania Association of Conservation District's:
http://www.pacd.org/default.html

Pennsylvania Handbook of Best Management Practices for Developing Areas:
http://www.pacd.org/products/bmp/bmp_handbook.html

Storm Water Manager's Resource Center:
http://www.stormwatercenter.net

Pennsylvania Department of Environmental Protection:
http://www.dep.state.pa.us

LOBBY DIGITAL MESSAGE BOARD INFORMATION

Our Water - Make it Personal!

Every parcel of land in the Chesapeake watershed impacts the quality of the Chesapeake Bay.

http://chesapeakestormwater.net/wp-content/uploads/downloads/2013/07/CSN-Homeowner-Guide_062713.pdf



When you fertilize the lawn, ***Remember*** you're not *just* fertilizing the lawn.



It's hard to imagine that a green, flourishing lawn could pose a threat to the environment, but the fertilizers you apply to your lawn are potential pollutants! If applied improperly or in excess, fertilizer can be washed off your property and end up in lakes and streams. This causes algae to grow, which uses up oxygen that fish need to survive. So if you fertilize, please follow directions and use sparingly.

The Massachusetts Department of Environmental Protection, One Winter Street, Boston, MA 02108

Clean water is important to all of us.

It's up to all of us to make it happen. In recent years, sources of water pollution like industrial wastes from factories have been greatly reduced. Now, more than 60 percent of water pollution comes from things like cars leaking oil, fertilizers from farms and gardens, and failing septic tanks. All these sources add up to a big pollution problem. But each of us can do small things to help clean up our water too—and that adds up to a pollution solution!

Why do we need clean water?

Having clean water is of primary importance for our health and economy. Clean water provides recreation, commercial opportunities, fish habitat, drinking water, and adds beauty to our landscape. All of us benefit from clean water—and all of us have a role in getting and keeping our lakes, rivers, streams, marine, and ground waters clean.

What's the problem with fertilizers?

Fertilizer is a "growing" problem for lakes, rivers, and streams, especially if it's not used carefully. If you use too much fertilizer or apply it at the wrong time, it can easily wash off your lawn or garden into storm drains and then flow into lakes or streams. Just like in your garden, fertilizer in lakes and streams makes plants grow. In water bodies, extra fertilizer can mean extra algae and aquatic plant growth. Too much algae causes water quality problems and makes boating, fishing, and swimming unpleasant. As algae decay, it uses up oxygen in the water that fish and other wildlife need.

Clean Water Tips:

How can you fertilize and help keep our waters clean?

Use fertilizer sparingly. Many plants don't need as much fertilizer or need it as often as you might think.

Don't fertilize before a rain storm.

Consider using organic fertilizers. They release nutrients more slowly.

Have your soil tested before applying fertilizers to your lawn and gardens. A standard soil test costs $8.00. You may not need to add any fertilizer. (Call the UMass Extension Soil Testing Lab at 413/545-2311 or download a soil test order form at www.umass.edu/plsoils/soiltest.)

To find out more about the impacts of nonpoint source pollution and what you can do to prevent it, call the numbers listed below.

MDC
617/727-5114

617/626-1540

EPA New England
617/918-1111

617/292-5500

CZM
617/626-1250

MDFA
617/626-1700

617/626-1395

Communities Connected by Water
Massachusetts Watershed Initiative
617/626-1000

This information on nonpoint source pollution is brought to you by the Department of Environmental Protection, the Executive Office of Environmental Affairs' Massachusetts Watershed Initiative, Coastal Zone Management, the Department of Environmental Management, the Department of Fisheries, Wildlife, and Law Enforcement, the Department of Food and Agriculture, and the Metropolitan District Commission working to reduce nonpoint source pollution through public education. This project was funded by the U.S. Environmental Protection Agency with a federal 104(b)(3) grant.


Stormwater Runoff


Ontario
NY
OH
PA
NJ
MD
WV
DC
DE
VA
NC
Atlantic
Ocean

Good Housekeeping Practices for... AUTO MAINTENANCE, REPAIR, and FUELING OPERATIONS

Control Stormwater Runoff Pollution... Protect the Delaware Estuary and its Streams and Rivers

Be a **Clean Water Partner** by preventing stormwater runoff pollution from your site. Controlling stormwater pollution can be simple and inexpensive. Preventing stormwater pollution from occurring is certainly less costly than cleaning up water pollution after the fact. Preventive measures include common sense good housekeeping practices for the outdoors like sweeping regularly to remove silt, sand, and litter from your parking lot, covering dumpsters, and controlling salvage, scrap and wastes stored outside. Clean up or treatment to remove pollutants already in stormwater runoff or stream water are more costly, and generally less effective.



A message from participating business owners...

"Gas stations are a part of most American's lives and we are proud to do our part to keep our site as clean as possible while providing high quality and efficient service for our customers."
— Brian and Karl Bishara, Roxborough Getty

"Using best management practices to prevent stormwater pollution is a routine part of our business; it makes good business sense and helps keep local streams and the Delaware River clean."
— Tracy Beers, Philadelphia Midas

CLEAN WATER PARTNERS

...ONLY RAIN... DOWN THE STORM DRAIN

Good Housekeeping Best Management Practices (BMPs) for Auto Maintenance, Repair, and Fueling Operations



Funded by:

- Delaware Estuary Program
- Delaware River Port Authority of Pennsylvania and New Jersey
- The Laffey-McHugh Foundation
- National Oceanic and Atmospheric Administration
- Partnership for the Delaware Estuary
- Pennsylvania Coastal Zone Management Program
- Pennsylvania Department of Environmental Protection
- Philadelphia Water Department
- U.S. Environmental Protection Agency
- The William Penn Foundation

Employ these Good Housekeeping BMPs to help prevent stormwater runoff pollution in local streams, nearby rivers and the Delaware Estuary.

- ***Use Drip Pans and Trays*** under vehicles when there is a chance of fluids leaking and whenever liquids are transferred.
- ***Clean up small spills immediately*** and ensure employees know where spill cleanup supplies are stored and how to seal storm drains to contain spills.
- ***Sweep the shop floor rather than hose it down.*** Do not sweep or blow wastes into storm drains, streets and streams; pick up swept wastes and dispose of them properly in a trash can. When cleaning bays, shop floor, equipment, and vehicles, limit wastewater production by minimizing your use of water and liquid cleaners; instead, spot clean using absorbents, squeegees, and rags. Manage wastewater generated from washing activities in accordance with wastewater disposal codes (dispose in designated locations) and prevent wastewater from flowing out-of-doors into storm drains, streets and streams.
- ***Properly Dispose of All Wastes.*** **Non-hazardous** and non-liquid solid wastes should be containerized in secured bags prior to disposal in dumpsters. Dumpster lids should fit securely to prevent dispersal of litter by animals or wind. Require trash haulers to pick up litter that disperses during their transfer. Regularly inspect waste storage areas for litter as well as container condition. **Hazardous and other regulated wastes** should be picked up by licensed hazardous waste hauling/recycling contractors for disposal or recycling (including scrap parts, tires, oil, anti-freeze, solvents and batteries).
- ***Sweep the sidewalk and parking lot*** outside your front and back doors to control litter and debris, cigarette butts, and packaging waste from customers and deliveries. Properly dispose of these wastes in a trash can or dumpster.
- ***Conveniently locate trash cans and cigarette receptacles*** for your customers' use to encourage proper disposal of wastes. Trash cans should be covered with securely fitting lids.
- ***Routinely Inspect Containment and Control Structures (including on-site stormwater facilities) and Schedule Cleaning and Maintenance as Needed.*** Stormwater facilities (such as storm drains, oil-water separators, and stormwater retention basins) should be inspected regularly to ensure they are functioning properly, which means they should allow stormwater runoff to enter and discharge, but not release, oil, grease, dirt, debris or other pollutants into storm drains, streets and streams.
- ***Keep Material Safety Data Sheets (MSDSs) on site at all times.*** Operations that clean, repair and maintain vehicles typically use regulated products and chemicals, including hazardous and toxic materials. Know which products used on site are hazardous and ensure the MSDS for each regulated product is accessible to employees. MSDSs provide useful information about product contents, hazards, and cleanup guidance.
- ***Eliminate Illicit Drain Connections.*** Plumbing from indoor sink drains should not discharge directly into the storm drainage system, instead, indoor drains should be plumbed according to local sanitary code. Indoor drains should discharge to a wastewater treatment facility or sewage system. Illicit connections have historically been a problem in older buildings.
- ***Maintain Landscaping to Prevent Soil Erosion.*** Use native shrubs and plants to beautify your site, control areas where pedestrian traffic has damaged plants, and consider alternative materials, such as rock or mulch, in areas of heavy use. Watch slopes for soil erosion.
- ***Recycle motor oil and other products when possible.***

Printed on Recycled Paper

WHEN YOUR PET GOES ON

THE LAWN, REMEMBER IT DOESN'T

JUST GO ON THE LAWN.

When our pets leave those little surprises, rain washes all that waste and bacteria into our storm drains. It then pollutes our waterways. What to do? Simple. Pick up after your pet and flush the waste down the toilet. Then that little surprise gets treated like it should.



Special thanks to the City of Tacoma's Environmental Services for permission to adapt and modify their original poster.

OUR WATER
Take it personally!

WHEN YOU'RE WASHING YOUR CAR IN THE DRIVEWAY, REMEMBER YOU'RE NOT JUST WASHING YOUR CAR IN THE DRIVEWAY.

All the soap and oily grit goes into the storm drain where it flows directly into our lakes, streams and creeks. This pollutes our waterways. Instead, wash your car on grass or gravel where that stuff is filtered out. Or, you can go to a car wash that recycles its wash water.



Special thanks to the City of Tacoma's Environmental Services for permission to adapt and modify their original poster.

OUR WATER
Take it personally!

WHEN YOU'RE FERTILIZING THE LAWN,
REMEMBER YOU'RE NOT
JUST FERTILIZING THE LAWN.

You use chemical fertilizer on your lawn. Sprinklers run too long, or it rains. The sprinkler runoff and rainfall wash excess fertilizer into the storm drains where it flows directly into our lakes, streams and creeks. This causes algae to grow, which uses up oxygen that fish need to survive. Instead, don't apply fertilizer before it rains. Check your sprinkler settings and always follow the label instructions.



Special thanks to the City of Tacoma's Environmental Services for permission to adapt and modify their original poster.

OUR WATER
Take it personally!

It's a thrill to live on the hill!

BOROUGH OF FOUNTAIN HILL

941 Long St, Fountain Hill, PA 18015 | 610-867-0301

CALENDAR

Stormwater Authority

- Stormwater Authority Forms
- MS4 Annual Status Reports
- Financials
- Authority Board
- Stormwater Authority Meeting Minutes & Agendas
- Storm Water Management FAQ
- MS 4 Storm Water Management

Fountain Hill Borough

941 Long St
Fountain Hill, PA 18015
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Fountain Hill Stormwater Authority
Stormwater Management Program
Credit Policies and Procedures Manual

Introduction.

The Fountain Hill Stormwater Authority has enacted Resolution No. 19-2 (the "Resolution") which establishes an annual Stormwater Utility Fee (the "fee") to provide a dedicated funding source to support the Authority's Stormwater Management Program for the operation, maintenance, repair, and replacement of the Authority's Stormwater Management System. The charging of the fee is also necessary to enable the Authority to comply with its regulatory permit requirements, including the activities necessary to carry out the Borough's Municipal Separate Storm Sewer System (MS4) permit and the stormwater-related provisions of the Subdivision and Land Development Ordinance, the Floodplain Ordinance, and the Stormwater Management Ordinance.

Each developed Property within the Borough is subject to the fee requirements, with the total annual fee amount being directly proportional to the total Impervious Area of the Property less approved credit for applicable stormwater Best Management Practices ("BMPs") approved by the Authority in accordance with this manual.

Objective.

The Authority has developed this manual to provide guidance for Property Owners on how to potentially obtain a reduction ("credit") to their annual Stormwater Utility Fee by installing specific stormwater BMPs on their Property to offset the associated implementation and maintenance costs. The Authority encourages this credit option as a way to incentivize a Property Owner to implement stormwater BMPs on their Property that will mitigate the stormwater runoff volume, peak discharge, or associated pollution leaving their Property. By implementing such BMPs, Property Owners are helping to reduce the demand and associated operational costs on the Authority's existing Stormwater Management System as well as assist the Borough in obtaining and maintaining regulatory permit compliance.

Definitions.

As used hereinafter, the following words and terms shall have the following meaning:

"Authority" (or "Stormwater Municipal Authority" – Fountain Hill Stormwater Authority, a municipal authority with offices at Borough Hall, 941 Long Street, Fountain Hill, Pennsylvania 18015.

"Best Management Practices" ("BMPs") – *See*, definition of Stormwater Best Management Practices.

"Board of Appeals" - The Fountain Hill Stormwater Authority Board of Appeals created and acting in accordance with the terms hereof.

"Borough" – Borough of Fountain Hill, Lehigh County, Pennsylvania.

"Design Manual" - The 2006 Pennsylvania Stormwater Best Management Practices Manual, as revised from time to time, which serves as the official guide for Stormwater Management principles, methods, and practices in Pennsylvania.

"Developed" – Property where man-made changes have been made which add impervious surfaces to the property, changes may include, but are not limited to, buildings or other structures, mining, dredging, filling, grading, paving, excavation or drilling operations, or the storage of equipment or materials.

"Development" - A project that consists of subdividing land or adding buildings and other improvements to individual parcels of land.

"Drainage Area" - That land area contributing runoff to a single point, measured in a horizontal plane.

"Green Infrastructure" – Small-scale Stormwater Management Practices, nonstructural techniques, and better site planning to mimic natural hydrologic runoff characteristics and minimize the impact of development on water resources. Methods to design Green Infrastructure practices are specified in the 2006 Pennsylvania Stormwater Best Management Practices Manual (*See*, definition for Design Manual).

"Impervious Area" – Any surface that prevents or limits the Infiltration of water into the ground. Any structure, building, parking area, driveway, road, street, sidewalk, patio, deck, and any area of concrete, asphalt, pavement, compacted gravel, packed stone, stone, brick, tile, swimming pool, or artificial turf, and highly compacted soil shall be considered "Impervious Area," if Infiltration is limited or prevented. "Impervious Area" also includes any area used by or for motor vehicles or heavy commercial equipment, regardless of surface type or material, including any road, road shoulder, driveway, or parking area, if Infiltration is limited or prevented.

"Infiltration" – The passage or movement of water into the soil surface, at a rate sufficient to mitigate the Stormwater Runoff volume produced by up to a one-inch storm event.

"NPDES" – National Pollutant Discharge Elimination System, the Federal government's system for issuance of permits under the Clean Water Act, which is delegated to PADEP in Pennsylvania.

"PADEP" – Pennsylvania Department of Environmental Protection.

"Property" – Each and every parcel of real estate located within the Borough.

"Property Manager" – A person, company or other entity hired by a Property Owner to manage a Property.

"Property Owner" – The owner of record for a Property within the Borough, as registered in the Borough or County database.

"Stormwater Best Management Practices"– Activities, facilities, designs, measures, or procedures used to manage stormwater quantity and quality impacts. Examples include infiltration devices, filtering devices, stormwater ponds, stormwater constructed wetlands, hydrodynamic structures, or other measures specifically designed and constructed to control Stormwater Runoff, reduce accelerated stream channel erosion, and reduce pollution of surface waters.

"Stormwater" – *See*, definition of Stormwater Runoff.

"Stormwater Runoff" – Drainage from the surface of land resulting from precipitation or snow/ice melt.

"Stormwater Management Best Management Practice" – *See*, definition of Stormwater Best Management Practices.

"Stormwater Management Program" – The activities of the Authority necessary to operate, maintain, enhance, and expand the Stormwater Management System and the activities necessary to carry out the Borough's Municipal Separate Storm Sewer System (MS4) permit and the stormwater-related provisions of the Subdivision and Land Development Ordinance, the Floodplain Ordinance, and the Stormwater Management Ordinance.

"Stormwater Management System" – The system of stormwater runoff collection, conveyance, and treatment, including storm sewers, pipes, conduits, mains, inlets, culverts, catch basins, gutters, ditches, swales, channels, stormwater ponds (detention, retention, and infiltration), streets, curbs, drains, and all devices, appliances, and stormwater management practices and facilities used for collecting, conducting, pumping, conveying, detaining, retaining, reusing, infiltrating, reducing, managing, and treating stormwater.

"Stormwater Utility Fee" – A fee imposed by the Authority to cover the cost of constructing, operating, and maintaining stormwater management facilities and to fund expenses related to the Borough's compliance with PADEP NPDES permit requirements under applicable state law based on the impact of stormwater runoff from impervious areas of Developed land in the Borough.

"Undeveloped Land" – Any parcel of land that has not been altered from its natural state and which contains no impervious surfaces, or, if previously Developed, land that has been allowed to return to its natural state with no impervious surfaces or soil compaction which prevents or impedes stormwater infiltration.

Credits Available to Property Owners.

Stormwater Utility Fee credits are available to all properties that implement qualifying BMPs which eliminate Stormwater Runoff from Developed portions of their Property for all storms up to and including a one-inch storm, by providing Infiltration into soils (where soils are appropriate for Infiltration practices) or delayed discharge of clean water to receiving waters after the storm event has ended and receiving waters have returned to baseflow conditions.

Credits will be considered on a case-by-case basis for qualifying BMPs, as listed below in Table 1 and/or as listed in the most current version of the Pennsylvania Stormwater Best Management Practices Manual, subject to review and approval by the Authority.

Credit Approval.

A Stormwater Utility Fee credit to a Property Owner may be issued, as specified in this manual, only if the Property contains a qualifying and approved Stormwater BMP(s) that is properly maintained by the Property Owner in accordance with the requirements established and approved by the Authority, and as agreed upon by the Property Owner.

No Stormwater Utility Fee credit shall be authorized without a written decision of the Authority as to the Stormwater BMP(s) eligibility. If granted, the credit shall be applied to the Property Owner's Stormwater Utility Fee for the following billing cycle, in accordance with Resolution No. 19-2. Final approval of all Stormwater Utility Fee credits will be at the discretion of the Authority.

Eligible Credit Allowance.

Credit Categories, with associated Maximum Credit percentages, Tier Ratings (level of complexity), and list of qualifying BMPs, are provided below in Table 1 – Stormwater Best Management Practices Information. Credit may be available for all qualifying BMPs which have been implemented, constructed/reconstructed, properly maintained in working condition, and in a manner consistent with the design criteria set forth in the Pennsylvania Stormwater Best Management Practices Manual (PADEP Document No. 363-0300-002, as amended or supplemented), this Resolution, and all applicable Borough Codes and Regulations.

Table 1 – Stormwater Best Management Practices Information

Credit Category	Maximum Credit*	Tier Rating	Stormwater Best Management Practices (BMPs)
Peak Runoff Rate (Flood) Controls	25%	2	Constructed Wetland
		2	Wet Pond / Retention Basin
		2	Dry Extended Detention Basin
		2	Special Detention Areas (parking lots/roof)
Runoff Volume Controls/Green Infrastructure	50%	1	Pervious Pavement with Infiltration Bed
		1	Rain Garden / Bioretention
		1	Runoff Capture & Reuse – Rain Barrel**
		1	Dry Well / Seepage Pit
		2	Green Roof
		2	Infiltration Trench / Tree Infiltration Trench
		2	Infiltration Basin
		2	Subsurface Infiltration Bed
		2	Infiltration Berm & Retentive Grading
		2	Impervious Area Removal with Soil Restoration and Vegetation
		2	Deep Stormwater Injection Well
Water Quality Treatment	25%	2	Constructed Wetland
		2	Constructed Filter
		2	Vegetated Swale
		2	Vegetated Filter Strip
		2	Proprietary Water Quality Filters & Hydrodynamic Devices
		2	Tree Trench with Soil Restoration or Amendment
Non-Structural Controls	15%	1	Tree Canopy Cover
		1	Downspout Disconnection
NPDES Industrial Stormwater Permitted Sites	15%	2	Facilities with an active, fully-compliant NPDES Permit from PADEP
Maximum Credit Applied to Annual Stormwater Utility Fee	**50%**		

*** Actual credit applied is based on percentage of Impervious Area being treated by each qualifying Best Management Practice (BMP).**

**** Rain Barrels – Standard size rain barrels range from 45 to 55 gallons. A maximum of four (4) 55-gallon barrels per acre are allowable, with maximum treatment area of 100 square feet per rain barrel, and must fully and automatically drain within five (5) days and have a minimum discharge infiltration area of 20 square feet, or 5:1 minimum loading ratio, on the Property, per rain barrel. A credit of $2 per standard size rain barrel shall be applied to the total annual Stormwater Utility Fee. Alternative size rain barrels must meet the same standards, with credit adjusted for actual treatment volume, based on a rate of $2 for treatment of 45 gallons of stormwater runoff.**

Common Stormwater BMPs and Eligible Stormwater Utility Fee Credit.

To be eligible for a fee credit, a Property Owner must treat Impervious Area with qualifying BMPs, as listed above in Table 1. The Tier Ratings indicate general complexity and type of information needed by the Authority to review and approve any fee credit. Tier 1 Stormwater BMPs are relatively simple to design, install, and maintain and are commonly used to treat smaller drainage areas (rooftops, driveways, etc.) on smaller properties. Tier 1 Stormwater BMPs may be approved for use by the Authority without detailed formal engineering review. Tier 2 Stormwater BMPs are more complicated and are generally used to treat larger drainage areas and as such require formal engineering review to ensure adequacy.

Note: All Stormwater BMPs used for Stormwater Utility Fee credit must be properly maintained and be fully functional at all times to maintain eligibility.

Tier 1 Stormwater BMPs include:

1. Pervious Pavement with Infiltration Bed
2. Rain Garden / Bioretention
3. Runoff Capture & Reuse – Rain Barrel
4. Dry Well / Seepage Pit
5. Tree Canopy Cover
6. Downspout Disconnection

See Appendix A for additional design information for the Tier 1 Stormwater BMPs listed above and Appendix B for examples of Stormwater Utility Fee credit calculations.

Tier 2 Stormwater BMPs listed in Table 1 are the most commonly used BMPs for treatment of larger drainage areas and are consistent with those included in the Pennsylvania Stormwater Best Management Practices Manual (PADEP Document No. 363-0300-002, as amended or supplemented). Property Owners who have installed or plan to install Tier 2 Stormwater BMPs will need to provide the Authority with a detailed site analysis and engineering design with their Stormwater Utility Fee Credit Application Form to allow for proper review and approval by the Authority.

See Credit Applications section, below, for additional information about the required supplemental information for use of Tier 1 and 2 Stormwater BMPs.

Maximum Credit.

The maximum Stormwater Utility Fee credit for any individual Property is fifty percent (50%) of the calculated Stormwater Utility Fee determined for the entire Property, in accordance with Section 303 of the Resolution regardless of additional credit that may be calculated for additional BMPs on the same Property. The total credit approved shall be rounded to the nearest whole percent.

The credit must be limited due to the need of the Borough to fund the overall Stormwater Management Program, construct public facilities, as well as maintain, repair and/or rehabilitate publicly owned Stormwater BMPs. Even if a Property Owner manages the entirety of his/her/its Stormwater Runoff on their Property, the Borough still has obligations under the MS4 permit to maintain its entire Stormwater Management System to protect the health and safety of the public.

Credit Applications.

For approval (includes new, renewal, and/or change of ownership) of a Stormwater Utility Fee credit by the Authority, the Property Owner must submit a completed Stormwater Utility Fee Credit Application Form (see Appendix C) including any required supplemental materials based on Tier Ratings for Stormwater BMPs.

New credit applications may be submitted to the Authority at any time via the Stormwater Utility Fee Credit Application. Upon receipt of a Stormwater Utility Fee Credit Application, an initial determination of the application's completeness will be made within fifteen (15) days of receipt by a representative of the Authority and/or the Borough Engineer. If the application is deemed incomplete, the application will be returned to the applicant who will be given up to thirty (30) days from the date of written notice to provide missing information necessary to complete the application. Once an application is deemed complete, the Authority will have thirty (30) days to approve or deny the application. However, if, within such thirty (30) day period, the application or documentation is found to be technically deficient by the Authority's engineer, the applicant will be notified in writing and given sixty (60) days to correct such deficiency. Should the deficiency not be corrected within the sixty (60) day period, the application will be deemed abandoned, and the applicant will be required to file a new application and shall be responsible for any applicable fees with such new applications, including applicable review fees. If the applicant corrects such deficiencies within the sixty (60) day period, the Authority shall have thirty (30) days from the date the Authority deems such deficiencies corrected in writing to approve or deny such credit application. Any credit application approved by the Authority will take effect the following billing cycle. Applications approved prior to December 31 will have credit applied during the subsequent year's billing cycle.

The application process does not relieve the Property Owner of payment of any applicable Stormwater Utility Fees during the review process. The written approval of the credit by the Authority shall state the conditions of the issuance of the Stormwater Utility Fee credit and effective date of the credit.

Credit Expiration and Renewals.

Stormwater Utility Fee credits expire annually but may be automatically renewed upon a timely submission of the completed Annual Self-Inspection Report Form (see Appendix E) by the Property Owner, indicating that the Stormwater BMP(s) has/have been properly maintained and

is/are fully functional. All Stormwater BMPs are subject to random inspections by the Authority after prior notification to the Property Owners. To renew the credit, the Property Owner must satisfy the requirements of the section having to do with Inspections more fully explained below. All renewed credits shall become effective January 1 of the year following the date of the renewal application.

To renew the credit, renewal credit applications and change in ownership credit applications need only include supplemental documentation if there have been any changes to the Stormwater BMP(s) on the Property. If previously approved Stormwater BMPs have not been altered, any complete Renewal and Change in Ownership credit applications shall be processed by the Authority within fifteen (15) days of receipt. If previously approved Stormwater BMPs are altered in the previous calendar year, such applications will be processed by the Authority in accordance with the process and timeframes specified for new credit applications as more fully explained in the previous paragraph.

Supplemental information to be provided for new or changed Tier 1 and 2 Stormwater BMPs, include:

1. Tier 1 Stormwater BMPs – Requires submission of a completed Stormwater Utility Fee Credit Application Form and a legible sketch plan on 8 ½" x 11" paper which includes, at a minimum, the following information:

    - Total lot area in square feet;
    - Location and area of all existing Impervious Areas (e.g., surface areas of buildings, patios, paved driveways, etc. where stormwater cannot normally infiltrate into the soil);
    - Location and description of the existing, qualifying and functioning Tier 1 Stormwater BMP(s);
    - Impervious Area in square feet being treated by each Tier 1 Stormwater BMP (see Appendix A for additional information on how treatment areas are determined and calculated for each respective BMP and how credit is applied for each);
    - Calculation to verify the Stormwater BMP(s) has capacity to meet the design criteria, if applicable;
    - Time-stamped photograph(s) of existing, qualifying and functioning Tier 1 Stormwater BMP(s), if applicable;
    - Proposed Operation and Maintenance ("O&M") Schedule detailing the Property Owner's proposed maintenance activities for the Tier 1 Stormwater BMP(s); and
    - Executed Right-of-Entry and Indemnification Agreements (see Appendix D)

2. Tier 2 Stormwater BMPs – Requires submission of a Stormwater Utility Fee Credit Application Form, application review fee, and the following minimum information:

    - Construction or As-Built Plans, at an appropriate scale, showing the site, overland flow paths, drainage flow arrows, stormwater facilities, and the surrounding area;

- Maps delineating drainage areas and/or watersheds, indicating which Impervious Areas flow to the Tier 2 Stormwater BMP(s);
- Time-stamped photograph(s) of existing Tier 2 Stormwater BMP(s);
- Calculations to verify that the Stormwater BMP(s) has capacity to meet the design criteria for the requested credit;
- Proposed Operation and Maintenance ("O&M") Schedule detailing Property Owner's proposed maintenance activities for the Tier 2 Stormwater BMP(s).
- Executed Right-of-Entry and Indemnification Agreements (see Appendix D)
- A copy of the NPDES Permit(s) for Industrial Stormwater from the PADEP, if applicable. The applicant must be able to demonstrate full compliance with the NPDES Permit(s).

Credit Denial and Appeals.

The Authority and/or Borough Engineer may deny a credit for good reason (a "Denial"), including:

1. For a new Stormwater Utility Fee credit application – Failure to submit a complete application with sufficient documentation of the qualifying Stormwater BMP(s) design and proof of construction to demonstrate that the facility meets credit eligibility criteria by the stated application deadline.

2. For an existing stormwater BMP(s) – Failure to meet minimum maintenance requirements and/or maintain full functionality. Failure to submit complete supporting Annual Self-Inspection Reports by the stated deadline.

The Property Owner may appeal the Authority's Denial to the Board of Appeals within thirty (30) days after the date of the Authority's Denial. All such appeals shall be in accordance with Section 306 of the Resolution.

Credit Termination.

Upon written notice, the Authority through its Code Enforcement Officer and/or Zoning Officer may terminate a Stormwater Utility Fee credit for good reason, including failure to meet credit conditions or failure to meet minimum maintenance requirements (a "Credit Termination Notice"). In the event a credit is terminated by the Authority, the credit currently applied to the property will be terminated effective the next billing following the date of termination notice, unless an appeal is filed in accordance with the following section.

Appeal of Credit Termination.

A Property Owner aggrieved by a Credit Termination Notice may appeal the same to the Board of Appeals within thirty (30) days of the date of such notice, provided that the appeal is accompanied by documentation supporting the Property Owner's appeal (e.g., plans, materials, etc.) and any applicable fees.

Upon receipt of the Property Owner's appeal, a hearing shall be scheduled within ninety (90) days before the Board of Appeals. The hearing shall be attended by the Authority's representative who issued the Credit Termination Notice and the Property Owner. After such a hearing, a decision will be made by the Board of Appeals within forty-five (45) days.

Inspections.

Two (2) types of inspections are included as part of this manual: (1) Annual Self-Inspections and (2) Inspections by the Authority, as described below in greater detail.

1. Annual Self-Inspections.

If a property has been given a Stormwater Utility Fee credit pursuant to this manual, the Property Owner must submit to the Authority an Annual Self-Inspection Report for the Property and all applicable Stormwater BMPs for which credit has been granted. The Annual Self-Inspection Report must provide all required information about the Property and Stormwater BMPs, as listed on the Annual Self-Inspection Report Form (see Appendix E). The intent of this Annual Self-Inspection Report is to show that the Property and Stormwater BMPs were properly maintained and fully functional during the preceding calendar year, sufficient for the Authority to approve renewal of the credit during the subsequent year.

A timely Annual Self-Inspection Report must be submitted and date-stamped received by the Authority between September 1 and October 31 of each year. Any Annual Self-Inspection Report submitted outside of such timeframe will be rejected as untimely. Any completed, timely and compliant Annual Self-Inspection Report shall be approved by the Authority and the credit shall continue to the applicant's next billing cycle.

If after receipt of the report, it is deemed non-compliant or submitted untimely, the Property shall be considered non-compliant and a credit will not be applied to the applicant's next billing cycle. If, after initial review by an Authority representative of a timely filed Annual Self-Inspection Report, it is deemed incomplete, the applicant will be notified in writing and given thirty (30) days from the date of such notice to submit a complete reporting indicating full compliance. If a complete report indicating full compliance is received within such thirty (30) day period, the credit will be renewed for the subsequent calendar year. The burden of proof for full compliance is entirely on the Property Owner/applicant.

2. Inspection by the Authority.

Upon application for a Stormwater Utility Fee credit or in connection with an Annual Self-Inspection Report, as more fully explained above, the applicant shall grant the Authority a Right-of-Entry and Indemnification to inspect the Property and Stormwater BMP(s) that are the subject of the application in order to verify the information submitted and to confirm compliance with applicable requirements set forth in this manual. The Right-of-Entry and Indemnification Agreements are provided in Appendix D.

If, after its review or inspection, the Authority finds the application or Annual Self-Inspection Report to be inaccurate or the Stormwater BMP(s) to be non-compliant, the applicant will be notified in writing (the "Non-Compliance Notice") and be given sixty (60) days to correct such inaccuracy or non-compliance listed in the Non-Compliance Notice (the "Non-Compliance Correction Period"). Within the Non-Compliance Correction Period, the applicant must provide to the Authority written documentation and evidence satisfactory to the Authority that the issue(s) listed in the Non-Compliance Notice has/have been corrected and/or that the Stormwater BMP(s) is/are in compliance with all applicable requirements (the "Non-Compliance Response"). If the issue(s) in the Non-Compliance Notice has/have not been corrected or the Stormwater BMP(s) is/are not in compliance, or if the Property Owner fails to provide a Non-Compliance Response to the Authority within the sixty (60) day period, the Stormwater Utility Fee credit will be terminated effective the date of the next billing cycle.

APPENDIX A

Commonly Used Tier 1 Stormwater Best Management Practices (BMPs) Eligible for Stormwater Utility Fee Credit

(See Pennsylvania Stormwater Best Management Practices Manual or consult a design professional for detailed information regarding the design and construction of stormwater BMPs, as well as all Tier 2 Stormwater BMPs)

Pervious Pavement with Infiltration Bed

Pervious pavement consists of a permeable surface course underlain by a uniformly-graded stone bed which provides temporary storage for peak rate control and promotes infiltration. A pervious pavement bed consists of a pervious surface course underlain by a stone bed of uniformly graded and clean-washed coarse aggregate, 1-1/2 to 2-1/2 inches in size, with a void space of at least 40%. The pervious pavement may consist of pervious asphalt, pervious concrete, or pervious pavement units. Stormwater drains through the surface, is temporarily held in the voids of the stone bed, and then slowly drains into the underlying, uncompacted soil mantle.

The stone bed can be designed with an overflow control structure so that during large storm events peak rates are controlled, and at no time does the water level rise to the pavement level. A layer of geotextile filter fabric separates the aggregate from the underlying soil, preventing the migration of fines into the bed. The bed bottoms should be level and uncompacted. If new fill is required, it should consist of additional stone and not compacted soil.

Pervious pavement is well suited for parking lots, walking paths, sidewalks, playgrounds, plazas, tennis courts, and other similar uses. Pervious pavement can be used in driveways if the homeowner is aware of the stormwater functions of the pavement.

Design Requirements - General Criteria Only *(See Pennsylvania Stormwater Best Management Practices Manual for detailed information regarding the design and construction of Pervious Pavement Systems)*:

- Site evaluation shall be completed to determine suitability for the use of pervious pavement
- Areas should be oriented along existing contours to reduce the need for extensive grading.
- Pervious pavement and infiltration beds should not be placed in areas of recent fill or compacted fill.
- The bed bottom should be level or nearly level and should not be compacted.
- Underlying infiltration bed is typically 12 to 36 inches deep and comprised of clean, uniformly graded aggregate with approximately 40% void space.
- Stone subbase should be placed in lifts and lightly rolled.
- All systems should be sized appropriately for the contributing impervious area. Systems should be designed to capture 1-inch of runoff from the impervious area.
- All systems should be designed with an overflow system, with a stabile discharge (from the point of discharge to the receiving water or wetland).
- After completion, full permeability of the pavement surface should be tested by application of clean water at the rate of 5 gallons per minute (minimum) over the surface using a hose or other distribution device. All applied water should infiltrate directly without puddling or surface runoff.
- Sediment shall be controlled and measures provided to prevent sediment from being deposited on the pavement surface or within the stone bed.

- Surface sediment should be removed by a vacuum sweeper and should not be power-washed into the bed.
- The treatment area for this BMP is the area of Impervious Area replaced by the BMP (e.g., impervious surface that is replaced by the pervious pavement surface), as well as the area of any other on-site Impervious Area draining to and treated by this BMP (e.g., impervious asphalt that drains to the pervious pavement, with the pervious pavement infiltration potential sufficient to treat the runoff from the impervious asphalt (for the one (1) year storm event volume)).

Rain Garden / Bioretention

A rain garden (also called bioretention) is an excavated shallow surface depression planted with specially selected native vegetation to treat and capture runoff. Rain gardens treat stormwater by pooling water on the surface and allowing filtering and settling of suspended soils and sediment at the mulch layer, prior to entering the plant/soil/microbe complex media for infiltration and pollutant removal. Rain gardens can be designed and placed to collect and absorb runoff from rooftops, sidewalks, and paved areas providing water quality improvement and water quantity reduction.

Rain gardens can be used in a variety of applications, from small areas in residential lawns to extensive systems in large parking lots. They are flexible in design and can vary in complexity.

Design Requirements - General Criteria Only *(See Pennsylvania Stormwater Best Management Practices Manual for detailed information regarding the design and construction of Rain Gardens/Bioretention Systems)*:

- Soil drainage tests must be completed prior to constructing the rain garden to confirm the facility will be able to handle the water getting to it and empty within the required time. Surface Ponding depth should not exceed 6 inches in most cases and the facility should empty within 72 hours.
- Rain garden must be sized appropriately relative to the contributing impervious area and be able to capture the 1-inch of runoff from the impervious area.
- Surface area is dependent upon storage volume requirements but should generally not exceed a maximum loading ratio of 5:1 (impervious drainage area to infiltration area).
- The rain garden should be designed to be able to release water in a controlled manner and direction during excess stormwater events.
- Surface side slopes should be gradual. For most areas, maximum 3:1 side slope is recommended, however where space is limited, a 2:1 side slope may be acceptable.
- Planting soil depth should generally be at least 18 inches where only herbaceous plant species will be utilized. If trees and woody shrubs will be used, soil media depth may be increased, depending on plant species.
- Planting soil should be a loam soil capable of supporting a healthy vegetative cover. Soils should be amended with a composted organic material. A typical organic amended soil is with 20-30% organic material (compost), and 70-80% soil base (preferably topsoil). Planting soil should be approximately 4 inches deeper than the bottom of the largest root ball.
- Volume storage soils should also have a pH of between 5.5 and 6.5 (better pollutant adsorption and microbial activity), a clay content less than 10% (a small amount of clay is beneficial to adsorb pollutants and retain water), be free of toxic substances and unwanted plant material and have a 5 –10% organic matter content.
- Proper plant selection is essential for bioretention areas to be effective. Typically, native floodplain plant species are best suited to the variable environmental conditions encountered. Planting of shrubs and trees is also recommended.

- Planting periods will vary, but in general trees and shrubs should be planted from mid-March through the end of June, or mid-September through mid-November.
- A maximum of 2 to 3 inches of shredded mulch or leaf compost (or other comparable product) should be uniformly applied immediately after shrubs and trees are planted to prevent erosion, enhance metal removals, and stimulate leaf litter in a natural forest system.
- The treatment area for this BMP is the area of Impervious Area that drains directly into and is treated by this BMP.

Runoff Capture & Reuse – Rain Barrel

Rainwater harvesting systems collect and store rainfall temporarily for later use, delayed discharge, and/or infiltration. When designed appropriately, they prevent, slow, and/or reduce runoff and provide a valuable source of water for watering lawns, flower gardens, and house plants.

A rain barrel is any type of container used to catch water flowing from a downspout or rooftop. The rain barrel is placed underneath a shortened downspout and roof runoff is diverted into it. For every 1 inch of rain that falls on 1 square foot of rooftop, 0.6 gallons of runoff is produced and can be "collected." Therefore, 100 square feet of roof area will produce about 60 gallons of rainwater runoff during a 1-inch rain event. Typical rain barrels are 55-gallon, more or less depending on model. A maximum of four (4) rain barrels may be used per acre of property.

To serve the function of stormwater management, it is necessary for rain barrels to empty via a slow release within five (5) days immediately following the end of a rain event, so that they are able to accept rainfall for the next rain event. To accomplish this, the outlet port on the bottom of a rain barrel must be partially opened and adjusted to prolong the release over a 3- to 5-day period. The discharge must be onto a permeable surface (e.g., lawn, garden, etc.) or infiltration facility on the owner's property. Therefore, the discharge for each rain barrel should have a minimum 5:1 loading rate for area to help avoid overloading issues and potential sinkhole development, which means that at least 20 square feet of pervious surface must be available at the point of discharge from the rain barrel to infiltrate runoff collected and treated by the rain barrel from a 100-square foot roof area (maximum allowable per rain barrel). Engineered stormwater infiltration systems may have lower ratios for loading rates, as determined by a qualified Professional Engineer.

Note, water collected in rain barrels is not suitable for human consumption and due to lack of research data, and water collected in a rain barrel is not recommended for watering vegetable gardens.

Design Requirements – General Criteria Only:

- The rain barrel must have a minimum storage/release capacity of 45 gallons.
- The rain barrel must capture runoff from an adjacent rooftop of at least 100 square feet for credit, in order to maximize capture of the 1-inch rain event. Rooftop area in excess of 100 square feet will overflow the barrel for the 1-inch rain event, and therefore is not treated and does not count toward credit.
- The rain barrel must empty within 3 to 5 days immediately following each rain event in order to maintain adequate available capacity in the rain barrel. Collected water shall not to be used for consumption and is not recommended for watering vegetable gardens as noted above.
- Discharges from rain barrels must be to pervious surfaces on the owner's property and of sufficient size to prevent runoff to off-site properties. A 5:1 loading rate (impervious drainage area to infiltration area) would mean that each rain barrel must have at least 20 square feet of pervious surface on the owner's property at the controlled discharge point.

- The rain barrel shall have a spigot at the bottom to discharge water.
- The rain barrel shall be placed on a sturdy, raised platform to allow for adequate clearance under the spigot and to increase the rate of flow when attaching a hose to the spigot.
- The rain barrel must have an overflow near the top of the barrel to discharge overflow during large storm events.
- All rain barrel openings, other than the spigot, must have screens for mosquito control.
- Routinely inspect and remove any accumulated debris on the lid that may block the screen mesh.
- Routinely clean the inside of the rain barrel to reduce algae growth. Barrel should be located/protected from direct sunlight to minimize algae growth.
- The treatment area for this BMP is the area of Impervious Area that drains directly into this BMP, for a maximum treatment area of 100 square feet per rain barrel, with a maximum of four (4) rain barrels per acre of property.

Dry Well / Seepage Pit

A Dry Well, sometimes called a Seepage Pit, is a subsurface storage facility that temporarily stores and infiltrates stormwater runoff from the roofs of structures. Roof leaders connect directly into the dry well, which may be either an excavated pit filled with uniformly graded aggregate wrapped in geotextile or a prefabricated storage chamber or pipe segment. Dry wells discharge the stored runoff via infiltration into the surrounding soils. An overflow mechanism (surcharge pipe, connection to a larger infiltration area, etc.) is provided to safely convey stormwater runoff in the event that the dry well is overwhelmed in an intense storm event.

By capturing runoff at the source, dry wells can reduce the increased volume of stormwater generated by the roofs of structures. By decreasing the volume of stormwater runoff, dry wells can also reduce runoff rate and improve water quality. As with other infiltration practices, dry wells may not be appropriate for "hot spots" or other areas where high pollutant or sediment loading is expected without additional design considerations. Dry Wells are not recommended within a specified distance to structures or subsurface sewage disposal systems.

Design Requirements - General Criteria Only *(See Pennsylvania Stormwater Best Management Practices Manual for detailed information regarding the design and construction of Dry Wells/Seepage Pits)*:

- Dry wells are sized to temporarily retain and infiltrate stormwater runoff from roofs of structures. A dry well typically provides stormwater management for a limited roof area. Care should be taken not to hydraulically overload a dry well based on bottom area and drainage area. Testing shall be completed as required to ensure proper infiltration at proposed site location.
- Dry wells are not recommended when their installation would create a significant risk for basement seepage or flooding. In general, infiltration BMPs should be sited so that they present no threat to sub-surface structures, at least 10 feet down gradient or 100 feet up gradient from building basement foundations, and 50 feet from septic system drain fields, unless specific circumstances allow for reduced separation distances
- Dry wells should drain-down within 72 hours. Longer drain-down times reduce dry well efficiency and can lead to anaerobic conditions, odor and other problems.
- Dry wells typically consist of 18 to 48 inches of clean washed, uniformly graded aggregate with 40% void capacity (AASHTO NO. 3, or similar). Dry well aggregate is wrapped in a nonwoven geotextile, which provides separation between the aggregate and the surrounding soil. At least 12 inches of soil is then placed over the dry well. A prefabricated dry well can also be used.
- Dry wells should be able to convey system overflows to downstream drainage systems. System overflows can be incorporated either as surcharge (or overflow) pipes extending from roof leaders or via connections to more substantial infiltration areas.

- The design depth of a dry well should take into account frost depth to prevent frost heave.
- A removable filter with a screened bottom should be installed in the roof leader below the surcharge pipe in order to screen out leaves and other debris.
- Adequate inspection and maintenance access to the dry well should be provided. Observation wells not only provide the necessary access to the dry well, but they also provide a conduit through which pumping of stored runoff can be accomplished in case of slowed infiltration.
- Measures such as roof gutter guards, roof leader clean-out with sump, or an intermediate sump box can provide pretreatment for dry wells by minimizing the amount of sediment and other particulates that may enter it.
- Dry Well Volume = Dry Well Area (square feet) x Dry Well Water Depth (feet) x 40% (if stone filled)
- Dry well may consider both bottom and side (Lateral) infiltration according to design standards.
- The treatment area for this BMP is the area of Impervious Area that drains directly into this BMP, as designed and specified for treatment by this BMP.

Tree Canopy Cover

Trees can provide a reduction in stormwater quantity and provide water quality benefits by reducing impervious area, promoting infiltration, and filtering pollutants. They also can reduce urban heat and improve air quality. For these reasons, tree planting is eligible for a credit, but only when all design requirements are met.

Design Requirements:

- Trees must be planted where they are likely to thrive and create a full tree canopy that intercepts rainfall and reduces stormwater runoff from developed areas of the property. Trees planted in areas where less than 25% of their Mature Average Canopy Spread (see Appendix F for Canopy Spread Information) overlaps the limits of existing impervious area on the property will not be eligible for credit.
- Only native or naturalized tree species may be planted (see Appendix F), with a species selected that best fits the specific site conditions and environment. All tree species shall be approved by the Authority and Zoning Officer prior to planting.
- Trees shall be planted in a location that will allow them to grow naturally (without pruning) and cover an impervious area on the Property, such as driveway, sidewalk or roof. All planting locations shall be approved by the Authority and Zoning Officer prior to planting.
- Trees must have a minimum 2-inch caliper at the time of planting.
- Trees must have a sufficient tree opening space (typically 25 square feet minimum) to allow for trunk and root growth, as well as runoff infiltration between areas such as curbs and sidewalks, or driveways and sidewalks, etc. A good rule of thumb is to allow a minimum distance of three (3) feet between the center of the tree and nearby structures/impervious surfaces.
- Overhead and underground utilities must be taken into consideration for the long-term growth of planted trees and the potential future conflicts. Pruning that diminishes the trees' ability to adequately mitigate stormwater runoff, as determined by the Authority or Zoning Officer, will disqualify the trees as stormwater BMPs used for Stormwater Utility Fee credit.
- Planted trees must be in good health with full canopies, normal for the particular species and age, without pruning or other loss that compromises their ability to adequately mitigate stormwater runoff.
- The treatment area for each planted tree is the area of Impervious Area on the property that the Mature Average Canopy Spread will cover for the tree species, as provided in Appendix F – Tree List, Mature Average Canopy Spread. The canopy spread (assumed to be round) is measured from the center of the tree using the listed species-specific Mature Average Canopy Spread radius in Appendix F, and is calculated as the percentage of Impervious Area that will be covered by the mature canopy

size, rounded to the nearest 25% *(i.e. ¼ circle, ½ circle, ¾ circle or full circle),* as provided in Appendix F – Tree List, Area for Estimated Percentage Canopy Coverage of Impervious Area.

Property Owners assume full responsibility for any and all damages and liabilities that may result from the planting, growth, and maintenance of trees.

Downspout Disconnection

Downspout Disconnection is the process of physically separating roof downspouts from discharge into the Authority's storm sewer collection system and redirecting runoff from roofs onto pervious, landscaped surfaces where it can infiltrate into the ground. This practice reduces the amount of Impervious Area directly connected to the Authority's system.

Design Requirements:

- Downspouts must be disconnected from roof drains discharging directly into a storm inlet, catch basin or other structure of the Authority's storm sewer collection system or discharging directly to a street, alley or other public right-of-way.
- Downspouts must discharge into a suitable pervious area, such as a garden, landscaped area, or planter that will infiltrate the volume produced by a one-inch storm. Areas or soils must be determined to be appropriate for infiltration practices. The pervious area shall have maximum loading ratio of 5:1 (impervious area surface (drainage area) to infiltration area surface), or in other words the size of the infiltration area surface must be a minimum of 20% of the size of the roof area surface that drains to the disconnected downspout discharge.
- Downspouts must discharge a minimum of 3 feet away from structures, including basements, garages, sheds, and porch steps.
- A splash block or similar structure must be used to spread water out and prevent erosion.
- Runoff must not flow toward building foundations or adversely impact adjacent or downstream properties.
- The treatment area for this BMP is the area of Impervious Area that drains directly into the downspout that is disconnected and treated by this BMP.

APPENDIX B

Examples of Stormwater Utility Fee Credit Calculation

EXAMPLE 1: The owner of a Property with 10,000 square feet of Impervious Area installs one (1) rain garden which handles stormwater runoff flows from an asphalt parking lot with an area of 2,000 square feet (20% of the total Impervious Area on the Property). Therefore:

50% (Maximum Credit for Rain Garden) X 2,000 square feet (Impervious Area being treated) / 10,000 square feet (Total Impervious Area on Property) = 10% total credit for the stormwater BMP for that Property.

EXAMPLE 2: A Property Owner installs rain gardens and dry wells which handle the stormwater runoff flows from 100% of the Impervious Area (e.g., 10,000 square feet) on the Property. Therefore:

50% (Maximum Credit for Rain Gardens and Dry Wells) X 10,000 square feet (Impervious Area being treated) / 10,000 square feet (Total Impervious Area on Property) = 50% total credit for the stormwater BMPs for that Property.

EXAMPLE 3: A property 1,600 square feet of Impervious Area installs an infiltration trench which handles the stormwater runoff flows from 1,400 square feet of the Impervious Area on the property. Therefore:

50% (Maximum Credit for Infiltration Trench) X 1,400 square feet (Impervious Area being treated) / 1,600 square feet (Total Impervious Area on Property) = 43.8% total credit for the stormwater BMP for that Property.

EXAMPLE 4: A Property with 4,500 square feet of Impervious Area installs one (1) rain garden which handles stormwater runoff flows from an asphalt parking lot with an area of 1,000 square feet (22.2% of the total Impervious Area on the Property), one (1) drywell to handle 600 square feet of roof drainage (13.3% of the total Impervious Area on the Property), and disconnects downspouts from 600 square feet of roof drainage (13.3% of the total Impervious Area on the Property). Therefore:

50% (Maximum Credit for Rain Garden) X 1,000 square feet (Impervious Area being treated) / 4,500 square feet (Total Impervious Area on Property) = 11.11% total credit for the stormwater BMP for that Property.

50% (Maximum Credit for Dry Well) X 600 square feet (Impervious Area being treated) / 4,500 square feet (Total Impervious Area on Property) = 6.67% total credit for the stormwater BMP for that Property.

15% (Maximum Credit for Downspout Disconnection) X 1,000 square feet (Impervious Area being treated) / 4,500 square feet (Total Impervious Area on Property) = 3.33% total credit for the stormwater BMP for that Property.

TOTAL CREDIT = 11.11% + 6.67% + 3.33% = 21.11%

EXAMPLE 5: The owner of a Property with a home having 1,200 square feet of rooftop (Impervious Area) installs three (3) rain barrels that treat a total of 100 square feet/each and which slowly drain from full to empty onto lawn areas with surfaces greater than 20 square feet/each to allow infiltration within five (5) days. Each rain barrel provides a credit amount of $2 towards the annual Stormwater Utility Fee. Therefore:

Three (3) rain barrels X $2 each = $6 total credit.

NOTE: In this example, each rain barrel treats 100 square feet of rooftop drainage area. Therefore, other stormwater BMPs may be used for this Property to treat up to the additional rooftop area of 900 square feet that is not treated by the three (3) rain barrels.

EXAMPLE 6: The owner of a large property with 80,000 square feet of Impervious Area installs a Wet Pond which handles stormwater runoff flows from an asphalt parking lot with an area of 60,000 square feet (75% of the Impervious Area on the property). Therefore:

25% (Maximum Credit for Wet Pond) X 60,000 square feet (Impervious Area being treated) / 80,000 square feet (Total Impervious Area on Property) = 18.8% total credit for the stormwater BMP for that Property.

APPENDIX C

Stormwater Utility Fee Credit Application Form

Borough Use Only: File Number_____ Date Received_____

Approvals: Authority Representative____ Borough Engineer____ Zoning Officer____

STORMWATER UTILITY FEE CREDIT APPLICATION

Complete and return this form to:

Fountain Hill Stormwater Authority
Borough Hall
941 Long Street
Fountain Hill, PA 18015
Phone: 610.867.0301; Fax: 610.867.7153
Website Address: http://www.fountainhill.org/ms4
Email: zoning@fhboro.org

Date: _____

Type of Application (check all that apply):

____ **New**

____ **Renewal**
- ____ *No change to BMP(s)*
- ____ *Change to BMP(s)*

____ **Change in Ownership**
- ____ *No change to BMP(s)*
- ____ *Change to BMP(s)*

1. PROPERTY OWNER INFORMATION

Owner's Name _____

Property Address _____

Owner's Mailing Address _____

Owner's Phone _____ Fax _____ Email _____

Stormwater Utility Account Number for Property _____

Total Impervious Area (s.f.) _____ *(Impervious Area information can be found on the Stormwater Assessment Notice)*

2. STORMWATER CREDIT CALCULATION

Percent Fee Reduction Equation: A x B ÷ C = D
Example (below): 50% x 8,000 s.f. ÷ 10,000 s.f. = 40% reduction

	A	B	C	D
Credit Category/Best Management Practice (see Item 3 on next page)	**Maximum Credit Available for Stormwater BMP (see Item 3 on next page)**	**Impervious Area on Property Treated by BMP (s.f.)**	**Total Impervious Area on Property (s.f.)**	**Percent Fee Reduction**
Example: Volume Control/Green Infrastructure - Rain garden/ bioretention	*50%*	*8,000*	*10,000*	*40%*
			+	
			+	
			+	
			+	
		TOTAL % FEE REDUCTION =		**%**
Number of Rain Barrels ($2 credit/each):	**TOTAL COST REDUCTION AMOUNT FOR RAIN BARRELS =**			**$**

3. CREDIT CATEGORIES AND MAXIMUM CREDIT AVAILABLE FOR BEST MANAGEMENT PRACTICES (BMPs)

Credit Category	Maximum Credit*	Tier Rating**	Best Management Practices (BMPs)
Peak Runoff Rate (Flood) Controls	25%	2	Constructed Wetland
		2	Wet Pond / Retention Basin
		2	Dry Extended Detention Basin
		2	Special Detention Areas (parking lots/roof)
Runoff Volume Controls/Green Infrastructure	50%	1	Pervious Pavement with Infiltration Bed
		1	Rain Garden / Bioretention
		1	Runoff Capture & Reuse – Rain Barrel***
		1	Dry Well / Seepage Pit
		2	Green Roof
		2	Infiltration Trench / Tree Infiltration Trench
		2	Infiltration Basin
		2	Subsurface Infiltration Bed
		2	Infiltration Berm & Retentive Grading
		2	Impervious Area Removal with Soil Restoration and Vegetation
		2	Deep Stormwater Injection Well
Water Quality Treatment	25%	2	Constructed Wetland
		2	Constructed Filter
		2	Vegetated Swale
		2	Vegetated Filter Strip
		2	Proprietary Water Quality Filters & Hydrodynamic Devices
		2	Tree Trench with Soil Restoration or Amendment
Non-Structural Controls	15%	1	Tree Canopy Cover
		1	Downspout Disconnection
NPDES Industrial Stormwater Permitted Sites	15%	2	Facilities with an active, fully-compliant PADEP NPDES Permit
Maximum Credit Applied to Annual Stormwater Utility Fee	**50%**		

* Actual credit applied is based on percentage of Impervious Area being treated by each qualifying Best Management Practice (BMP).

** Rain Barrels – Standard size rain barrels range from 45 to 55 gallons. A maximum of four (4) 55-gallon barrels per acre are allowable, with maximum treatment area of 100 square feet per rain barrel, and must fully and automatically drain within five (5) days and have a minimum discharge infiltration area of 20 square feet, or 5:1 minimum loading ratio, on the Property, per rain barrel. A credit of $2 per standard size rain barrel shall be applied to the total annual Stormwater Utility Fee. Alternative size rain barrels must meet the same standards, with credit adjusted for actual treatment volume, based on a rate of $2 for treatment of 45 gallons of stormwater runoff.

4. REQUIRED DOCUMENTATION

For approval (includes new, renewal, and/or change of ownership) of a Stormwater Utility Fee credit by the Authority, the Property Owner must submit the following supplemental materials based on the Tier Rating of the stormwater BMP(s) for which credit is being applied. In addition, Tier 2 BMPs require an Application Fee to be submitted.

Renewal credit applications and Change in Ownership credit applications only need to include supplemental documentation if there have been any changes to the stormwater BMP(s) on the Property. If previously approved stormwater BMPs are not changed, complete Renewal and Change in Ownership credit applications will be processed by the Authority within fifteen (15) days of receipt. If previously approved stormwater BMPs are changed in any way, Renewal and Change in Ownership credit applications will be processed by the Authority in accordance with the process and timeframes specified for New credit applications (see above).

Supplemental information to be provided for new or changed Tier 1 and 2 Stormwater BMPs, includes:

1. **Tier 1 Stormwater BMPs** – Requires submission of a completed Stormwater Utility Fee Credit Application Form and the following supplemental information:

    - A legible sketch plan on 8 ½" x 11" paper, including:
        - Total lot area in square feet
        - Location and area of all existing Impervious Areas (see Definitions) (e.g., surface areas of buildings, patios, paved driveways, etc. where stormwater cannot normally infiltrate into the soil)
        - Location and description of the existing, qualifying Tier 1 Stormwater BMP(s)
        - Impervious Area in square feet being treated by the Tier 1 Stormwater BMP(s)
        - Calculation to verify the stormwater BMP(s) has capacity to meet the design criteria, if applicable
    - Time-stamped photograph(s) of existing Tier 1 Stormwater BMP(s), if applicable
    - Proposed Operation and Maintenance (O&M) Schedule detailing the Property Owner's proposed maintenance activities for the Tier 1 Stormwater BMP(s)
    - Executed Right-of-Entry and Indemnification Agreements (see Appendix D)

2. **Tier 2 Stormwater BMPs** – Requires submission of a completed Stormwater Utility Fee Credit Application Form and the following supplemental information:

    - Application review fee(s), as determined by Resolution
    - Proposed or As-built Plans, at an appropriate scale, showing the site, overland flow paths, drainage flow arrows, stormwater facilities, and the surrounding area
    - Maps delineating drainage areas and/or watersheds, indicating which impervious areas flow to the Tier 2 Stormwater BMP(s)
    - Time-stamped photograph(s) of existing Tier 2 Stormwater BMP(s)
    - Calculations to verify that the stormwater BMP(s) has capacity to meet the design criteria for the requested credit
    - Proposed Operation and Maintenance (O&M) Schedule detailing Property Owner's proposed maintenance activities for the Tier 2 Stormwater BMP(s).
    - Executed Right-of-Entry and Indemnification Agreements (see Appendix D)
    - A copy of the NPDES Permit(s) for Industrial Stormwater from the PADEP, if applicable. The applicant must be able to demonstrate full compliance with the NPDES Permit(s).

I, as Property Owner or Agent, hereby certify that the information contained in and attached to this application is true and accurate to the best of my knowledge and that the stormwater BMP(s) for which I seek credit are in good working order. I acknowledge that no person shall modify, remove, fill, landscape or alter any stormwater BMPs, facilities, areas, drainage areas (to stormwater BMPs) or structures without the prior written approval of the Fountain Hill Stormwater Authority. I understand that false information may result in a notice of violation and/or termination of Stormwater Utility Fee credits. I also authorize Authority representatives to enter my property, with no less than twenty-four hours prior notice, to investigate or ascertain the condition of the stormwater BMPs on my property.

_____

Property Owner's/Agent's Signature *Date*

APPENDIX D

Right-of-Entry and Indemnification Agreements

FOUNTAIN HILL STORMWATER AUTHORITY
RIGHT-OF-ENTRY AGREEMENT

I/We,_____ , (the "Owner(s)") owner(s) of the real property commonly known as_____ (hereafter "Property"), in the Borough of Fountain Hill, Lehigh County, Pennsylvania, and in consideration of any approved applicable credit against Stormwater Utility Fees due for the Property payable to the Fountain Hill Stormwater Authority, Borough of Fountain Hill, Pennsylvania, do herby grant and freely give without coercion the right of access and entry to said Property at reasonable times to the Authority, its employees, agents, representatives, contractors and subcontractors, for the purpose of performing necessary inspections of onsite stormwater management controls and site activities related to stormwater runoff management on the Property.

The undersigned herby affirm/affirms that he/she/they is/are the owner(s) of the above-referenced property and has/have authority to enter into this Agreement and grant Right-of-Entry.

The undersigned agree/agrees and warrant/warrants to waive, and to hold harmless the Fountain Hill Stormwater Authority, its employees, agents, representatives, contractors and subcontractors from any and all claims or actions, legal or equitable, arising from, out of, or related to the inspection activities on the Property performed by the Fountain Hill Stormwater Authority, its employees, agents, representatives, contractors and subcontractors pursuant to this Right-of-Entry Agreement.

The Fountain Hill Stormwater Authority, in consideration of the rights granted to it herein, the sufficiency and receipt of which are hereby acknowledged, agrees to limit the inspection activities to visual inspections and review of relevant records necessary to verify stormwater credit eligibility.

I/We have not received, nor shall I/we receive, any compensation for this Right-of-Entry Agreement.

[Signatures to Follow]

[Signature Page to Right-of-Entry Agreement]

For the consideration and purposes set forth herein, I/we set my/our hand/hands this _____ day of _____, 20_____.

Owner(s): _____ _____

Printed: _____ _____

STATE OF PENNSYLVANIA)
) SS:
COUNTY OF LEHIGH)

Before me, the undersigned, a Notary Public in and for the said County and State, this _____ day of _____, 20_____, personally appeared _____ _____, Owner/Owners and acknowledged the execution of the foregoing Right-of-Entry Agreement as his/her/their voluntary act and deed.

Notary Public _____
My Commission Expires: _____,
Resident of _____ County

Fountain Hill Stormwater Authority: _____
Printed: _____
Title: _____

STATE OF PENNSYLVANIA)
) SS:
COUNTY OF LEHIGH)

Before me, the undersigned, a Notary Public in and for the said County and State, _____ day of _____, 20_____, personally appeared _____ _____, Owner/Owners and acknowledged the execution of the foregoing Right-of-Entry Agreement as his/her/their voluntary act and deed.

Notary Public _____
My Commission Expires: _____,
Resident of _____ County

Fountain Hill Stormwater Authority: _____
Printed: _____
Title: _____

INDEMNIFICATION AGREEMENT

In consideration for permission to construct or install a stormwater improvement/best management practice (BMP) to their property, located at _____ (the "Property"), _____ ("Owner(s)") hereby agree to and acknowledge the following:

1. Owner(s) shall construct or install a stormwater improvement/BMP in substantial compliance with Resolution No. 19-2 and all subsequent amendments of the Fountain Hill Stormwater Authority, Borough of Fountain Hill, Pennsylvania (the "Authority") on their Property situated in the Borough of Fountain Hill, Lehigh County, Pennsylvania, to wit: See legal description(s) attached as Exhibit A.

2. After completion of the construction or installation by Owners and approval by the Authority, the stormwater improvement/BMP shall remain a privately owned and maintained stormwater improvement/BMP and shall not be accepted by the Authority and/or become a part of the maintenance program of the Authority. All maintenance, responsibility and liability of the stormwater improvement/BMP shall be and remain with the Owners, their personal representatives, heirs, grantees, successors, and assigns.

3. Owners, their personal representatives, heirs, grantees, successors, and assigns shall indemnify and hold harmless the Authority, its officers, agents, and employees from any and all claims, actions, causes of action, judgments, damages, losses, costs, and expenses (including attorney's fees) arising out of or resulting from the construction, installation, maintenance, or operation of the stormwater improvement/BMP.

4. This Agreement shall run with the Property and shall be binding upon Owners, their personal representatives, heirs, grantees, successors, and assigns so long as the stormwater improvement/BMP or any part of it shall be used by them. At such time as the stormwater improvement/BMP shall cease to be so used, this Agreement shall immediately terminate, and this instrument shall be of no further force and effect.

5. Owners represent and warrant that they are the owners in fee simple of the above-described Property, are lawfully seized thereof, and have the legal authority to execute this Agreement, and affirm that no unauthorized alterations of this document have taken place.

[Signatures to Follow]

[Signature Page to Indemnification Agreement]

IN WITNESS WHEREOF, Owners and the Fountain Hill Stormwater Authority have executed this Agreement on this _____ day of _____, 20_____.

Owner(s): _____ _____

Printed: _____ _____

STATE OF PENNSYLVANIA)
) SS:
COUNTY OF LEHIGH)

Before me, the undersigned, a Notary Public in and for the said County and State, this _____ day of _____, 20_____, personally appeared _____ _____, Owner/Owners and acknowledged the execution of the foregoing Indemnification Agreement as his/her/their voluntary act and deed.

Notary Public _____
My Commission Expires: _____,
Resident of _____ County

Fountain Hill Stormwater Authority: _____
Printed: _____
Title: _____

STATE OF PENNSYLVANIA)
) SS:
COUNTY OF LEHIGH)

Before me, the undersigned, a Notary Public in and for the said County and State, _____ day of _____, 20_____, personally appeared _____ _____, Owner/Owners and acknowledged the execution of the foregoing Indemnification Agreement as his/her/their voluntary act and deed.

Notary Public _____
My Commission Expires: _____,
Resident of _____ County

Fountain Hill Stormwater Authority: _____
Printed: _____
Title: _____

APPENDIX E

Annual Self-Inspection Report Form

Borough Use Only: File Number_____ Date Received_____

Approvals: Authority Representative____ Borough Engineer____ Zoning Officer____

ANNUAL SELF-INSPECTION REPORT (to be submitted with all Renewal Applications)

Complete and return this form to:
Fountain Hill Stormwater Authority
Borough Hall
941 Long Street
Fountain Hill, PA 18015
Phone: 610.867.0301; Fax: 610.867.7153
Website Address: http://www.fountainhill.org/ms4
Email: zoning@fhboro.org

Date: _____

1. PROPERTY OWNER INFORMATION

Owner's Name _____

Property Address _____

Owner's Mailing Address _____

Owner's Phone _____ Fax _____ Email _____

Stormwater Utility Account Number for Property _____

2. STORMWATER INFORMATION (complete for each approved stormwater BMP)

TIER 1 BMPs

Stormwater BMP Type: _____
Year Constructed/Installed: _____ Total Impervious Area Treated by Stormwater BMP (s.f.): _____

General Condition:	Yes	No	N/A
Is the BMP in good, functioning condition and performing as intended/designed?	☐	☐	☐
Has the BMP been modified in any way since original installation?	☐	☐	☐
Was the BMP modified in any way during this past year?	☐	☐	☐
Was maintenance performed on the BMP during this past year? If so, please describe: _____	☐	☐	☐
Was sediment and/or debris removed from the BMP during this past year? If so, how were the materials disposed: _____	☐	☐	☐

Stormwater BMP Type: _____
Year Constructed/Installed: _____ Total Impervious Area Treated by Stormwater BMP (s.f.): _____

General Condition:	Yes	No	N/A
Is the BMP in good, functioning condition and performing as intended/designed?	☐	☐	☐
Has the BMP been modified in any way since original installation?	☐	☐	☐
Was the BMP modified in any way during this past year?	☐	☐	☐
Was maintenance performed on the BMP during this past year? If so, please describe: _____	☐	☐	☐
Was sediment and/or debris removed from the BMP during this past year? If so, how were the materials disposed: _____	☐	☐	☐

Stormwater BMP Type: _____
Year Constructed/Installed: _____ Total Impervious Area Treated by Stormwater BMP (s.f.): _____

General Condition:	Yes	No	N/A
Is the BMP in good, functioning condition and performing as intended/designed?	☐	☐	☐
Has the BMP been modified in any way since original installation?	☐	☐	☐
Was the BMP modified in any way during this past year?	☐	☐	☐
Was maintenance performed on the BMP during this past year? If so, please describe: _____	☐	☐	☐
Was sediment and/or debris removed from the BMP during this past year? If so, how were the materials disposed: _____	☐	☐	☐

Stormwater BMP Type: _____
Year Constructed/Installed: _____ Total Impervious Area Treated by Stormwater BMP (s.f.): _____

General Condition:	Yes	No	N/A
Is the BMP in good, functioning condition and performing as intended/designed?	☐	☐	☐
Has the BMP been modified in any way since original installation?	☐	☐	☐
Was the BMP modified in any way during this past year?	☐	☐	☐
Was maintenance performed on the BMP during this past year? If so, please describe: _____	☐	☐	☐
Was sediment and/or debris removed from the BMP during this past year? If so, how were the materials disposed: _____	☐	☐	☐

TIER 2 BMPs

Stormwater BMP Type: _____

Year Constructed/Installed: _____ Total Impervious Area Treated by Stormwater BMP (s.f.): _____

General Condition:	Yes	No	N/A
Is the primary outfall pipe/ditch clear and functioning?	☐	☐	☐
Are the inflow pipes/ditches clear and functioning?	☐	☐	☐
Are water quality pool control weirs, pipes, etc. working properly?	☐	☐	☐
Is the water quality pool at the correct height (if present)?	☐	☐	☐
Are water quality pool control weirs, pipes, etc. working properly?	☐	☐	☐
Are emergency overflow devices clear and functional (if present)?	☐	☐	☐
Is the stormwater BMP clear of sediment (with proper sediment disposal)?	☐	☐	☐
Is vegetation being managed in a manner appropriate to the facility, as designed?	☐	☐	☐
Is the stormwater BMP working as originally intended, designed, and constructed/installed?	☐	☐	☐

Stormwater BMP Type: _____

Year Constructed/Installed: _____ Total Impervious Area Treated by Stormwater BMP (s.f.): _____

General Condition:	Yes	No	N/A
Is the primary outfall pipe/ditch clear and functioning?	☐	☐	☐
Are the inflow pipes/ditches clear and functioning?	☐	☐	☐
Are water quality pool control weirs, pipes, etc. working properly?	☐	☐	☐
Is the water quality pool at the correct height (if present)?	☐	☐	☐
Are water quality pool control weirs, pipes, etc. working properly?	☐	☐	☐
Are emergency overflow devices clear and functional (if present)?	☐	☐	☐
Is the stormwater BMP clear of sediment (with proper sediment disposal)?	☐	☐	☐
Is vegetation being managed in a manner appropriate to the facility, as designed?	☐	☐	☐
Is the stormwater BMP working as originally intended, designed, and constructed/installed?	☐	☐	☐

Stormwater BMP Type: _____

Year Constructed/Installed: _____ Total Impervious Area Treated by Stormwater BMP (s.f.): _____

General Condition:	Yes	No	N/A
Is the primary outfall pipe/ditch clear and functioning?	☐	☐	☐
Are the inflow pipes/ditches clear and functioning?	☐	☐	☐
Are water quality pool control weirs, pipes, etc. working properly?	☐	☐	☐
Is the water quality pool at the correct height (if present)?	☐	☐	☐
Are water quality pool control weirs, pipes, etc. working properly?	☐	☐	☐
Are emergency overflow devices clear and functional (if present)?	☐	☐	☐
Is the stormwater BMP clear of sediment (with proper sediment disposal)?	☐	☐	☐
Is vegetation being managed in a manner appropriate to the facility, as designed?	☐	☐	☐
Is the stormwater BMP working as originally intended, designed, and constructed/installed?	☐	☐	☐

Stormwater BMP Type: _____

Year Constructed/Installed: _____ Total Impervious Area Treated by Stormwater BMP (s.f.): _____

General Condition:	Yes	No	N/A
Is the primary outfall pipe/ditch clear and functioning?	☐	☐	☐
Are the inflow pipes/ditches clear and functioning?	☐	☐	☐
Are water quality pool control weirs, pipes, etc. working properly?	☐	☐	☐
Is the water quality pool at the correct height (if present)?	☐	☐	☐
Are water quality pool control weirs, pipes, etc. working properly?	☐	☐	☐
Are emergency overflow devices clear and functional (if present)?	☐	☐	☐
Is the stormwater BMP clear of sediment (with proper sediment disposal)?	☐	☐	☐
Is vegetation being managed in a manner appropriate to the facility, as designed?	☐	☐	☐
Is the stormwater BMP working as originally intended, designed, and constructed/installed?	☐	☐	☐

Stormwater BMP Type: _____

Year Constructed/Installed: _____ Total Impervious Area Treated by Stormwater BMP (s.f.): _____

General Condition:	Yes	No	N/A
Is the primary outfall pipe/ditch clear and functioning?	☐	☐	☐
Are the inflow pipes/ditches clear and functioning?	☐	☐	☐
Are water quality pool control weirs, pipes, etc. working properly?	☐	☐	☐
Is the water quality pool at the correct height (if present)?	☐	☐	☐
Are water quality pool control weirs, pipes, etc. working properly?	☐	☐	☐
Are emergency overflow devices clear and functional (if present)?	☐	☐	☐
Is the stormwater BMP clear of sediment (with proper sediment disposal)?	☐	☐	☐
Is vegetation being managed in a manner appropriate to the facility, as designed?	☐	☐	☐
Is the stormwater BMP working as originally intended, designed, and constructed/installed?	☐	☐	☐

CERTIFICATION

I, as Property Owner or Agent, hereby certify that the information contained in and attached to this Annual Self-Inspection Form is true and accurate to the best of my knowledge and that the stormwater BMP(s) for which I seek credit renewal are in good working order and functioning as originally intended, designed, and constructed. I acknowledge that no person shall modify, remove, fill, landscape or alter any stormwater BMPs, facilities, areas, drainage areas (to stormwater BMPs) or structures without the prior written approval of the Fountain Hill Stormwater Authority. I understand that false information may result in a notice of violation and/or termination of Stormwater Utility Fee credits. I also authorize Authority representatives to enter my property, with no less than twenty-four hours prior notice, to investigate or ascertain the condition of the stormwater BMPs on my property.

_____ _____

Property Owner's/Agent's Signature *Date*

APPENDIX F

Tree List – Tree Canopy Cover

Botanical Name	Common Name	Native	Drought Tolerance	Soil Drainage Tolerance	Soil Salt Tolerance	Salt Spray Tolerance	Soil pH	Pest Resistance	Shape	Mature Average Canopy Spread radius/area* (feet/square feet)	Area for Estimated Percentage Canopy Coverage of Impervious Area (square feet)	Mature Height (feet)	Growth Rate
Acer rubrum	*Red maple*	*Yes*	*Moderate*	*Extended flooding to well drained*	*Poor*	*Low*	*Acidic*	*Resistant*	*Round/oval*	*30 / 707*	*25% - 177 50% - 354 75% - 530 100% - 707*	*60-75*	*Fast*
Acer saccharum	*Sugar maple*	*Yes*	*Moderate*	*Drained to moderately well drained*	*Poor*	*Poor*	*Acidic to neutral*	*Somewhat sensitive*	*Round/oval*	*70 / 3,848*	*25% - 962 50% - 1,924 75% - 2,886 100% - 3,848*	*80-100*	*Moderate*
Aesculus x. carnea	*Red horsechesnut*	*Hybrid*	*Moderate*	*Moist to well drained*	*Low*	*Moderate*	*Acidic to alkaline*	*No serious pests*	*Upright/oval*	*35 / 962*	*25% - 241 50% - 481 75% - 722 100% - 962*	*60-80*	*Moderate*
Amelanchier arborea	*Downy serviceberry*	*Yes*	*Low*	*Moist to well drained*	*Low*	*Low*	*Acidic to neutral*	*No serious pests*	*Rounded*	*12.5 / 123*	*25% - 31 50% - 62 75% - 92 100% - 123*	*10-25*	*Slow*
Amelanchier grandifloria	*Serviceberry or juneberry*	*Hybrid*	*Low to Moderate*	*Well drained*	*Low*	*Low*	*Acidic to Neutral*	*No serious pests*	*Rounded*	*12.5 / 123*	*25% - 31 50% - 62 75% - 92 100% - 123*	*10-25*	*Moderate*
Betula nigra	*River birch*	*Yes*	*High*	*Extended flooding to moist*	*Low*	*Moderate*	*Acidic*	*No serious pests*	*Upright/Oval*	*35 / 962*	*25% - 241 50% - 481 75% - 722 100% - 962*	*40-60*	*Fast*
Carpinus caroliniana	*American hornbeam*	*Yes*	*Moderate*	*Moist to well drained*	*Low*	*Low*	*Acidic*	*No serious pests*	*Upright*	*25 / 490*	*25% - 123 50% - 245 75% - 368 100% - 490*	*20-30*	*Moderate*
Celtis occidentalis	*Eastern hackberry*	*Yes*	*Moderate*	*Occasionally wet to well drained*	*Moderate*	*Moderate*	*Acidic*	*No serious pests*	*Rounded*	*45 / 1,735*	*25% - 434 50% - 868 75% - 1,301 100% - 1,735*	*60-70*	*Fast*
Cercis canadensis	*Redbud*	*Yes*	*Moderate*	*Moist to well drained*	*Low*	*Low*	*Neutral to alkaline*	*No serious pests*	*Rounded*	*20 / 314*	*25% - 79 50% - 157 75% - 236 100% - 314*	*15-30*	*Moderate*
Crataegus crusgalli	*Thornless hawthorn*	*Yes*	*High*	*Occasionally wet to well drained*	*Moderate*	*High*	*Acidic to alkaline*	*Somewhat sensitive*	*Rounded*	*17.5 / 241*	*25% - 60 50% - 121 75% - 181 100% - 241*	*10-15*	*Moderate*
Gleditsia triacanthos	*Thornless honeylocust*	*Yes*	*High*	*Moist to well drained*	*High*	*High*	*Acidic to alkaline*	*No serious pests*	*Rounded*	*50 / 1,963*	*25% - 491 50% - 982 75% - 1,472 100% - 1,963*	*30-70*	*Fast*
Gymnocladus diocius	*Kentucky coffeetree*	*No*	*High*	*Moist to well drained*	*Moderate*	*High*	*Acidic to alkaline*	*No serious pests*	*Upright to rounded*	*55 / 2,206*	*25% - 552 50% - 1,103 75% - 1,655 100% - 2,206*	*50-70*	*Fast*

Botanical Name	Common Name	Native	Drought Tolerance	Soil Drainage Tolerance	Soil Salt Tolerance	Salt Spray Tolerance	Soil pH	Pest Resistance	Shape	Mature Average Canopy Spread radius/area* (feet/square feet)	Area for Estimated Percentage Canopy Coverage of Impervious Area (square feet)	Mature Height (feet)	Growth Rate
Liquidambar styraciflua	*Sweetgum*	*Yes*	*Moderate*	*Extended flooding, well drained*	*Low*	*Moderate*	*Acidic to slightly alkaline*	*Resistant*	*Pyramidal/oval*	*42.5 / 1,419*	*25% - 355 50% - 710 75% - 1,064 100% - 1,419*	*60-75*	*Moderate*
Liriodendron tulipifera	*Tuliptree*	*Yes*	*Low*	*Moist to well drained*	*Low*	*Low*	*Acidic to neutral*	*No serious pests*	*Pyramidal/oval*	*42.5 / 1,419*	*25% - 355 50% - 710 75% - 1,064 100% - 1,419*	*70-90*	*Fast*
Malus spp.	*Crabapple*	*No*	*High*	*Moist to well drained*	*Low*	*Low*	*Acidic to alkaline*	*Somewhat sensitive*	*Rounded*	*22.5 / 398*	*25% - 100 50% - 199 75% - 299 100% - 398*	*20-25*	*Moderate*
Nyssa sylvatica	*Blackgum*	*No*	*Low*	*Extended flooding to well drained*	*Low*	*High*	*Acidic*	*No serious pests*	*Pyramidal/oval*	*30 / 707*	*25% - 177 50% - 354 75% - 530 100% - 707*	*65 to 75*	*Slow*
Platanus occidentalis	*American sycamore*	*Yes*	*Moderate*	*Extended flooding to well drained*	*Moderate*	*Moderate*	*Acidic to alkaline*	*Sensitive*	*Pyramidal/rounded*	*62.5 / 3,068*	*25% - 767 50% - 1,534 75% - 2,301 100% - 3,068*	*75-90*	*Fast*
Quercus bicolor	*Swamp white oak*	*Yes*	*High*	*Extended flooding to well drained*	*Moderate*	*Moderate*	*Acidic to slightly alkaline*	*Resistant*	*Upright oval/rounded*	*55 / 1,590*	*25% - 398 50% - 795 75% - 1,193 100% - 1,590*	*50-70*	*Moderate*
Quercus macrocarpa	*Bur oak*	*Yes*	*High*	*Moist to well drained*	*High*	*High*	*Acidic to alkaline*	*Resistant*	*Upright oval/spreading*	*50 / 1,963*	*25% - 491 50% - 982 75% - 1,472 100% - 1,963*	*60-70*	*Slow*
Quercus palustris	*Pin oak*	*Yes*	*High*	*Moist*	*Low*	*High*	*Acidic*	*Resistant*	*Upright pyramidal/oval*	*45 / 1,590*	*25% - 398 50% - 795 75% - 1,193 100% - 1,590*	*60-80*	*Fast*
Quercus rubra	*Northern red oak*	*Yes*	*High*	*Moist to well drained*	*High*	*Low*	*Acidic to slightly alkaline*	*Resistant*	*Rounded*	*70 / 3,848*	*25% - 962 50% - 1,924 75% - 2,886 100% - 3,848*	*50-60*	*Fast*
Tilia americana	*American linden*	*Yes*	*Moderate*	*Moist to moderately well drained*	*Low*	*Low*	*Slightly acidic to alkaline*	*No serious pests*	*Rounded*	*40 / 1,257*	*25% - 314 50% - 629 75% - 943 100% - 1,257*	*50-80*	*Moderate*
Ulmus americana	*American elm*	*Yes*	*Moderate*	*Extended flooding to well drained*	*High*	*Moderate*	*Acidic to alkaline*	*Resistant*	*Vase*	*60 / 2,827*	*25% - 707 50% - 1,414 75% - 2,120 100% - 2,827*	*70-90*	*Fast*

* For purpose of determining coverage of Impervious Area by the Mature Average Canopy Spread by species for each tree planting, the canopy shape is assumed to be round

Fountain Hill Borough - Stormwater Management Program

FREQUENTLY ASKED QUESTIONS (FAQs)

1. Why do we need to manage stormwater in Fountain Hill and why am I being assessed a fee for it?

Public management of stormwater runoff is required by Federal regulations because the amount of stormwater that runs off properties commonly causes flooding, soil erosion, and excessive stream erosion, and carries pollutants from the land, all of which degrades aquatic habitats and impacts downstream waterways. Common pollutants include soils, road grit, trash/litter, nutrients, fertilizers, pesticides, oils, grease, and microplastics.

Programs for stormwater management are mandated by the Federal Clean Water Act, as amended in 1987, and have been developed by the United States Environmental Protection Agency (USEPA) and the Pennsylvania Department of Environmental Protection (PA DEP). Compliance for municipalities with Urbanized Areas, such as the land within Fountain Hill Borough, is mandated by these agencies under a special permit. This permit is known as Municipal Separate Storm Sewer System (MS4) Permit and allows the stormwater runoff from the public stormwater drainage system to discharge into local natural waterways. A requirement of this permit is that stormwater is managed for volume and quality such that it does not impact or impair the receiving waterways.

A stormwater fee is a charge for service related to the mandated compliance (by the Borough) with Federal regulations. The fee provides the primary revenue to support the Borough's stormwater management program.

The stormwater fee revenue is dedicated for use in the Borough's stormwater management program and may not be used for any other purposes.

Historically, local governments' use of service fees for primary program funding began in the early 1970s, and thousands of communities across the United States have adopted similar funding mechanisms to best meet public needs. Fountain Hill's stormwater fee is dedicated to provide revenue to support the Borough's stormwater management program, which includes:

a. operating and maintaining the stormwater drainage system;

b. repairing ailing storm sewer infrastructure;

c. implementing new capital projects for protection and treatment of stormwater runoff;

d. providing public education about stormwater runoff and its impacts; and

e. improving regulations related to stormwater management requirements.

2. What is meant by the terms “stormwater” and “impervious” and why are they so important?

Stormwater is the water associated with rainfall and snow melt. Generally speaking, stormwater either soaks into the ground or runs across the land surface to natural waterways and wetlands, noting that a small portion evaporates back into the atmosphere. In natural areas, most stormwater soaks into the ground. In developed settings, most stormwater runoffs off of the land, flowing across impervious surfaces such as rooftops, driveways, sidewalks, and roads and through a system of channels and pipes, with eventual discharge into natural waterways such as streams, rivers, lakes, ponds, and wetlands.

Within the Borough, most stormwater discharges into piped streams running alongside and beneath our roads, and eventually discharges into the Lehigh River.

The inlet grates in the Borough’s streets are openings to the underground pipe network. Some rainfall and snowmelt water is absorbed into the ground, and over a long period of time, enters the groundwater table. Some stormwater evaporates and is also absorbed by plants, such as grass and trees, which use the water to grow.

Impervious area refers to hardened surfaces that shed water on developed property, such as buildings, sidewalks, paved driveways, garages, patios, tennis courts, basketball courts, and other such features. Impervious areas cause rainwater and snowmelt water to run off the land surface rather than infiltrate naturally into the ground.

Impervious surfaces change the volume (quantity) and velocity (speed) of the stormwater runoff, and often the quality due to soil erosion and transport of other land-borne pollutants. This creates the need for a public drainage system that can carry the runoff safely away from the properties and treat the water off-site for both the increases in quantity and quality prior to discharging “clean” stormwater into our waterways. Wherever possible, these public systems should also infiltrate clean stormwater into the ground to increase groundwater supplies and decrease stream impacts and flooding.

Gravel and stone surfaces are only considered to be impervious when they are installed over submaterial that cannot adsorb water (e.g., compacted clay soil, landscape barriers, etc.). The determination for gravel and stone surfaces to be impervious will be evaluated by the Borough on a case-by-case basis, and in most cases will not be considered impervious, assuming that reasonable infiltration of water is apparent.

3. Who is being charged this Stormwater Utility Fee?

All properties in the Borough with impervious surface coverage are required to pay the fee, with exception of the impervious areas in public roadways (Borough and PennDOT) and railway ballast (tracks), noting that the Borough’s roads are funded by residents/landowners, PennDOT has similar MS4 Program requirements for state roads, and railroad ballast allows infiltration beneath its footprint. Therefore, all land within the Borough is engaged in proper stormwater management. This approach has several advantages. First, it fairly distributes the cost of the Borough’s stormwater services to all properties with impervious area. This concept is similar to measuring usage and calculating fees, respectively, for actual use of drinking water and sanitary sewer services. Second, the amount of the fee must be linked to the

services required, and revenue is deposited into a special fund that can only be used for stormwater management within the Borough. Finally, the approach allows the Borough to provide "credits" to property owners who have implemented practices on their own properties that contribute to meeting the required mandates for managing stormwater (e.g., reducing pollution and reducing quantity of runoff).

The stormwater fee is not a tax; it is a service fee. All developed properties in the Borough are charged the fee on the same basis, including tax exempt properties. The fee is based on the presence and amount of impervious area, as measured in 500 square feet units for which a (current) base fee of $20 per unit is charged. All properties with impervious areas generate stormwater runoff which must be safely conveyed and treated, and therefore the cost burden should be shared in a fair and equitable manner by all associated landowners.

4. Doesn't the Borough already tax my property and/or my income for stormwater programs? Why is the current level of funding not adequate and how is this different than my water/sewer bill?

In the past, the Borough has used general revenues to pay for stormwater services, which were very limited prior to recent regulations. The MS4 Permit that the Borough is now required to have under Federal regulations, requires the Borough to improve old stormwater infrastructure, construct new stormwater infrastructure, increase management activities, conduct regular inspections of stormwater facilities, provide educational components, monitor and report results regularly to the PA DEP, and comply with other requirements of the MS4 program.

The prior funding through general revenues is not sufficient to address the increased costs of the new MS4 Permit requirements. Therefore, the Borough Council adopted a stormwater fee approach to ensure dedication of funds for stormwater management and to avoid a tax increase.

The Borough's stormwater system is a completely separate system from the drinking water distribution and wastewater collection systems. Drinking water is treated and provided through distribution pipes to faucets and other use points (e.g., bathroom, kitchen, and laundry appliances, etc.).

Wastewater is water that discharges from your home or business after being used for washing, cooking, etc., and is collected by a series of pipes that lead to the sewage treatment plant, from which clean water is then discharged to the Lehigh River.

Stormwater runoff is generated by rainfall and snow melt events. It travels over impervious surfaces, along roads (e.g., curb and butter, swales, ditches, pipes, etc.), into stormwater basins/treatment facilities, and ultimately discharges into nearby natural waterways. Stormwater management infrastructure must be constructed in conjunction with land development (i.e., homes, business, roads, etc.) to accommodate the increases in runoff and to treat runoff water quality in order to protect our natural waterways and all of the benefits they provide, such as fishing, swimming, boating, drinking water, etc.

Operation, maintenance, upgrade, and replacement of the drinking water and wastewater systems are managed by Bethlehem Authority and Borough, respectively. Fees are charged based on meter measurements of the amounts of drinking water used by properties and corresponding estimates of

wastewater flows that are then generated. These fees are not based on the actual cost of service to get drinking water and wastewater to and/or from any specific property.

Stormwater services are not paid for by drinking water and wastewater fee revenue. The Borough's stormwater services are provided through the Borough's Public Works Department. The only "meter" for stormwater is the amount of impervious area on each parcel, and therefore is the basis for determining the stormwater fee amount for each parcel.

5. How much is the fee? How is it calculated? Who calculated it?

The impervious surface coverage on a property serves as the "meter" for determining costs for stormwater management services. Stormwater runoff from impervious surfaces (development on properties) creates the need for a publicly operated drainage network to safely convey and treat stormwater prior to discharge into our natural waterways. Stormwater runoff is common to all properties regardless of use (e.g., business, religious, school, government, industry, residential, or other).

The stormwater management fee structure is not an attempt to measure the volume of stormwater runoff from each and every parcel within the Borough, which would be extremely costly and technically challenging to implement. Rather, it is a fair and equitable means for fee determination based on the total amount of impervious coverage on each property, all of which coverage generates similar amounts of stormwater runoff.

Currently, as needed to meet projected program requirements, the annual stormwater fee is $20 per 500 square feet of impervious area on a given property. Impervious area is determined through review and calculations using high resolution aerial photography. Rates are set by the Borough's Stormwater Authority and will be reviewed and adjusted from time to time to meet changing needs of the MS4 Program requirements.

Two example fee calculations are presented below.

<u>Example #1 – Typical Residential Property</u>

a. Residential property with 900 square feet of rooftop and 300 square feet of asphalt driveway = 1,200 square feet of total impervious area
b. 1,200 square feet divided by 500 square feet per "base unit" = 2.4 base units
c. 2.4 base units times $20 per base unit = $48 Total Stormwater Fee

<u>Example #2 – Typical Commercial Property</u>

a. Commercial property with 1,400 square feet of rooftop and 4,000 square feet of asphalt parking area = 5,400 square feet of total impervious area
b. 5,400 square feet divided by 500 square feet per "base unit" = 10.8 base units
c. 10.8 base units times $20 per base unit = $216 Total Stormwater Fee

See Fountain Hill Borough Resolution 19-02 for additional information about fees and fee calculation. Also, see the Stormwater Management Program Credit Policies and Procedures Manual for information about qualifying and applying for credit against your stormwater fee.

6. Is there any way I can reduce my stormwater fee amount, or can the fee be waived?

The fee cannot be waived, but it can be reduced. Every effort has been made to make this fee as fair and equitable as possible so that all properties contributing to the need for a publicly owned and operated stormwater system share the costs. Fees can be reduced for landowners that install, operate, and properly maintain qualifying stormwater Best Management Practices on their own properties, in full compliance with the Borough's Stormwater Management Program Credit Policies and Procedures Manual.

Property owners that manage their own stormwater runoff on their properties using qualifying stormwater Best Management Practices (BMPs), as detailed in the Borough's Credit Policies and Procedures Manual, may reduce their fee by up to 50%. The remaining 50% is used by the Borough to cover costs for stormwater infrastructure on public lands and roads, as well as other items for compliance with the Borough's MS4 Permit, as required by State and Federal regulations. See the Borough's Credit Policies and Procedures Manual for more information about how to qualify and apply for a potential reduction in your stormwater fee, as well as examples for credit calculations.

7. Can I get credit for existing stormwater management facilities on my property applied to this first year's billing?

Yes. However, due to the timing of fee implementation and collection, the Borough does not have sufficient time to receive, review, and approve credit applications before fees are due. Therefore, property owners who file a credit application during 2020 for existing, qualifying stormwater management controls on their own properties, if approved, will receive credit applied to their 2021 stormwater fee billing. This would be in addition to approved credit against the regular 2021 stormwater utility fee billing. See the Credit Policies and Procedures Manual for additional information about applying for stormwater utility fee credit.

8. What activities will be funded by the fee? Who makes these decisions?

The initial stormwater fee is based upon a 5-year plan, consistent with meeting the regulatory requirements of the current 5-year MS4 Permit issued to the Borough as a result of State and Federal regulations. MS4 Permit requirements include:

a. Capital projects for stormwater management improvements;

b. Engineering studies, designs, and permitting related to stormwater management;

c. Stormwater Management BMP inspection and tracking;

d. Operation and Maintenance activities for the Borough's stormwater facilities;

e. Stormwater systems mapping and conditions assessments;

f. System replacement (pipes, inlets, swales, curbing, etc.);

g. Equipment needed for stormwater management activities (Street Sweeper, Vacuum Truck, etc.);

h. Emergency stormwater infrastructure materials for repairs and replacements; and

i. Compliance with current and new requirements of the MS4 Program.

Existing stormwater-related services traditionally performed by the Borough, such as street sweeping, leaf collection, and land development plan review, will continue to be funded by the General Fund, and not the Stormwater Management Program fees.

9. I think the number of billing units shown on my bill is wrong. What can I do?

The Borough has established a formal appeal process, administered by the Fountain Hill Stormwater Authority Appeals Board and Zoning Office. You may obtain a copy of the appeal application and instructions at http://www.fountainhill.org/ms4, or you may contact the Zoning Office at 610.867.0301 to request a copy of the appeal application and instructions. Appeal applications must be received by the Borough within 30 days of the postmarked date that the bill was mailed to you.

10. Where can I get more information about the Stormwater Fee, Stormwater Management Program, and Credit Policies and Procedures Manual?

You can find more information about the Stormwater Fee, Stormwater Management Program, and Credit Policies and Procedures Manual on the Borough's website at http://www.fountainhill.org/ms4.

11. How can I report a stormwater issue (flooding, dumping, water quality concern, accidental spill, etc.) in my neighborhood?

To report a stormwater-related issue or to get more information on stormwater facilities in your neighborhood, please contact Borough Hall at 610.867.0301.

It's a thrill to live on the hill!

BOROUGH OF FOUNTAIN HILL

941 Long St, Fountain Hill, PA 18015 | 610-867-0301

CALENDAR

MS4 Annual Status Reports

2020-2021-MS4_Status_Report_FINAL-09.29.2021 Download

Fountain Hill Borough

941 Long St
Fountain Hill, PA 18015
(610) 867-0301

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CALENDAR

Financials

- 2021 Budget as Approved by the Board on November 11, 2020
- 2022 Budget as Approved by the Board in December 2021
- Financial Statement and Independent Auditor Report December 31, 2021

Fountain Hill Borough

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Fountain Hill Stormwater Authority
Budget 2021
January through December 2021

	Jan - Dec 21	
Income		
383 Special Assessments		
383.10 Stormwater Fee	195,621.00	
Total 383 Special Assessments		195,621.00
398 Appropriation from Prev. Yr		20,851.00
Total Income		216,472.00
Expense		
400 General Government		
400.34 Advertising	500.00	
Total 400 General Government		500.00
402 Administration		
402.21 Office Supplies	300.00	
402.24 Bank Service Charge	100.00	
402.324 Postage	1,305.00	
402.75 Data/Computerization	300.00	
Total 402 Administration		2,005.00
404 Solicitor/Legal		
404.311 Professional Services	8,000.00	
Total 404 Solicitor/Legal		8,000.00
406 Other General Govmt. Admin		
406.14 Salaries & Wages	5,530.00	
406.150 ER's Contrib to EE Ben.	2,572.00	
406.311 Auditor	5,000.00	
406.47 MS Permit	500.00	
Total 406 Other General Govmt. Admin		13,602.00
408 Engineering Services		
408.302 MS4 Project	12,500.00	
408.311 Professional Serv	1,000.00	
408.312 Special Engineering Ser	110,000.00	
Total 408 Engineering Services		123,500.00
446 Storm Water Management		
446.15 PW Wages - ER Benefits	2,161.00	
446.18 Stormwater PW Wages	31,171.00	
446.22 Mach.& Equipm. Charges	35,533.00	
Total 446 Storm Water Management		68,865.00

Fountain Hill Stormwater Authority
Budget 2021
January through December 2021

	Jan - Dec 21
Total Expense	216,472.00
Net Income	0.00

FOUNTAIN HILL STORMWATER AUTHORITY

PROPOSED BUDGET 2022

FH Stormwater Authority - Capital Expenditures - Budget 2022

Anticipated Expenditures	YEAR	2021	2022	2023	2024		Notes
Warren Street Basin (retention) - Design and Permitting			14,500.00			50% reduction - HanEng plus add'l costs for storm sewers alongside warren st halfway	confirmed by Han Eng 9.24.2021
Warren Street Basin - Construction			45,000.00	-		50% reduction - HanEng plus add'l costs for storm sewers alongside warren st halfway	confirmed by Han Eng 9.24.2021
Warren Street Basin - Maintenance/Inspection		-	-		3,250.00	beginning in 2023	
Dodson Street Basin - Design and Permitting			18,500.00	12,500.00		boro park - 25% reduction	postponed to 2023 and dependen on pool survey results
Dodson Street Basin - Construction		-	-	150,000.00		potentially adding a retaini	easement or lease Boro/FHSWA
Dodson Street Basin - Maintenance/Inspection		-	-	-			postponed to 2023 and dependen on pool survey results
Craig Street Basin - Design and Permitting		-		21,600.00		25% reduction - paper street	postponed to 2023
Craig Street Basin - Construction		-		72,500.00		might change	postponed to 2023
Crraig Street Basin - Maintenance/Inspection		-	-		4,000.00		
		-	-				
Stanley Ave Grass Alley Conv Storm Sewer Improvement			34,700.00			in conjunction with Stanley Ave Grass Alley Conv (funded thru LC Conservation District)	
Stanley Ave Grass Alley Sewer Improvem. - Engineeing & Inspection			5,205.00				
		-	**117,905.00**	**256,600.00**	**7,250.00**		

Fountain Hill Stormwater Authority - Proposed Budget 2022

	Actual Jan - Dec 2020	Actual Jan - Oct 2021	Budget 2021	$ Over/(Under) Budget	Budget 2022	Notes
Income						
341.00 Interest	26.00	22.61			50.00	
383 Special Assessments						
383.10 Stormwater Fee	203,504.47	231,287.30	195,621.00	35,666.30	225,083.00	92% collection rate curr. & 97% on prev
Total 383 Special Assessments	203,504.47	231,287.30	195,621.00	35,666.30	225,083.00	
398 Appropriation from Prev. Yr		0.00	20,851.00	-20,851.00		
Total Income	203,530.47	231,309.91	216,472.00	14,837.91	225,133.00	
Expense						
400 General Government						
400.34 Advertising	273.67	0.00	500.00	-500.00	500.00	
Total 400 General Government	273.67	0.00	500.00	-500.00	500.00	
402 Administration						
402.21 Office Supplies	457.56	331.81	300.00	31.81	500.00	
402.24 Bank Service Charge	44.45	20.68	100.00	-79.32	100.00	
402.324 Postage	783.94	1,172.10	1,305.00	-132.90	1,400.00	
402.42 Dues/Subscriptions	0.00	285.30			300.00	PA Mun Author.
402.75 Data/Computerization	1,236.00	1,207.35	300.00	907.35	300.00	incr in 2021 b/c 1/4 of Server Purch
Total 402 Administration	2,521.95	3,017.24	2,005.00	1,012.24	2,600.00	
404 Solicitor/Legal						
404.311 Professional Services	3,445.00	805.00	8,000.00	-7,195.00	4,000.00	
Total 404 Solicitor/Legal	3,445.00	805.00	8,000.00	-7,195.00	4,000.00	
406 Other General Govmt. Admin						
406.14 Salaries & Wages	8,816.42	3,090.64	5,530.00	-2,439.36	5,530.00	
406.150 ER's Contrib to EE Ben.	2,688.76	803.35	2,572.00	-1,768.65	2,572.00	
406.311 Auditor	0.00	6,075.00	5,000.00	1,075.00	6,100.00	
406.47 MS Permit	500.00	500.00	500.00	0.00	500.00	
Total 406 Other General Govmt. Admin	12,005.18	10,468.99	13,602.00	-3,133.01	14,702.00	
408 Engineering Services						
408.302 MS4 Project	37,080.05	4,155.25	12,500.00	-8,344.75	12,500.00	per environ. HEA for annual report; permit expires 2023
408.311 Professional Serv	7,114.62	4,041.72	1,000.00	3,041.72	1,000.00	same as 2021
408.312 Special Engineering Ser	221.50	5,240.10	110,000.00	-104,759.90	38,205.00	Warren St, Dodson St Basin, Stanley Ave Grass Alley Conv. Sewer Improvement
Total 408 Engineering Services	44,416.17	13,437.07	123,500.00	-110,062.93	51,705.00	
446 Storm Water Management						
446.15 PW Wages - ER Benefits	0.00	3,375.53	2,161.00	1,214.53	4,125.00	
446.18 Stormwater PW Wages	0.00	7,997.92	31,171.00	-23,173.08	10,000.00	
446.22 Mach.& Equipm. Charges		100.00	35,533.00	-35,433.00	1,000.00	
446.67 Capital Constr. -Storm Sewer					79,700.00	Warren St Basin, Stanley Ave Grass Alley Conv Storm Sewer Improvement
Total 446 Storm Water Management	0.00	11,473.45	68,865.00	-57,391.55	94,825.00	
Total Expense	62,661.97	39,201.75	216,472.00	-177,270.25	168,332.00	
Net Income	**140,868.50**	**192,108.16**	**0.00**	**192,108.16**	**56,801.00**	

Capital Project - American Rescue Plan Act (ARPA)

Capital Projects - Stormwater Authority (ARPA Funded)

Anticipated Expenditures	**YEAR**	**2022**	**2023**	**2024**	**2025**	**Notes**
Hoffert St Storm Sewer Extension		46,687.50				
Broadway Curb & Sidewalk - Storm Sewer Improvements		90,804.00				in conjunction w. MTF Grant 2019 Broadway Curb & Sidewalk
		137,491.50	-	-	-	

Capital Project Fund (ARPA) - Proposed Budget 2022

	Actual Jan - Dec 2021	Budget 2022	Notes
Ordinary Income/Expense			
Income			
340. Interest, Rents & Royaltie			
341.00 Interest Earnings	25.90	150.00	
Total 340. Interest, Rents & Royaltie	**25.90**	**150.00**	
350 Intergovernment Revenue			
351.12 ARPA	245,920.31	245,920.31	2nd tranche of ARPA
Total 350 Intergovernment Revenue	**245,920.31**	**245,920.31**	
Total Income	**245,946.21**	**246,070.31**	
Expense			
446 Capital Constr. Storm Sewer			
446.671 Storm Sewer Broadway	-	90,804.00	Storm Sewer improvements in conjunction with Broadway Curb & Sidewalk Replacement
436.672 Storm Sewer Hoffert St	-	46,687.00	Hoffert ST Storm Sewer Extension
Total 446 Cap Constru. Storm Sewer	-	**137,491.00**	
Total Expense	-	**137,491.00**	
Net Ordinary Income	**245,946.21**	**108,579.31**	
Net Income	**245,946.21**	**108,579.31**	

FOUNTAIN HILL STORMWATER AUTHORITY

Financial Statements and
Independent Auditor's Report

December 31, 2021

CAMPBELL, RAPPOLD & YURASITS LLP
Certified Public Accountants
1033 South Cedar Crest Boulevard Allentown, PA 18103

FOUNTAIN HILL STORMWATER AUTHORITY
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INDEPENDENT AUDITOR'S REPORT

To the Members of the Authority Board
Fountain Hill Stormwater Authority
Fountain Hill, PA

Opinion

We have audited the accompanying modified cash basis financial statements of the business-type activities of Fountain Hill Stormwater Authority, as of and for the year ended December 31, 2021, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the modified cash basis financial position of the business-type activities of Fountain Hill Stormwater Authority as of December 31, 2021, and the respective changes in modified cash basis financial position thereof for the year then ended in accordance with the modified cash basis of accounting described in Note 2.

Basis for Opinion

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (GAAS) and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of Fountain Hill Stormwater Authority and to meet our other ethical responsibilities in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Basis of Accounting

We draw attention to Note 2 of the financial statements, which describes the basis of accounting. The financial statements are prepared on the modified cash basis of accounting, which is a basis of accounting other than accounting principles generally accepted in the United States of America. Our opinion is not modified with respect to this matter.

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Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with the modified cash basis of accounting described in Note 2, and for determining that the modified cash basis of accounting is an acceptable basis for the preparation of the financial statements in the circumstances. Management is also responsible for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAP will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements, including omissions, are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of Fountain Hill Stormwater Authority's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about Fountain Hill Stormwater Authority's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Other Matters

Required Supplementary Information

Management has omitted the management's discussion and analysis that is required to be presented to supplement the basic financial statements. Such missing information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. Our opinion on the basic financial statements is not affected by this missing information.

Other Reporting Required by *Government Auditing Standards*

In accordance with *Government Auditing Standards*, we have also issued our report dated June 30, 2022 on our consideration of the Fountain Hill Stormwater Authority's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of Fountain Hill Stormwater Authority's internal control over financial reporting or on compliance.

That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering Fountain Hill Stormwater Authority's internal control over financial reporting and compliance.

Campbell, Reppold & Yurasits LLP

June 30, 2022

FOUNTAIN HILL STORMWATER AUTHORITY
STATEMENT OF NET POSITION – MODIFIED CASH BASIS
December 31, 2021

	December 31, 2021
ASSETS	
Cash and Cash Equivalents	$ 288,980
Due From Other Governments	1,367
Total Assets	$ 290,347
LIABILITIES AND NET POSITION	
-NONE-	$ -
Total Liabilities	-
NET POSITION	
Unrestricted	290,347
Total Net Position	290,347
Total Liabilities and Net Position	$ 290,347

See independent auditor's report and notes to the financial statements.

FOUNTAIN HILL STORMWATER AUTHORITY
STATEMENT OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION – MODIFIED CASH BASIS
For the Year Ended December 31, 2021

	For the Year Ended December 31, 2021
OPERATING REVENUES	
Charges for Services	
Stormwater Fees	$ 233,408
Total Operating Revenues	233,408
OPERATING EXPENSES	
Wages and Payroll Taxes	12,072
Benefits	4,446
Bank Fees	23
Dues and Subscriptions	325
Office Supplies	332
Postage	1,259
Equipment Repairs	100
Permits	500
Accounting	6,075
Software	1,207
Engineering	10,899
Legal	1,105
MS4 Project Services	5,323
Total Operating Expenses	43,666
Operating Income	189,742
NONOPERATING REVENUES (EXPENSES)	
Interest Income	28
Total Nonoperating Revenues (Expenses)	28
NET INCOME	189,770
NET POSITION - Beginning of Year	100,577
NET POSITION - End of Year	$ 290,347

See independent auditor's report and notes to the financial statements.

1. Entity

Form of Entity

Fountain Hill Stormwater Authority ("Authority") was incorporated October 23, 2019, under the Municipal Authorities Act of 1945 as amended, under the laws of the Commonwealth of Pennsylvania and the Borough of Fountain Hill, and is located in Lehigh County, Pennsylvania. The Authority is governed by a five-member Board of Directors that are appointed by the Borough of Fountain Hill's Borough Council. The Authority, by virtue of its Articles of Incorporation and of the Municipal Act, existence shall terminate fifty years from the date of filing, unless extended by an amendment to the Articles of Incorporation.

Fountain Hill Stormwater Authority is exempt from income tax under Section 115 of the Internal Revenue Code.

Nature of Operations and Markets

The Borough of Fountain Hill conveyed, in consideration of the sum of one dollar, via a quit claim deed, to Fountain Hill Stormwater Authority, a stormwater system, consisting of rights title and interests in permanent stormwater easements and rights-of-ways, including stormwater facilities and improvements located within said easements and right-of-ways and stormwater facilities located within public streets owned by the Borough, including, but not limited to inlets, manholes, detention, retention facilities, basins, main pipes, outfall lines, drainage swales, drainage channels, and other appurtenances.

2. Summary of Significant Accounting Policies

Significant accounting policies followed by Fountain Hill Stormwater Authority are described below to enhance the usefulness of the financial statements to the reader.

Description of Financial Reporting Entity

The financial statements of the Authority have been prepared in accordance with the modified cash basis of accounting, which is a basis of accounting other than accounting principles generally accepted in the United States of America (GAAP) and is described more fully under Basis of Accounting.

The financial statements of Fountain Hill Stormwater Authority include the financial activities of the Authority which provides water and sewer services to the residents of the Borough of Fountain Hill. There are no component units included in Fountain Hill Stormwater Authority's financial statements. The Authority is included in the Borough of Fountain Hill's ("Borough") financial statements.

2. Summary of Significant Accounting Policies (Continued)

Basis of Accounting

The accompanying financial statements of the Fountain Hill Stormwater Authority have been prepared in accordance with the modified cash basis of accounting, which is a basis of accounting other than accounting principles generally accepted in the United States of America (GAAP). The modified cash basis differs from GAAP in that certain revenues and the related assets are recognized when received rather than when earned and certain expenditures or expenses are recognized when paid rather than when a liability is incurred. Modifications to the cash basis of accounting include: the recording of payroll withholdings when withheld from employees' pay. The Governmental Accounting Standards Board (GASB) is the authoritative standard-setting body for the establishment of governmental accounting and financial reporting principles. The more significant of these accounting policies are described below to enhance the usefulness of the financial statements to the reader. Net position of the Authority is classified and reported as follows:

- Unrestricted – amounts that are available for any purpose.

Basic Financial Statements

Since the Authority is only engaged in business-type activities, it is required to present only the financial statements required for enterprise funds. For the Authority, the basic financial statements consist of the following:

- Enterprise fund financial statements
  - Statement of Net Position
  - Statement of Revenues, Expenses, and Changes in Net Position
  - Notes to Financial Statements

Enterprise funds distinguish operating revenues and expenses from non-operating items. Operating revenues and expenses generally result from providing services and producing and delivering goods. The principal operating revenue of the Authority is the charge of fees for water and sewer consumption in the service area of the Authority. Operating expenses include the cost of sales and services and administrative expenses. Revenues and expenses not meeting this definition are reported as non-operating revenues and expenses.

Management Estimates

The preparation of financial statements prepared with the modified cash basis of accounting require management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Cash and Cash Equivalents

The Authority's cash and cash equivalents are comprised of cash on hand, demand deposits with financial institutions, and short-term investments with original maturities of three months or less as of the date of acquisition.

3. Non-GAAP Budgetary Basis of Accounting

The Authority's budget is prepared on the modified cash basis of accounting and includes appropriations to cover anticipated current encumbrances. The Authority Board approves budgets, which contain estimated revenues adequate to fully fund appropriations. Appropriations not reserved for encumbrances lapse at year end. Formal budgetary integration is employed as a management control device during the year.

4. Cash and Cash Equivalents

General

Pennsylvania statutes provide for investment of governmental funds into certain authorized investment types including U.S. Treasury bills, other short-term U.S. and Commonwealth of Pennsylvania government obligations, and insured or collateralized time deposits and certificates of deposit. The statutes do not prescribe regulations related to demand deposits; however, they do allow the pooling of governmental funds for investment purposes.

The deposit and investment policy of the Authority adheres to the statutes of the Commonwealth. Deposits of the Authority are either maintained in demand deposits or are held in bank money market accounts. There were no deposit or investment transactions during the year that were in violation of either the Commonwealth's statutes or the policy of the Authority.

Cash (Cash on Hand and Bank Balances)

The Authority maintains cash balances which may exceed federally insured limits though it has historically not experienced any credit related losses. Any uninsured bank balances are collateralized, as described below.

Under Act No. 72 of the 1972 Session of the Pennsylvania General Assembly (the "Act of 72"), financial institutions were granted the authority to secure the deposits of the public bodies by pledging a pool of assets, as defined in the Act of 72, to cover all public funds deposited in excess of the FDIC limits. The uninsured bank balances (as defined by Statement No. 3 of the GASB) of the Authority in the amount of $38,980 were collateralized by this pool of assets maintained by the Authority's depository institutions.

5. Management Agreement

The Authority and the Borough of Fountain Hill executed a management agreement, dated December 2, 2019, for the Borough to provide general management services for the stormwater system. The Authority incurred expenses of $16,518 for the use of the Borough's employees for the year ended December 31, 2021.

6. Subsequent Events

In preparing these financial statements, the Authority has evaluated events and transactions for potential recognition or disclosure through June 30, 2022, the date the financial statements were available to be issued.

OTHER SUPPLEMENTARY INFORMATION

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INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH *GOVERNMENT AUDITING STANDARDS*

To the Board of Directors
Fountain Hill Stormwater Authority
Bath, PA

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the business-type activities of Fountain Hill Stormwater Authority as of and for the year ended December 31, 2021, and the related notes to the financial statements, which collectively comprise Fountain Hill Stormwater Authority's basic financial statements, and have issued our report thereon dated June 30, 2022.

Report on Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered Fountain Hill Stormwater Authority's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of Fountain Hill Stormwater Authority's internal control. Accordingly, we do not express an opinion on the effectiveness of the Fountain Hill Stormwater Authority's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected, on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

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Report on Compliance and Other Matters

As part of obtaining reasonable assurance about whether Fountain Hill Stormwater Authority's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the financial statements. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

Campbell, Reppold & Yuasita LLP

June 30, 2022

It's a thrill to live on the hill!

BOROUGH OF FOUNTAIN HILL

941 Long St, Fountain Hill, PA 18015 | 610-867-0301

CALENDAR

Authority Board

Board Member	Role	Term Ends
Stewart McCandless	Chairperson	1/1/2024
Andrew Boyer	Vice-Chair	1/1/2025
Annamarie Jordan	Board Member	1/1/2025
Thomas Lansek	Board Member	1/1/2024
Philip Trabel	Board Member	1/1/2025

Fountain Hill Borough

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BOROUGH OF FOUNTAIN HILL

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Stormwater Authority Meeting Minutes & Agendas

Minutes

- Stormwater Authority Meeting Minutes – March 9th, 2022

Agendas

- Stormwater Authority Meeting Agenda – September 14th, 2022
- Stormwater Authority Meeting Agenda – April 13th, 2022
- Stormwater Authority Meeting Agenda – March 9th, 2022

Archived Minutes & Agendas

Minutes

- 2021
- 2020
- 2019

Agendas

- 2021
- 2020

Fountain Hill Borough

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CALENDAR

Storm Water Management FAQ

Why do we need to manage stormwater in Fountain Hill and why am I being assessed a fee for it?

What is meant by the terms "stormwater" and "impervious" and why are they so important?

Doesn't the Borough already tax my property and/or my income for stormwater programs? Why is the current level of funding not adequate and how is this different than my water/sewer bill?

How much is the fee and how and who calculated it?

Is there any way I can reduce my stormwater fee amount/can the fee be waived?

Who is being charged this fee?

What activities will be funded by the fee? Who makes these decisions?

I think the number of billing units shown on my bill is wrong. What can I do?

Where can I get more information about the Stormwater Fee, Stormwater Management Program, and Credit Policies and Procedures Manual?

How can I report a stormwater issue (flooding, dumping, water quality concern, accidental spill, etc.) in my neighborhood?

What do I do if my bill was addressed to the wrong name?

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BOROUGH OF FOUNTAIN HILL

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MS 4 Storm Water Management

We ask that all residents of Fountain Hill planting trees on your property notify the Borough Office at (610) 867-0301. The MS4 (Municipal Separate Sewer Storm System) requirement for the Borough has established a required allocation of trees planted. Your cooperation will assist the Borough in meeting these requirements.



This letter is being provided to inform residents and landowners of a new annual fee that will be assessed to each developed property in the Borough to cover costs associated with stormwater management required by federal regulations to restore and protect local waterways.

The fee will be based on the amount of impervious cover (e.g., rooftops, paved driveways, and other hard surfaces) which generates stormwater on your property that is then discharged into municipal stormwater facilities. Further, residents and landowners that effectively control stormwater on their own properties using approved, acceptable Best Management Practices (BMPs) such as rain gardens, rain barrels, drywells, and other qualifying controls, may be eligible for partial credit against their assessed fees.

To provide a brief history leading to this new fee: in 1972, the Clean Water Act was signed into law. Since then, there have been many amendments to the Act, such as the National Pollutant Discharge Elimination System (NPDES) which is administered by the United States Environmental Protection Agency (EPA) and regulates the discharge of stormwater and pollutants into waterways. Phase I of the NDPES Program regulated "point source" discharges into streams, lakes, and other waterbodies. Phase II of the NDPES Program regulates "non-point source" discharges that originate from undefined or poorly defined sources, such as stormwater runoff from roads.

Almost 1,000 jurisdictions and Municipal governments in the State of Pennsylvania, including the Borough of Fountain Hill and most Lehigh Valley townships and boroughs, contain population densities that are classified as "Urbanized Areas" by the US Census Bureau. Urbanized Areas (UAs) generally contain a significant amount of development which ultimately produces large amounts of stormwater runoff. As such, UAs determine which municipalities are required to comply with the Phase II NPDES Program for management of stormwater discharges from municipal-owned roads, parks, and other facilities which impact local waterways. These requirements are known as the Municipal Separate Storm Sewer Systems (MS4) regulations, which are administered through the Pennsylvania Department of Environmental Protection (PADEP) through five-year permits meeting the federal requirements.

MS4 permit requirements for Fountain Hill began in 2003 and have continued to increase in scope with each successive five-year permit term. The current permit requires the Borough to reduce sediment loads carried by stormwater generated from within the Borough by 10% by the end of the permit term in 2023. Based on a professionally developed Pollutant Reduction Plan (PRP), the Borough must implement numerous, costly stormwater BMPs to meet this goal. The proposed annual fee to cover these and other MS4-related costs will be assessed to landowners within the Borough, based on their respective amounts of impervious cover. This method has been determined as the most fair and equitable means for assessing such a fee.

Click here for the Reduction Pollution Plan

The Homeowners Guide to Stormwater BMP maintenance can be found here. What you need to take care of your property.

Click here for Fountain Hill Storm Water Plan.

Every parcel of land in the **Chesapeake watershed** impacts the quality of the Chesapeake Bay!

http://chesapeakestormwater.net/wp-content/uploads/downloads/2013/07/CSN-Homeowner-Guide_062713.pdf



Good-Housekeeping-Practices-for...-Auto-Maintenance Download

When-you-are-fertilizing-the-lawn Download

When-Your-Pet-Goes-on-the-Lawn Download

Fountain Hill Borough

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POLLUTION REDUCTION PLAN (PRP)

BOROUGH OF FOUNTAIN HILL
LEHIGH COUNTY
PENNSYLVANIA

SEPTEMBER 16, 2017
(Revised March 13, 2018)
(Finalized June 20, 2018)

PREPARED FOR:

BOROUGH OF FOUNTAIN HILL
941 LONG STREET
FOUNTAIN HILL, PA 18015

Prepared by:

HanoverEngineering

252 Brodhead Road, Suite 100
Bethlehem, PA 18017-8944
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Hanover Project FH17-14

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F Project Designs (to be updated as prepared)

I. Introduction

The Borough of Fountain Hill (Borough) is a suburb of Bethlehem, Pennsylvania, located in Lehigh County in eastern Pennsylvania. The Borough is approximately 480 acres (0.75 square miles) in size with a total population of approximately 4,600 according to the 2010 census. The entire Borough is classified as Urbanized Area (UA), in accordance with the most recent U.S. Census data. The portion of the UA that contributes stormwater to known stormwater outfalls into streams is approximately 424.4 acres; this area is known as the Planning Area for the development of this Pollution Reduction Plan (PRP). Within the Borough, there are approximately 0.9 miles of State Highways and approximately 12.7 miles of Local Borough Roads.

This Pollution Reduction Plan (PRP) was developed for the Borough as a requirement of Permit PAG#132250 for their Municipal Separate Storm Sewer System (MS4). The PRP outlines the actions the Borough will take to address pollutant loads to the Lehigh River. These actions include public participation, mapping of outfalls and other discharges, calculation of pollutant loads, implementation of stormwater Best Management Practices (BMPs), and undertaking operations and maintenance (O&M) activities.

II. Public Participation

Public participation is an essential part of the PRP because it enhances buy-in from residents, business owners, and landowners that may have an impact on pollutant discharges, can uncover missing elements or errors in calculations, and builds cooperative partnerships among the Borough and other entities.

The Borough advertised the development of the PRP via Public Notice on March 14, 2018 in the Bethlehem Press. The notice ran for 1 day and stated the PRP is available for review and comment from March 14, 2018 through April 13, 2018, from 8:30 am to 4:30 pm at Borough Hall. A digital copy was also made available on the Borough website. Proof of publication with a copy of the public notice is provided in Appendix A. The public was given 30 days to provide comments on the contents of the PRP. The Borough also held public meetings on March 21, 2018 and April 2, 2018, to receive verbal commentary on the contents of the PRP.

A. Public Notice Language

NOTICE

NOTICE IS HEREBY GIVEN that the Borough Council of Fountain Hill Borough will receive public comments on the proposed **Pollutant Reduction Plan (PRP), as revised on March 13, 2018**, required for the **2018-2023 NPDES Municipal Separate Storm Sewer Systems (MS4) Permit**.

The proposed PRP is available for review at the Borough Office located at 941 Long Street, Fountain Hill, PA 18015 from 8:30AM to 4:30PM, Monday through Friday from March 14, 2018 through April 13, 2018. Digital copies are also available at www.fountainhill.org during that same period. Interested parties may request a copy of the proposed PRP by contacting the Borough at (610) 867-0301 or bmerkle@fhboro.org.

The Borough will accept written comments for 30 calendar days from the date of this public notice. Interested parties may submit written comments which must be postmarked no later than April 13, 2018, and shall be addressed to Mr. Anthony Branco, Borough Manager, Fountain Hill Borough, 941 Long Street, Fountain Hill, PA 18015.

Comments may be submitted electronically using bmerkle@fhboro.org. The email subject line shall include "Comments – Fountain Hill Borough PRP." The Borough Council will also provide an opportunity for interested parties to provide comments during their regularly scheduled meetings on March 21, 2018 and April 2, 2018, at 7:00PM at Fountain Hill Borough, 941 Long Street, Fountain Hill, PA 18015.

B. List of Public Comments

No public comments were received by the Borough.

C. List of Comments and Record of Consideration

No public comments were received by the Borough, and therefore amendments were neither considered nor made to the draft plan.

III. Mapping

A. Fountain Hill Borough's Urbanized Area and MS4 Responsibilities

The Borough is located entirely within the HUC12 - Lehigh River Watershed (see Figure 1). The entire Borough is considered to be Urbanized Area (UA), in accordance with the most recent U.S. Census Data (2010). The Borough is 480 acres in size, of which 424.4 acres is the Planning Area for development of this PRP, from which concentrated stormwater discharges into piped (underground) streams within the Borough and/or flows overland into the City of Bethlehem (South Bethlehem). Only the headwater areas of the two streams which run through the Borough are natural open channels that are not piped beneath streets, sidewalks, parking areas, and buildings. Portions of these headwater areas are not part of the Planning Area, as they do not generate polluted stormwater for which the Borough is responsible. There is also a 45.75-acre area in the northernmost portion of the Borough which discharges directly into the Lehigh River and is not part of the Borough's MS4 responsibilities.



Figure 1: Map of Urbanized Area (UA) for Fountain Hill Borough

B. Landuses within the MS4 Planning Area

Land-uses within the Borough are comprised of primarily residential, institutional, and commercial development, with lesser areas of open land, parks, and natural area. The landuses determined through the use of MapShed modeling software, with minor updates where applicable, are summarized below in Table 1 and are shown in Appendix B.

Table 1. Landuse Areas within the MS4 Planning Area for Fountain Hill Borough

Land Use Type	Area (acres)
Low Density Mixed	10.8
High Density Mixed	111.8
Mixed Forest	0.2
Deciduous Forest	46.3
Low Density Residential	83.1
Medium Density Residential	10.7
High Density Residential	148.4
Open Land	13.1
TOTAL PLANNING AREA	**424.4**

C. MS4 Zone

The Borough has only one MS4 Zone, with the entire land area draining into the Lehigh River via two smaller drainage areas. The majority of the Borough land drains through a pipe network to the northeast and discharges through a large underground pipe into the stormwater collection system in South Bethlehem (City of Bethlehem). A smaller drainage pipe network in the northern portion of the Borough, primarily draining the lands of St. Luke's Hospital and surrounding residential land, flows to the north and discharges directly into the Lehigh River. The mapping provided in Appendices A and B shows these drainage areas. A small portion of the Borough along the Lehigh River drains directly to the river and is not part of any the MS4 Zone, for which stormwater planning is required as part of this PRP.

D. Surface Waters

The Borough ultimately discharges all stormwater within the Urbanized Area (UA) to the Lehigh River. The Lehigh River is classified as Warm Water Fishes, Migratory Fishes (WWF, MF) and is listed as non-attaining for aquatic life. The unnamed tributaries that flow through the Borough and drain directly into the Lehigh River are also classified as Warm Water Fishes, Migratory Fishes (WWF, MF). The Pennsylvania Department of Environmental Protection (DEP) has included the Lehigh River on their MS4 Requirements Table, last revised March 5, 2018, as indicated below:

Table 2. MS4 Requirements Table for the Borough of Fountain Hill

MS4 Name	NPDES ID	Individual Permit Required	Reason	Impaired Downstream Waters Names	Requirement(s)	Other Cause(s) of Impairment
Fountain Hill Borough	PAG132250	No	N/A	Lehigh River	Appendix C-PCB(5), Appendix E-Organic Enrichment/Low D.O., Siltation, Susp. Solids(5)	None

NOTE: In watersheds where sediment is listed as a concern, the MS4 permittee must reduce sediment loading by 10 percent; where nutrients are listed as a concern, the MS4 permittee must reduce phosphorus by 5 percent and nitrogen by 3 percent. PA DEP assumes that the 5 percent reduction for phosphorus to be met with the 10 percent reduction in sediment.

IV. Pollutant Loadings

A. Methods

MapShed Version 1.5.1 was used to calculate the existing sediment load within the designated MS4 Planning Area of Fountain Hill Borough. Loads from individual drainage areas within the Borough were aggregated being all within the same subwatershed. There is one (1) HUC12 watershed which contains all of Fountain Hill Borough; the Lehigh River (see Figure 2). Planning Areas within the Borough were modeled within the 40.85-square mile HUC12 Lehigh River watershed basin.

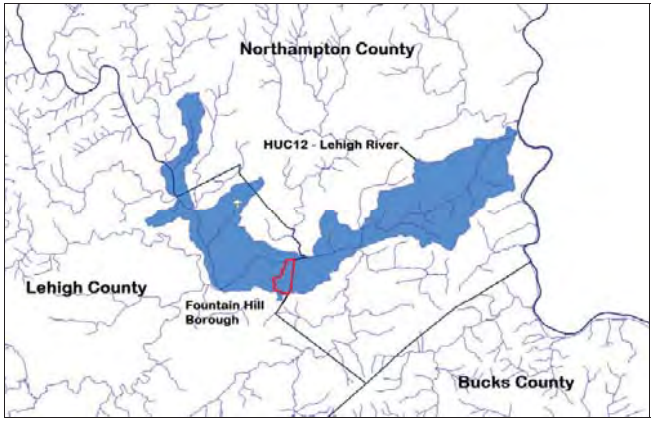


Figure 2: Map of MapShed Basin for Fountain Hill Borough

B. Existing Stormwater BMPs in the Planning Area

Fountain Hill Borough is relatively old and most land has been developed for many decades, with little or no considerations for stormwater management or water quality improvements in runoff. In fact, given the Borough's position in the overall watershed of the Lehigh River, Act 167 Stormwater Management Planning indicated that the entire Borough was in a "no detention zone," with the goal of getting stormwater to the Lehigh River as quickly as possible to help alleviate flooding in Bethlehem and Easton.

In 2011, a new commercial land development plan that required an NPDES permit from PA DEP was constructed. The NPDES regulations required stormwater management to infiltrate and improve stormwater quality for the discharge from this site. The drainage area to this site is approximately 2.35 acres, with treatment provided by a sand filter system beneath its parking lot. In consideration of a 0.95 sediment removal coefficient, this system results in a sediment load reduction of 131.1 lbs/year, which was subtracted from the raw Total Existing Sediment Load calculated for the Borough's 424.4-acre Planning Area. See Table 3, below, and reference Appendix C – Calculations for Existing BMP Load Reductions.

Table 3. Existing Stormwater BMPs in the Planning Area

Facility/NPDES Permit Number	BMP Type	Date of Installation	Coordinates	Treatment Area (ac)	Efficiency	Sediment Load Reduction (lbs/yr)
Bottom Dollar PAG02-0039-10-012	Sand Filter	September 2011	40.5995990N -75.4026500W	2.35	0.95	131.1

C. Pollutant Load Calculation

To model the existing sediment load for the MS4 Planning Areas in Fountain Hill Borough using the MapShed program, a base model run of the Lehigh River HUC12 watershed was performed. The Borough is a relatively small portion of the overall Lehigh River HUC12 watershed and contains relatively small subwatersheds within the Borough boundaries. MapShed was used to determine landuses and sediment runoff coefficients, or loading rates. ArcMap was then used with the same landuse data to develop the sediment load for the Planning Area, using the previously derived landuse loading coefficients. Landuse data were adjusted, accordingly, to account for landuse changes occurring since development of the original landuse data set (e.g., several areas shown as "Open Land" were reclassified to either "Forest" or "Low Density Residential" landuse). See Table 4, below, for landuse loading rates and respective pollutant load calculations. The pollutant load reduction from the one (1) recent land development project with and existing stormwater BMP (i.e., Bottom Dollar Store) was subtracted from the total existing load for the Planning Area.

Table 4. MapShed Sediment Land Use Loading Rates and Calculated Pollutant Loads – Lehigh River Watershed

Land Cover	Loading Rate (lbs/ac/yr)	Area (ac)	Sediment Load (lbs/yr)
Forest	26.2	46.4	1,216.7
Open Land	378.0	13.1	4,951.8
Low Density Mixed	17.9	10.8	192.9
High Density Mixed	78.6	111.8	8,784.9
Low Density Residential	17.9	83.1	1,484.1
Medium Density Residential	78.6	10.7	840.7
High Density Residential	78.6	148.4	11,663.0
TOTAL		**424.4**	**29,134.0**

Based on these existing load calculations it was determined that the Borough's raw existing sediment loading is 29,134.0 lbs/year.

D. Pollutant Load Reduction Requirements

Based on these existing load calculations it was determined that the Borough's existing sediment loading is 29,134.0 lbs/year. After taking into account 131.1 lbs/year of sediment reduction from one (1) existing stormwater BMP, the minimum total sediment loading reduction required for Fountain Hill Borough is 2,900.3 lbs/year, as summarized below in Table 5.

Table 5. Pollutant Load Reduction Requirements for the MS4 Planning Area within Fountain Hill Borough

Planning Area Name	Total Acres	Land Use Sediment Load (lbs)	Streambank Sediment Load (lbs)	Total Sediment Load (lbs)
UNT to Lehigh River	424.4	29,134.0	0	29,134.0
Existing BMP Load Reduction	2.4	131.1	0	131.1
Final Existing Load				29,002.9
Required 10% Reduction				2,900.3

V. BMPs Selected to Achieve the Minimum Required Reductions in Pollutant Loading

Based on the 10% sediment load reduction targets established above, the Borough of Fountain Hill has identified potential BMPs to meet the minimum load reductions during the next 5-year permit term.

BMPs for stormwater management were determined, based on available public land, existing facilities, and potential for pollutant removal. All potential stormwater BMPs listed in the BMP Effectiveness Values table provided by PA DEP were considered. A list of the BMPs selected for Fountain Hill Borough to meet sediment loading reduction goals is provided below in Table 6, with a location map provided in Appendix E.

A. Summary of Alternatives and Selection of BMPs

The Borough identified and evaluated BMPs, according to the following criteria:

- Sediment reduction
- Cost-effectiveness of pollutant reduction
- Ownership (public vs. private land, single party vs. multi-party ownership)
- Partnership with other major landowners within the Planning Area
- Funding and workforce availability
- Community benefit (site accessibility, flooding relief, aesthetics, etc.)
- Connectivity to other completed or proposed stormwater BMPs
- Timeframe to implement

The purpose of the evaluation was to determine the most cost-effective BMPs that would benefit water quality and the community. The highest priority BMPs are included in this PRP. The BMPs selected are a list of good opportunities that the Borough has identified and may use to meet their required sediment reduction. The Borough of Fountain Hill is not committing to implementing all the BMPs listed in this PRP, as that would exceed their required reduction. The actual implemented BMPs will be based on further site evaluation, negotiations with stakeholders, detailed design criteria, permitting complexity, and cost. The plan will be adjusted and revised, as new opportunities arise and as necessary to accomplish reduction goals with the most cost-effective BMPs.

The Borough will continuously evaluate cost-effective opportunities to meet required reductions. These could include working jointly with other municipalities on a joint project if viable opportunities arise. The Borough will also evaluate opportunities to work with future private developers or land development applicants where cooperative efforts merit consideration. As new opportunities are selected for implementation to meet sediment reduction requirements, this PRP will be amended, advertised for public comment, and resubmitted to PA DEP.

B. Pollutant Removals

The minimum sediment reduction required for the Borough in the Lehigh River Watershed is 2,900.3 lbs/year, as shown above in Table 5.

Since MapShed was used to determine pollutant loading coefficients for the landuses within the Borough and to calculate the existing load, the same data were used to calculate the load reductions resulting from the implementation of the proposed stormwater BMPs. Sediment

removal efficiency values were taken from the PA DEP BMP Effectiveness Values table (3800-PM-BCW0100M) and applied to the pollutant loadings calculated for each proposed BMP to determine the reductions expected for each proposed BMP. Watersheds for proposed BMPs were developed in ArcMap using available Geographic Information Systems (GIS) data, including data for parcels, 2-foot Lidar topography, buildings, and landuses. The total potential BMP sediment loading reduction value of 3,832.4 lbs/year was then subtracted from the required total sediment loading reduction of 2,900.3 lbs/year to show a surplus removal value of 932.2 lbs/year.

The stormwater BMPs listed in Table 6 will be considered for implementation by the Borough to meet their required sediment reduction. The Borough is not committing to implement each BMP listed. BMPs will be chosen based on additional evaluation of cost-benefit once more detailed planning has been completed. The combination of selected BMPs will meet the required 10% reduction for sediment load from the Planning Area within the Borough and will be implemented by the next 5-year permit term, or as formally extended. A summary of all the currently proposed BMPs and how they meet the required 10% load reduction is shown below in Table 6. Calculations for BMP sediment load reductions are provided in Appendix D. BMP project locations are shown in Appendix E. BMP designs will be added to this PRP as Appendix F, as they are completed, approved, and installed.

C. Operation and Maintenance Requirements

With regard to existing and future stormwater BMPs that may be constructed on private property and not managed by the Borough, the Borough's Stormwater Management Ordinance requires legally binding Operation and Maintenance (O&M) provisions which must be completed for facilities not dedicated or accepted by the Borough. The Borough's MS4 permit indicates and requires regular inspection by the facility owner and Borough staff at least one (1) time during each 5-year permit term. The Stormwater Management Ordinance also specifies regular inspection intervals by the owner, who is responsible for maintenance under various situations. Operation and Maintenance requirements, including responsible parties, activities, and schedules are listed below in Table 6.

Table 6. Summary of Proposed BMPs in the Planning Area of Fountain Hill Borough

BMP ID	BMP Type	Sediment Load Reduction (lbs/yr)	Percent of Required Reduction	Landowner	Installation Responsibility	Funding Mechanism	Operation & Maintenance Responsibility	Operation & Maintenance Activities/Schedule
Inlet 001-B	Inlet Filter Bag	2.1	0.05%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 001-D	Inlet Filter Bag	1.8	0.05%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 002	Inlet Filter Bag	2.8	0.07%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 006	Inlet Filter Bag	28.0	0.73%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 011	Inlet Filter Bag	20.4	0.53%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 016	Inlet Filter Bag	34.2	0.89%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 017-A	Inlet Filter Bag	6.1	0.16%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 017-B	Inlet Filter Bag	10.1	0.26%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 017-C	Inlet Filter Bag	13.9	0.36%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 020	Inlet Filter Bag	18.1	0.47%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 021-A	Inlet Filter Bag	7.8	0.20%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 021-B	Inlet Filter Bag	6.9	0.18%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 021-C	Inlet Filter Bag	3.2	0.08%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 021-D	Inlet Filter Bag	1.0	0.03%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 021-E	Inlet Filter Bag	16.6	0.43%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 021-F	Inlet Filter Bag	1.5	0.04%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 021-G	Inlet Filter Bag	2.8	0.07%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 022	Inlet Filter Bag	27.1	0.71%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 038	Inlet Filter Bag	4.1	0.11%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 040	Inlet Filter Bag	6.6	0.17%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 043	Inlet Filter Bag	20.7	0.54%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 043-A	Inlet Filter Bag	4.6	0.12%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 043-B	Inlet Filter Bag	14.0	0.36%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 043-C	Inlet Filter Bag	7.2	0.19%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 046-A	Inlet Filter Bag	7.7	0.20%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 046-B	Inlet Filter Bag	5.3	0.14%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 047	Inlet Filter Bag	31.8	0.85%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet	Inlet Filter Bag	26.1	0.68%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 048-B	Inlet Filter Bag	6.8	0.18%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 049	Inlet Filter Bag	14.7	0.38%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 050-A	Inlet Filter Bag	1.7	0.04%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 050-B	Inlet Filter Bag	4.2	0.11%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 050-C	Inlet Filter Bag	3.1	0.08%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 050-D	Inlet Filter Bag	6.2	0.16%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 050-E	Inlet Filter Bag	5.1	0.13%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 050-F	Inlet Filter Bag	4.0	0.11%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 050-G	Inlet Filter Bag	13.1	0.34%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 052	Inlet Filter Bag	10.0	0.26%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 055-A	Inlet Filter Bag	21.7	0.57%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 055-B	Inlet Filter Bag	8.0	0.21%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 055-C	Inlet Filter Bag	4.0	0.11%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events

Borough Parking Lot and Downspouts	Bioretention with Underdrain	908	2.37%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Monthly, perform trash removal, inspect outlet for obstructions/clogging, and inspect inlet grates. Quarterly, street sweep parking lot. Annually, skim sand media and pump oil and grit from sediment chamber (once 50% full). Every two to three years, replace sand media (or as needed).
Existing Street Luke's Basin	Bioretention Basin	131.9	3.44%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Annually, cut back perennial plants. Twice per year, check vegetation for condition, remove woody vegetation, remove accumulated sediments.
Jeter Avenue Basin (Craig Street)	Bioretention Basin	348.4	9.09%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Annually, cut back perennial plants. Twice per year, check vegetation for condition, remove woody vegetation, remove accumulated sediments.
Park Bioretention	Bioretention Swale	32.9	0.86%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Annually, cut back perennial plants. Twice per year, check vegetation for condition, remove woody vegetation, remove accumulated sediments.
Proposed Basin	Bioretention Basin	1390.0	36.27%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Annually, cut back perennial plants. Twice per year, check vegetation for condition, remove woody vegetation, remove accumulated sediments.
Proposed Street Luke's Basin	Bioretention Basin	234.7	6.12%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Annually, cut back perennial plants. Twice per year, check vegetation for condition, remove woody vegetation, remove accumulated sediments.
Rain Garden - Pool House	Rain Garden	9.3	0.24%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Annually, cut back perennial plants. Twice per year, check vegetation for condition, check inflow and remove sediments, re-mulch bare spots. Every three years, reapply mulch.
Stanley Avenue Park Swale	Bioretention with Underdrain	101.5	2.65%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Annually, cut back perennial plants. Twice per year, check vegetation for condition, remove woody vegetation, remove accumulated sediments.
Warren Street Basin	Bioretention Basin	981.2	25.60%	Private	Borough	Stormwater Fee/Grant Funds	Private	Annually, cut back perennial plants. Twice per year, check vegetation for condition, remove woody vegetation, remove accumulated sediments.
Proposed Street Tree Plantings	Street Tree Planting	76.6	2.00%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Inspect annually and prune as needed. Replace as needed.
TOTALS		**3,832.4**	**100.00%**					

VI. Summary

The Borough of Fountain Hill plans to complete the planning and permitting stages of the listed projects during the next two (2) years so that the projects will be ensured to meet the requirements of the upcoming 2018 Permit. The Borough desires to ensure that the projects will be designed to meet the current and upcoming requirements and reduction goals, which may mean that this PRP will be revised as design and permitting are completed. Additional BMPs will be added to the plan, as necessary or as opportunities present, to improve stormwater management within the Borough. Updates on each of the proposed BMPs and the implementation status of the PRP will be included in all future MS4 reporting submitted to PA DEP. The Borough is currently preparing to implement a stormwater fee to fund the installation of all proposed BMPs. Whenever practicable, the Borough will apply for available funding for stormwater improvements. Fee revenues may serve as matching funds where required.

Appendix A

Public Notice

PROOF OF PUBLICATION

THE PRESS GROUP NEWSPAPERS

East Penn Press • Parkland Press • Northwestern Press • Whitehall-Coplay Press • Northampton Press • Salisbury Press • Catasauqua Press • Bethlehem Press

ALLENTOWN, LEHIGH COUNTY, PENNSYLVANIA

Commonwealth of Pennsylvania)
) ss.
County of Carbon)

Scott A. Masenheimer, being duly sworn according to law does depose and say:

1. THAT The Press is a group of weekly newspapers of general circulation published weekly, by The Times News, LLC. Its place of business is Allentown, Lehigh County, Pennsylvania.

2. THAT The Press was established on April 9, 1959.

3. THAT the affiant is the Publisher of The Press newspapers and as such is authorized by the owner, The Times News LLC, to take this affidavit.

4. THAT the affiant is not interested in the subject matter of the notice or advertising.

5. THAT all of the allegations of this affidavit as to time, place and character of publication are true.

6. THAT copy of the notice or advertising attached hereto was printed and published in the regular editions and issues of The Press on the following dates:

MARCH 14, 2018

Scott A. Masenheimer

Sworn to and subscribed before me, this 16 day of March A.D., 2018

Rebeka Costenbader

NOTARIAL SEAL
Rebeka Costenbader, Notary Public
Lehighton Borough, Carbon County
My Comm. Expires November 17, 2020

PUBLIC NOTICE

NOTICE IS HEREBY GIVEN that the Borough Council of Fountain Hill Borough will receive public comments on the proposed **Pollutant Reduction Plan (PRP), as revised on March 13, 2018, required for the 2018-2023 NPDES Municipal Separate Storm Sewer Systems (MS4) Permit.**

The proposed PRP is available for review at the Borough Office located at 941 Long Street Fountain Hill, PA 18015 from 8:30AM to 4:30PM, Monday through Friday from March 14, 2018 through April 13, 2018. Digital copies are also available at www.fountainhill.org during that same period. Interested parties may request a copy of the proposed PRP by contacting the Borough at (610) 867-0301 or bmerkle@fhboro.org.

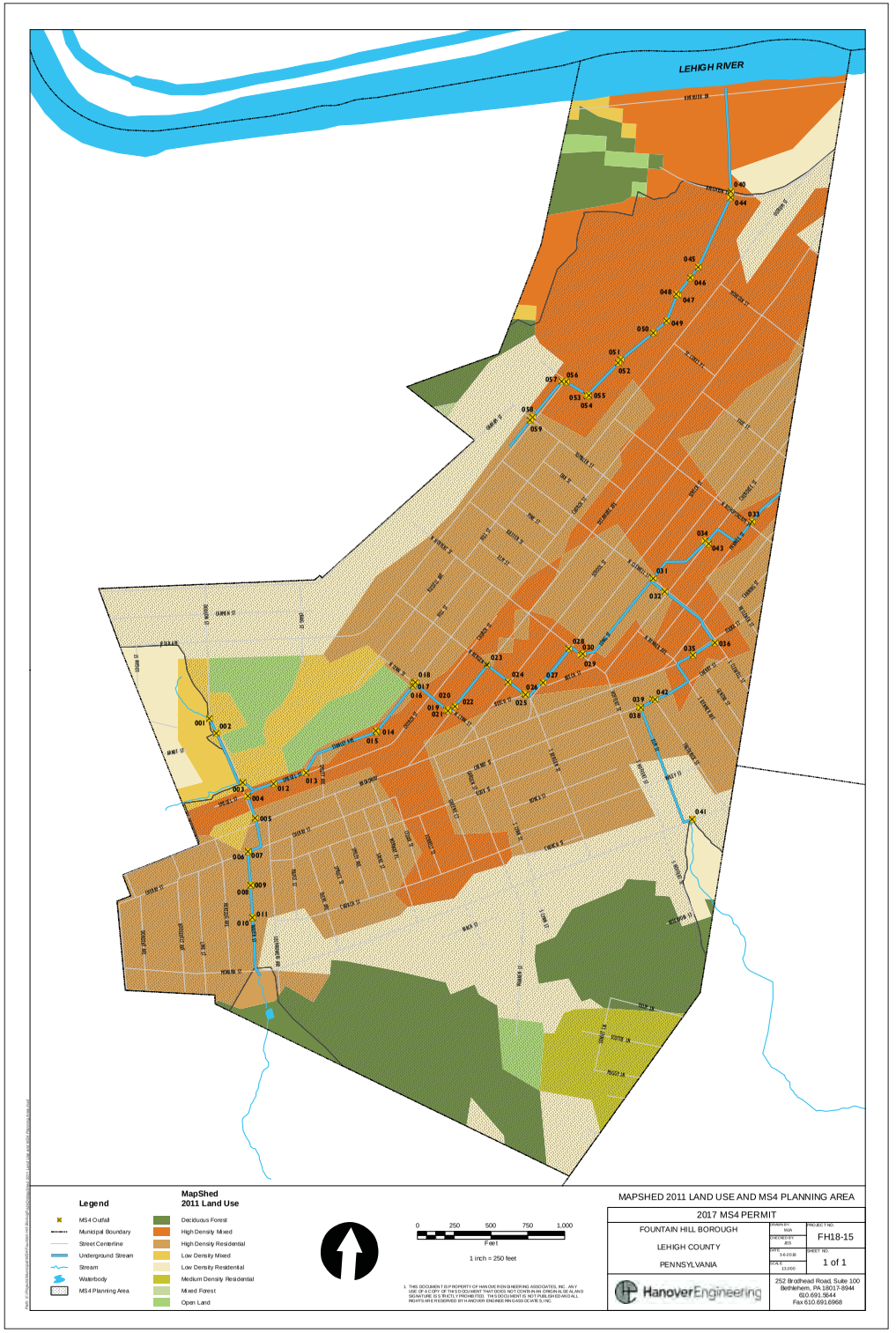
The Borough will accept written comments for 30 calendar days from the date of this public notice. Interested parties may submit written comments which must be postmarked no later than April 13, 2018, and shall be addressed to Mr. Anthony Branco, Borough Manager, Fountain Hill Borough, 941 Long Street, Fountain Hill, PA 18015.

Comments may be submitted electronically using bmerkle@fhboro.org. The email subject line shall include "Comments – Fountain Hill Borough PRP." The Borough Council will also provide an opportunity for interested parties to provide comments during their regularly scheduled meetings on March 21, 2018 and April 2, 2018 at 7:00PM at Fountain Hill Borough, 941 Long Street, Fountain Hill, PA 18015.

Mar. 14

Appendix B

MapShed 2011 Landuse and MS4 Planning Area



Appendix C

Calculations for Existing BMP Sediment Load Reductions

BMP ID	Area (AC)	Land Use Code	Land Use	Coeff (lbs/ac/yr)	Existing Sediment Load - Landuse (lbs/yr)	Existing Total Sediment Load	BMP Type	Sediment Load Reduction Coeff (percent)	Sediment Load Reduction (lbs/yr)
Bottom Dollar	0.76891332	2	Low Density Mixed	17.9	13.7	138.0	Sand Filter System	0.95	131.1
	1.51488558	3	High Density Mixed	78.6	119.0				
	0.06677669	19	High Density Residential	78.6	5.2				

Appendix D

Calculations for Proposed BMP Sediment Load Reductions

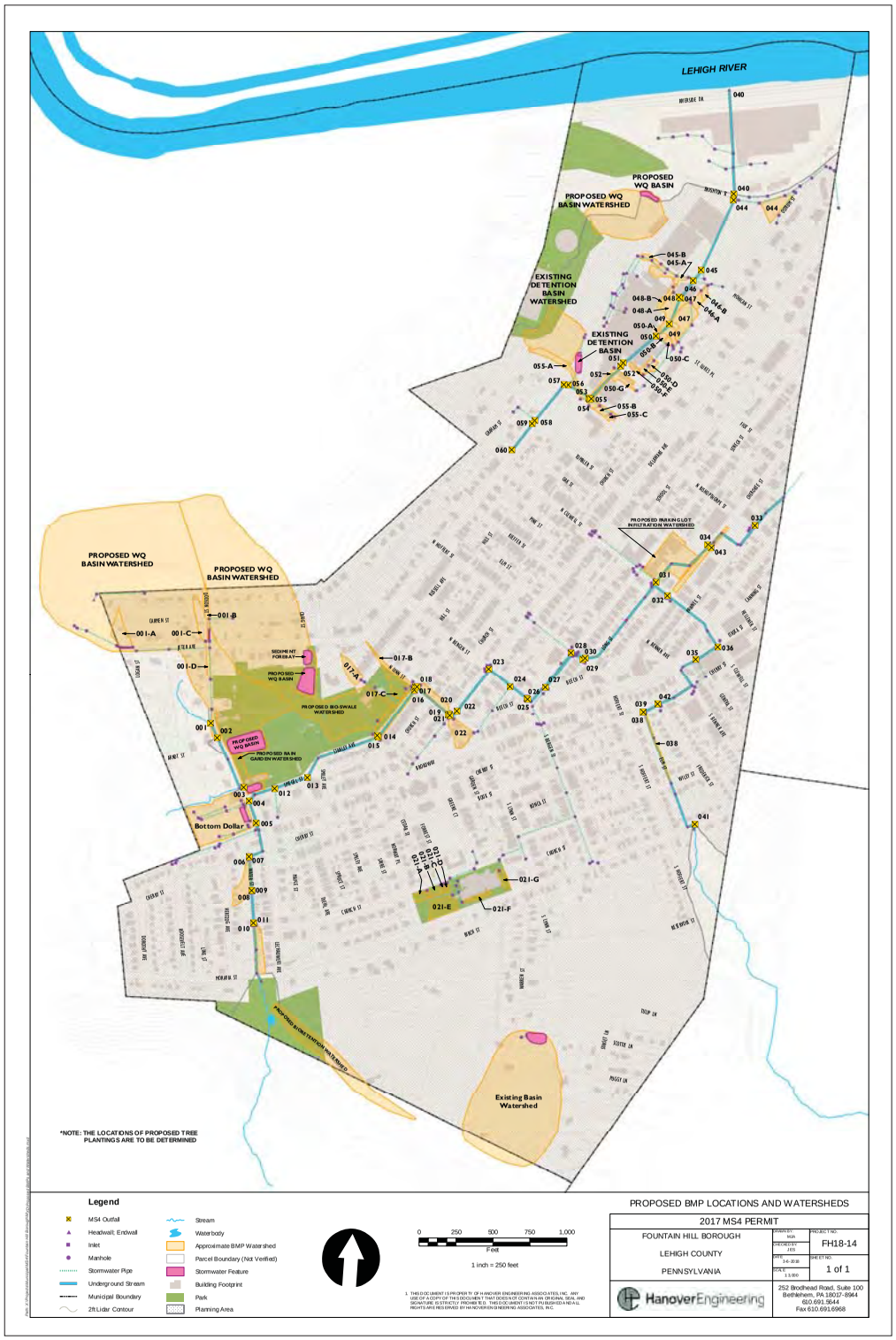
BMP ID	Area (AC)	Land Use Code	Land Use	Coeff (lbs/ac/yr)	Existing Sediment Load - Landuse (lbs/yr)	Existing Total Sediment Load	BMP Type	Sediment Load Reduction Coeff (percent)	Sediment Load Reduction (lbs/yr)
001-B	0.14415732	17	Low Density Residential	17.9	2.6	2.6	Inlet Filter Bag	0.8	2.1
001-D	0.04974017	2	Low Density Mixed	17.9	0.9	2.3	Inlet Filter Bag	0.8	1.8
001-D	0.0770165	17	Low Density Residential	17.9	1.4				
002	0.1929254	2	Low Density Mixed	17.9	3.5	3.5	Inlet Filter Bag	0.8	2.8
006	0.44605617	19	High Density Residential	78.6	35.1	35.1	Inlet Filter Bag	0.8	28.0
011	0.30843225	19	High Density Residential	78.6	24.2	25.5	Inlet Filter Bag	0.8	20.4
011	0.07208893	17	Low Density Residential	17.9	1.3				
016	0.15300576	3	High Density Mixed	78.6	12.0	42.8	Inlet Filter Bag	0.8	34.2
016	0.39101664	19	High Density Residential	78.6	30.7				
017-A	0.02961427	19	High Density Residential	78.6	2.3	7.6	Inlet Filter Bag	0.8	6.1
017-A	0.29339538	2	Low Density Mixed	17.9	5.3				
017-B	0.15257227	19	High Density Residential	78.6	12.0	12.6	Inlet Filter Bag	0.8	10.1
017-B	0.0327577	2	Low Density Mixed	17.9	0.6				
017-C	0.17703622	19	High Density Residential	78.6	13.9	17.3	Inlet Filter Bag	0.8	13.9
017-C	0.19100915	2	Low Density Mixed	17.9	3.4				
020	0.22990048	3	High Density Mixed	78.6	18.1	22.7	Inlet Filter Bag	0.8	18.1
020	0.05864632	19	High Density Residential	78.6	4.6				
021-A	0.12466887	3	High Density Mixed	78.6	9.8	9.8	Inlet Filter Bag	0.8	7.8
021-B	0.10918699	3	High Density Mixed	78.6	8.6	8.6	Inlet Filter Bag	0.8	6.9
021-C	0.05165408	3	High Density Mixed	78.6	4.1	4.1	Inlet Filter Bag	0.8	3.2
021-D	0.01588792	3	High Density Mixed	78.6	1.2	1.2	Inlet Filter Bag	0.8	1.0
021-E	0.20684731	3	High Density Mixed	78.6	16.3	20.8	Inlet Filter Bag	0.8	16.6
021-E	0.25376426	17	Low Density Residential	17.9	4.5				
021-F	0.10713302	17	Low Density Residential	17.9	1.9	1.9	Inlet Filter Bag	0.8	1.5
021-G	0.01656762	3	High Density Mixed	78.6	1.3	3.5	Inlet Filter Bag	0.8	2.8
021-G	0.12197966	17	Low Density Residential	17.9	2.2				
022	0.15467749	3	High Density Mixed	78.6	12.2	33.8	Inlet Filter Bag	0.8	27.1

022	0.27554471	19 High Density Residential	78.6	21.7			
038	0.06130836	19 High Density Residential	78.6	4.8	5.2 Inlet Filter Bag	0.8	4.1
038	0.01934503	17 Low Density Residential	17.9	0.3			
040	0.01489464	3 High Density Mixed	78.6	1.2	8.3 Inlet Filter Bag	0.8	6.6
040	0.3972933	17 Low Density Residential	17.9	7.1			
043	0.32976917	3 High Density Mixed	78.6	25.9	25.9 Inlet Filter Bag	0.8	20.7
045-A	0.0728129	3 High Density Mixed	78.6	5.7	5.7 Inlet Filter Bag	0.8	4.6
045-B	0.22237957	3 High Density Mixed	78.6	17.5	17.5 Inlet Filter Bag	0.8	14.0
045-C	0.11461722	3 High Density Mixed	78.6	9.0	9.0 Inlet Filter Bag	0.8	7.2
046-A	0.1219084	3 High Density Mixed	78.6	9.6	9.6 Inlet Filter Bag	0.8	7.7
046-B	0.08392795	3 High Density Mixed	78.6	6.6	6.6 Inlet Filter Bag	0.8	5.3
047	0.50571792	3 High Density Mixed	78.6	39.7	39.7 Inlet Filter Bag	0.8	31.8
048-A	0.41445126	3 High Density Mixed	78.6	32.6	32.6 Inlet Filter Bag	0.8	26.1
048-B	0.1074416	3 High Density Mixed	78.6	8.4	8.4 Inlet Filter Bag	0.8	6.8
049	0.23443444	3 High Density Mixed	78.6	18.4	18.4 Inlet Filter Bag	0.8	14.7
050-A	0.02667044	3 High Density Mixed	78.6	2.1	2.1 Inlet Filter Bag	0.8	1.7
050-B	0.0670876	3 High Density Mixed	78.6	5.3	5.3 Inlet Filter Bag	0.8	4.2
050-C	0.04971202	3 High Density Mixed	78.6	3.9	3.9 Inlet Filter Bag	0.8	3.1
050-D	0.09847741	3 High Density Mixed	78.6	7.7	7.7 Inlet Filter Bag	0.8	6.2
050-E	0.08063273	3 High Density Mixed	78.6	6.3	6.3 Inlet Filter Bag	0.8	5.1
050-F	0.06408852	3 High Density Mixed	78.6	5.0	5.0 Inlet Filter Bag	0.8	4.0
050-G	0.19985185	3 High Density Mixed	78.6	15.7	16.4 Inlet Filter Bag	0.8	13.1
050-G	0.00821459	19 High Density Residential	78.6	0.6			
052	0.15860441	3 High Density Mixed	78.6	12.5	12.5 Inlet Filter Bag	0.8	10.0
055-A	0.30436685	3 High Density Mixed	78.6	23.9	27.1 Inlet Filter Bag	0.8	21.7
055-A	0.17868598	17 Low Density Residential	17.9	3.2			

055-B	0.12606861	3 High Density Mixed	78.6	9.9	10.0 Inlet Filter Bag	0.8	8.0
055-B	0.00052968	19 High Density Residential	78.6	0.0			
055-C	0.01083431	3 High Density Mixed	78.6	0.9	5.1 Inlet Filter Bag	0.8	4.0
055-C	0.05348081	19 High Density Residential	78.6	4.2			
Borough Parking Lot and Downspouts	1.37116445	3 High Density Mixed	78.6	107.8	113.5 Bioretention with	0.8	90.8
	0.07316731	19 High Density Residential	78.6	5.8	Underdrain		
Existing St. Luke's Basin	0.1780246	9 Deciduous Forest	26.2	4.7	146.6 Bioretention Basin	0.9	131.9
	1.7784531	3 High Density Mixed	78.6	139.8			
	0.11793762	17 Low Density Residential	17.9	2.1			
Jeter Ave Basin (Craig Street)	1.459	2 Low Density Mixed	17.9	26.1	387.1 Bioretention Basin	0.9	348.4
	7.08799725	17 Low Density Residential	17.9	126.9			
	0.61935	21 Open Land	378.0	234.1			
Park Bioretention	1.3645209	9 Deciduous Forest	26.2	35.8	36.5 Bioretention Swale	0.9	32.9
	0.00975884	19 High Density Residential	78.6	0.8			
Proposed Basin	1.862	2 Low Density Mixed	17.9	33.3	1544.4 Bioretention Basin	0.9	1390.0
	7.002	17 Low Density Residential	17.9	125.3			
	3.666	21 Open Land	378.0	1385.7			
Proposed St. Luke's Basin	0.54119116	9 Deciduous Forest	26.2	14.2	260.8 Bioretention Basin	0.9	234.7
	2.49511424	3 High Density Mixed	78.6	196.1			
	0.13361426	21 Open Land	378	50.5			
Rain Garden - Pool House	0.02316673	3 High Density Mixed	78.6	1.8	11.7 Rain Garden	0.8	9.3
	0.5492711	2 Low Density Mixed	17.9	9.8			
Stanley Ave Park Swale	1.0538441	19 High Density Residential	78.6	82.8	126.9 Bioretention with	0.8	101.5
	2.4623198	2 Low Density Mixed	17.9	44.1	Underdrain		
Warren Street Basin	4.9614285	9 Deciduous Forest	26.2	130.0	1090.3 Bioretention Basin	0.9	981.2
	1.41678494	17 Low Density Residential	17.9	25.4			
	0.86004343	18 Medium Density Residential	78.6	67.6			
	2.29446843	9 Open Land (Forest)	378	867.3			
Proposed Street Tree Plantings	0.75	2 Low Density Mixed	17.9	13.4	13.4 Street Tree Planting	0.2	2.7
Proposed Street Tree Plantings	2	3 High Density Mixed	78.6	157.2	157.2 Street Tree Planting	0.2	31.4
Proposed Street Tree Plantings	2	17 Low Density Ressidential	17.9	35.7	35.7 Street Tree Planting	0.2	7.1
Proposed Street Tree Plantings	0.25	18 Medium Density Residential	78.6	19.6	19.6 Street Tree Planting	0.2	3.9
Proposed Street Tree Plantings	2	19 High Density Residential	78.6	157.2	157.2 Street Tree Planting	0.2	31.4

Appendix E

Proposed BMP Locations and Watersheds

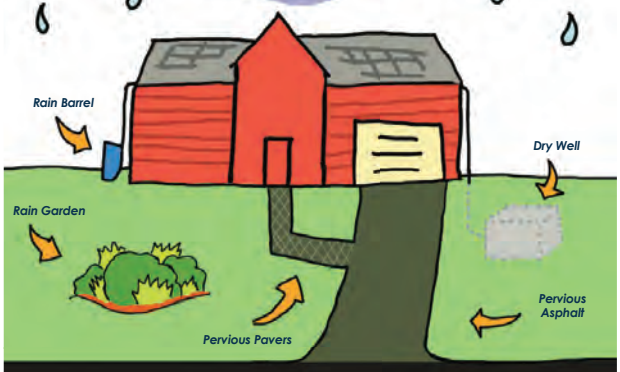


Appendix F

Project Designs
(to be updated as prepared)

Homeowners Guide to Stormwater BMP Maintenance

What You Need to Know to Take Care of Your Property



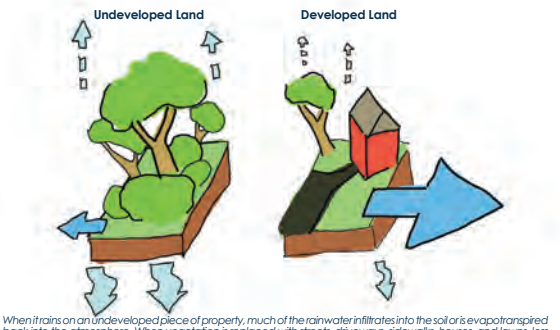
About Stormwater Management — Pages **1 - 4**
SW **Regulations** for Homeowners — Pages **5 - 6**
Home Stormwater **BMP Descriptions** — Pages **8 - 22**

What is Stormwater?

Stormwater is the water that runs off the land after precipitation, either rain or snowmelt. Rain or snow can drain down into the soil (called infiltration), evaporate back into the atmosphere, be used by plants, or flow into streams or water bodies. The water that runs off the land to streams or lakes is referred to as stormwater runoff.

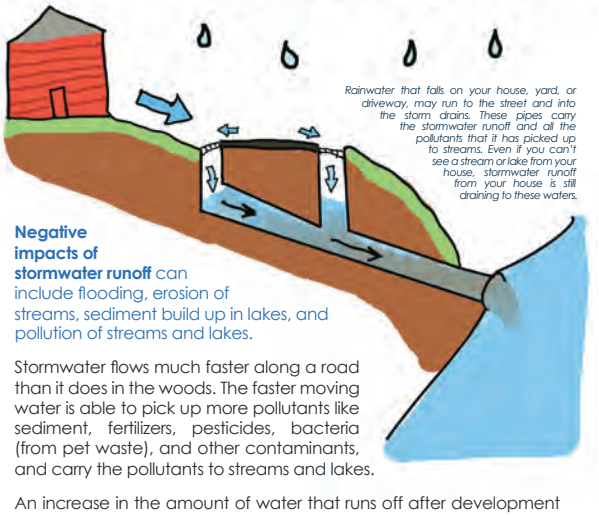
Stormwater runoff happens in natural, undeveloped areas, but typically only for larger storms. For most areas in Pennsylvania that are wooded or natural meadows, it takes about an inch or more of rain to produce runoff.

After development, the natural wooded or meadow areas are replaced with roofs, driveways, sidewalks, and streets. These hard surfaces are called impervious surfaces, and they do not allow water to drain through them, unlike how rain can drain into soil (which is called a pervious surface). When rain falls on impervious surfaces, it runs off rather than infiltrating into the soil or being taken up by vegetation.



When it rains on an undeveloped piece of property, much of the rainwater infiltrates into the soil or is evapotranspired back into the atmosphere. When vegetation is replaced with streets, driveways, sidewalks, houses, and lawns, less rainwater is able to infiltrate or return to the atmosphere, and more of the rain turns into runoff.

Why should you care about Stormwater Management?



Rainwater that falls on your house, yard, or driveway, may run to the street and into the storm drains. These pipes carry the stormwater runoff and all the pollutants that it has picked up to streams. Even if you can't see a stream or lake from your house, stormwater runoff from your house is still draining to these waters.

Negative impacts of stormwater runoff can include flooding, erosion of streams, sediment build up in lakes, and pollution of streams and lakes.

Stormwater flows much faster along a road than it does in the woods. The faster moving water is able to pick up more pollutants like sediment, fertilizers, pesticides, bacteria (from pet waste), and other contaminants, and carry the pollutants to streams and lakes.

An increase in the amount of water that runs off after development and how quickly it runs off can cause erosion and instability in streams. Stormwater runoff can cause streams to become wider, deeper, and straighter, losing their natural bends (or meanders) and decreasing habitat for fish and other animals that live in streams. Stormwater from developed areas can also be hotter than natural stream sources. Warmer water holds less dissolved oxygen so stormwater can be harmful to fish like trout that need more oxygen.

It's easy to notice the flooding impacts of large rain storms, but over time, smaller storms can have an impact on streams, too. Across the state, about 95% of the rainfall volume occurs in small events (less than 2.4 to 3.2 inches depending on your location.)

BMPs: what are they, & what do they do?

BMP stands for Best Management Practice, and includes designed "things" like detention basins, as well as non-engineered approaches like protecting open space to manage stormwater. SCMs are Stormwater Control Measures, which are engineered facilities that are designed and constructed to manage stormwater. For the most part, the terms BMP and SCM can be used interchangeably.

The goal of BMPs or SCMs is to reduce the impact of development on downstream streams and lakes by:

- **minimizing the amount of runoff,**
- **slowing down the runoff,**
- **infiltrating runoff,**
- **evapotranspiring runoff,** or
- **filtering runoff.**

Many BMPs or SCMs will use vegetation for their ability to use water, put water back into the atmosphere, or help it infiltrate into the ground, rather than allow it to become runoff.

If you've ever walked through a meadow or shaken a tree branch after a rain, you got wet with intercepted water. When it rains, some of the water is trapped on plants. This "intercepted" water never even makes it to the ground where it could be infiltrated. Plants also use water as part of the photosynthesis process where they use the sun's energy to create their own food. This water used by plants is called evapotranspiration. Larger plants with broader leaves and deeper roots like trees, shrubs, or decorative grasses will intercept and evapotranspire more water than a grass lawn.



All of the homes in your community drain to a stream or lake. All homeowners need to do their part to maintain stormwater BMPs in their own yard to protect streams and lakes for everyone.

Your whole community has been designed with stormwater management in mind. There are many different BMPs spread throughout the development. Stormwater flows downstream, and the homeowners must do their part on their own property to protect the streams for everyone. You and all of your neighbors each play an important role in the health of downstream waters.

Some BMPs/SCMs are landscaped and others are buried so you might not see anything at the surface. Even though it might just look like some plants or gravel, the BMP is still performing a very important function. Disturbing the vegetation or compacting the soil can ruin that BMP and have a negative impact downstream.

Native vegetation is the best choice for BMPs because they're naturally adapted to the soils and climate. They require less fertilizer, pesticides, watering, and overall less maintenance.

Stormwater Regulations

When a property is developed, the developer must incorporate stormwater management facilities. He/she must design **Erosion and Sediment Control (E&S) BMPs** that are used during construction to prevent soil from running off the site and polluting downstream waters. When the construction period is over, **Post-Construction Stormwater Management (PCSM) BMPs** will have been constructed, and the developer must provide a way for these BMPs to be properly maintained over time.

When the developer finished the project, they will have turned over the maintenance responsibilities for the BMPs to someone else, which could be the property owner, a nonprofit organization, the local municipality, an authority, a private corporation, or another person. The developer will also have produced a plan that must include drawings, which show the location and dimensions of each PCSM BMP. Accompanying this PCSM Plan will be a long-term operation and maintenance schedule, which provides for inspection of PCSM BMPs, including the repair, replacement, or other routine maintenance of the PCSM BMPs to ensure proper function and operation. This maintenance program must describe how access to the PCSM BMPs will be achieved.

The developer will be following the rules of **PA Code, Title 25, Chapter 102**, which defines rules for both Erosion and Sediment Control, and Post Construction Stormwater Management. These regulations can be found by going to PA Code online at www.pacode.com and then browsing to Title 25, Chapter 102.

What's the Homeowner's Legal Responsibility?

If your home was constructed after 2010, and your property contains any Post Construction Stormwater Management (PCSM) BMPs, the developer will have recorded details about them with your property's deed. State regulation requires that the information recorded with the deed identifies the PCSM BMP, provides for access to the BMPs for maintenance and inspection purposes, and provides notice that the responsibility for long-term operation and maintenance of the PCSM BMP is a legal requirement that runs with the property. You can view your property records at the Recorder of Deeds office at your county courthouse to determine if you are responsible for the maintenance of any BMPs.

If you are the person designated as the responsible-party for operation and maintenance, you must ensure that the BMPs continue to function properly and follow the maintenance schedule provided by the developer and recorded with your deed. The responsibility to maintain the BMPs includes the cost of plants or material for upkeep or replacement. You should have been provided a maintenance plan by the developer if you're the first owner of the home. If your home was constructed after 2010, you may need to check the property records for information if you're not the first owner and didn't receive the maintenance plan at the time of purchase.

If you're not doing the necessary maintenance and required documentation, you may be billed by your municipality for the cost of having someone else do the work, or you could face a summary offense and daily fine until the maintenance work is complete.

If responsibility has been transferred to someone else, you need to provide access for maintenance and inspection. You also must leave any BMPs in place. For example, you can't remove the vegetation of a rain garden, level it, and plant lawn grass.

Downspout Disconnection

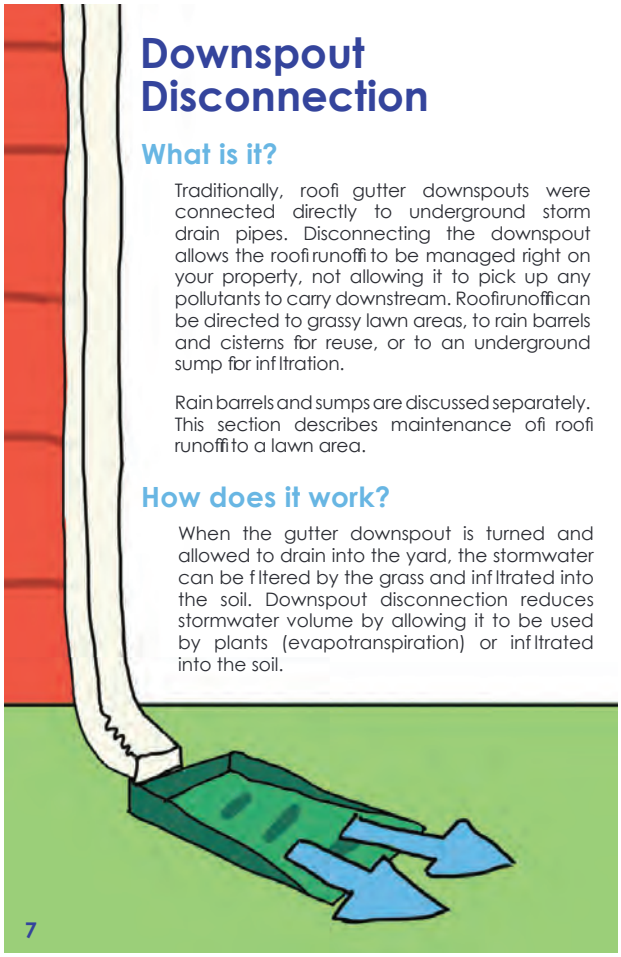
What is it?

Traditionally, roof gutter downspouts were connected directly to underground storm drain pipes. Disconnecting the downspout allows the roof runoff to be managed right on your property, not allowing it to pick up any pollutants to carry downstream. Roof runoff can be directed to grassy lawn areas, to rain barrels and cisterns for reuse, or to an underground sump for infiltration.

Rain barrels and sumps are discussed separately. This section describes maintenance of roof runoff to a lawn area.

How does it work?

When the gutter downspout is turned and allowed to drain into the yard, the stormwater can be filtered by the grass and infiltrated into the soil. Downspout disconnection reduces stormwater volume by allowing it to be used by plants (evapotranspiration) or infiltrated into the soil.



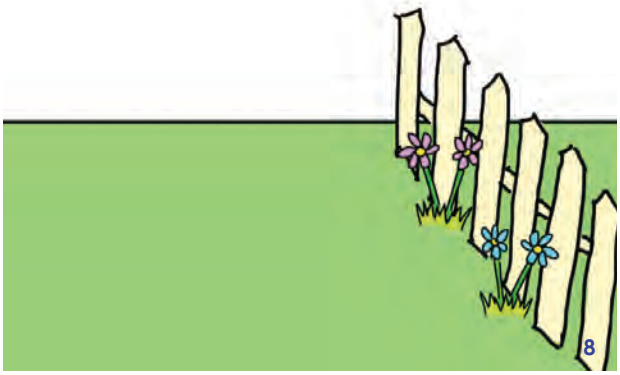
How does a Homeowner maintain it?

Regularly:

- Maintenance for a downspout draining to a lawn area is generally part of the typical yard maintenance.
- Mow the lawn in this area at the same time interval that the rest of the yard is mowed.
- Check for bare spots and reseed if needed.

Additional Information:

- A splash guard or small pile of rocks may be needed at the location where the water leaves the drain to slow the water down and prevent erosion.
- The downspout could be directed to a rain garden rather than the lawn, in which case the Rain Garden maintenance (page 9) should be followed.



How does a Homeowner maintain it?

Twice a year:

- Vegetation needs to be checked to make sure that it's healthy. Any bare spots need to be replanted.
- Check the inflow area to make sure that there isn't any sediment building up. Remove any accumulated sediment.
- Mulch should be re-spread when erosion is evident and be replenished as needed.

Annually:

- Perennial plants should be cut back if needed by species type and any dead vegetation should be removed at the end of the growing season.

Every Three Years:

- Apply mulch in the spring as needed to cover soil. Mulch should be 1-3 inches deep. Do not use mulch to "fill-in" the depression of the rain garden. That depression area is needed for stormwater management.

Additional Information:

- While vegetation is being established in the first few years, weeding may be required.
- If any plants die, they need to be replaced. Refer to the Post-Construction Stormwater Management Plan for what types of plants to use.
- During periods of extended drought, bioretention areas may require watering.
- Rain gardens should be checked after large rain storms to make sure that they are draining within 72 hours. If water remains in the rain garden longer than 72 hours, you could have mosquito problems, and should contact your county conservation district for guidance on fixing or replacing your rain garden.

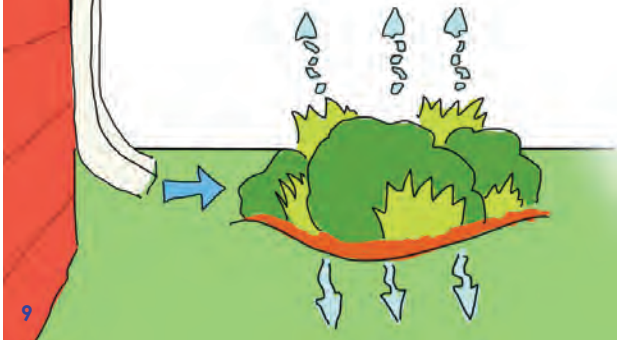
Rain Gardens & Small Bioretention

What is it?

A rain garden or bioretention area is a shallow depression that will hold runoff. It is planted with specially selected native vegetation that will filter and use runoff, as well as increase infiltration.

How does it work?

Rain gardens reduce the amount of runoff and remove pollutants. As the water pools in the depression, it can infiltrate deeper into the soil, or be used by the vegetation through evapotranspiration. The deep and dense root system of perennial vegetation increases the amount of water that infiltrate as compared to the shallow roots of lawn grasses. Even in a larger event during which the rain garden may overflow, runoff is still filtered through the vegetation removing pollutants.



Rain Barrels & Cisterns

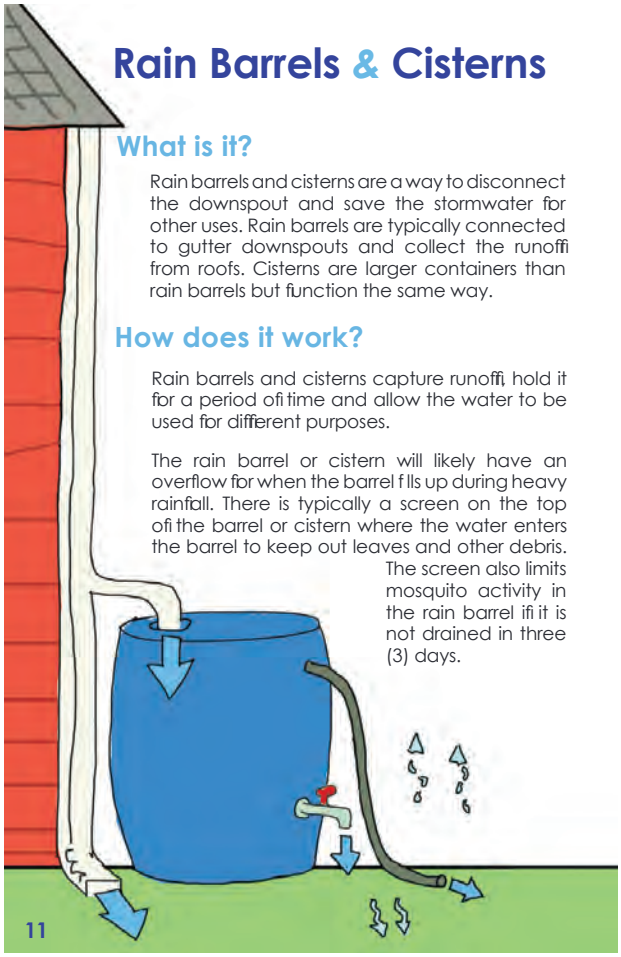
What is it?

Rain barrels and cisterns are a way to disconnect the downspout and save the stormwater for other uses. Rain barrels are typically connected to gutter downspouts and collect the runoff from roofs. Cisterns are larger containers than rain barrels but function the same way.

How does it work?

Rain barrels and cisterns capture runoff, hold it for a period of time and allow the water to be used for different purposes.

The rain barrel or cistern will likely have an overflow for when the barrel fills up during heavy rainfall. There is typically a screen on the top of the barrel or cistern where the water enters the barrel to keep out leaves and other debris. The screen also limits mosquito activity in the rain barrel if it is not drained in three (3) days.



How does a Homeowner maintain it?

After Rain Events:

- Clean the screen by removing any leaves that could block the flow of water into the barrel/cistern.
- Use the water in the barrel/cistern so that it's empty and ready to collect runoff from the next rain.

Annually:

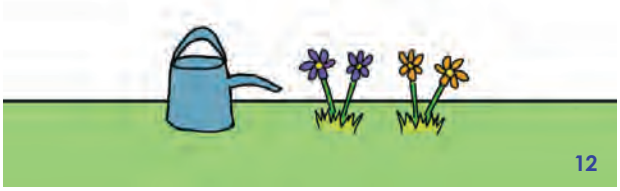
- Clean gutters to remove leaf debris that could clog the barrel/cistern.

❄ Special Winter Needs:

- In the fall, empty the rain barrel/cistern before the water could freeze.
- Rinse out the barrel/cistern to remove any accumulated sediment.
- Do not reconnect the barrel/cistern until spring. During the winter months, connect a piece of flexible gutter to the end of the downspout and direct the outlet to a grassy area of the yard.

Additional Information:

- **Rain barrels and cisterns are great (and economical!) water sources for watering plants.** The spigot can fill a watering can or be connected to a standard garden or irrigation hose.
- **Safety note!** The water in a rain barrel or cistern is **not safe for consumption** without prior treatment.



How does a Homeowner maintain it?

After storms with larger than 1 inch of rain:

- There is typically a screen where the downspout enters the dry well. Clean the screen by removing any leaves that could block the flow of water into the dry well.
- Inspect the sump for accumulation of sediment, trash, or any other material. Remove any material that is in the sump to prevent it from clogging the dry well.

Quarterly:

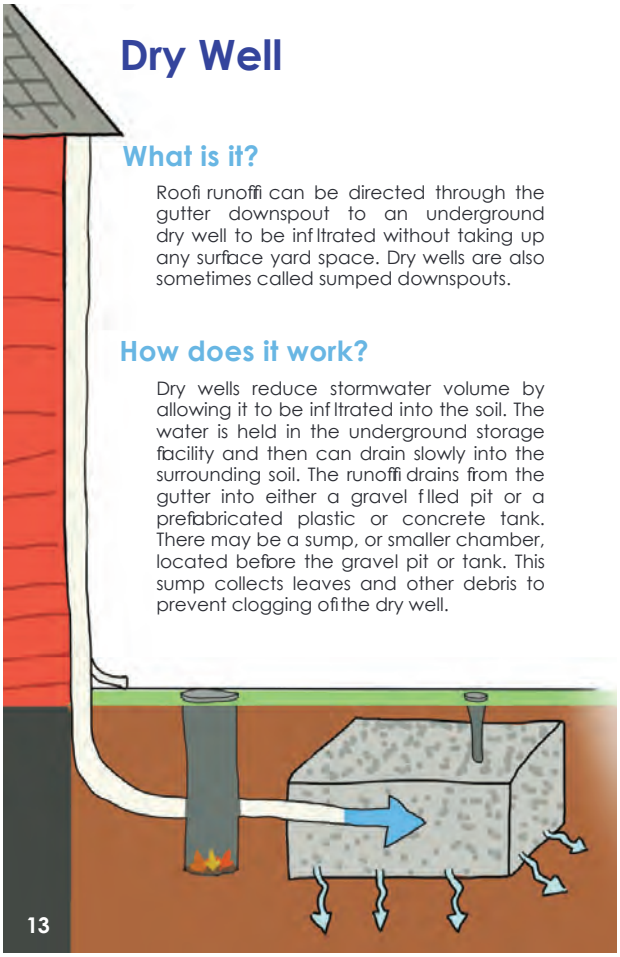
- There should be an above ground cap that allows access to the dry well. Four times a year, view down the access pipe to make sure that the dry well is not accumulating sediment, trash, or other material. Over time the accumulation of sediment or trash may be vacuumed or may require excavation. Contact your county conservation district for guidance on cleaning out your dry well.

Annually:

- Clean gutters to keep leave debris out of the sump and dry well.

Additional Information:

- After large rain events, check the access pipe to ensure that the dry well is draining within 72 hours. If the drain times are more than 72 hours, the dry well may need to be cleaned out or replaced. Contact your county conservation district for guidance on fixing or replacing your dry well.



Dry Well

What is it?

Roof runoff can be directed through the gutter downspout to an underground dry well to be infiltrated without taking up any surface yard space. Dry wells are also sometimes called sumped downspouts.

How does it work?

Dry wells reduce stormwater volume by allowing it to be infiltrated into the soil. The water is held in the underground storage facility and then can drain slowly into the surrounding soil. The runoff drains from the gutter into either a gravel filled pit or a prefabricated plastic or concrete tank. There may be a sump, or smaller chamber, located before the gravel pit or tank. This sump collects leaves and other debris to prevent clogging of the dry well.

Infiltration Trench

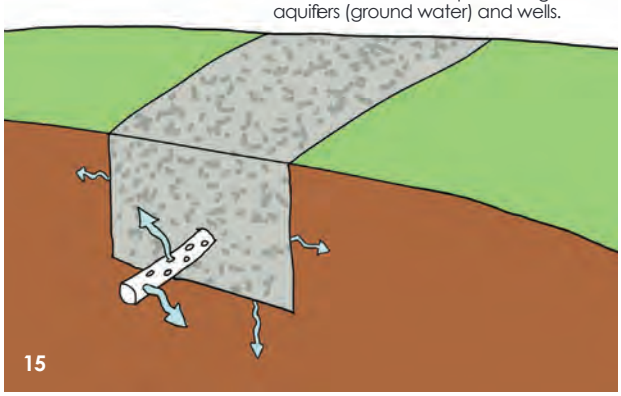
What is it?

Infiltration trenches are essentially leaky pipes in a stone-filled trench. Surface runoff or gutter downspouts can be directed to infiltration trenches.

How does it work?

An infiltration trench contains a perforated pipe in a stone trench. It can be thought of as the opposite of a French drain. In a French drain, water flows from the soil into a perforated pipe and away from the wet spot. For an infiltration trench, stormwater runoff is directed into a perforated pipe that is surrounded by gravel. The water then drains out of the perforated pipe into the trench.

During small rain events with a small amount of runoff, stormwater flows out of the pipe through the perforations into the gravel and then into the soil. During larger storms that produce more runoff, some stormwater will be stored in the stone trench, but water will also flow through the pipe to a larger BMP or SCM. Runoff that moves into the soil can help recharge aquifers (ground water) and wells.



How does a Homeowner maintain it?

Protection:

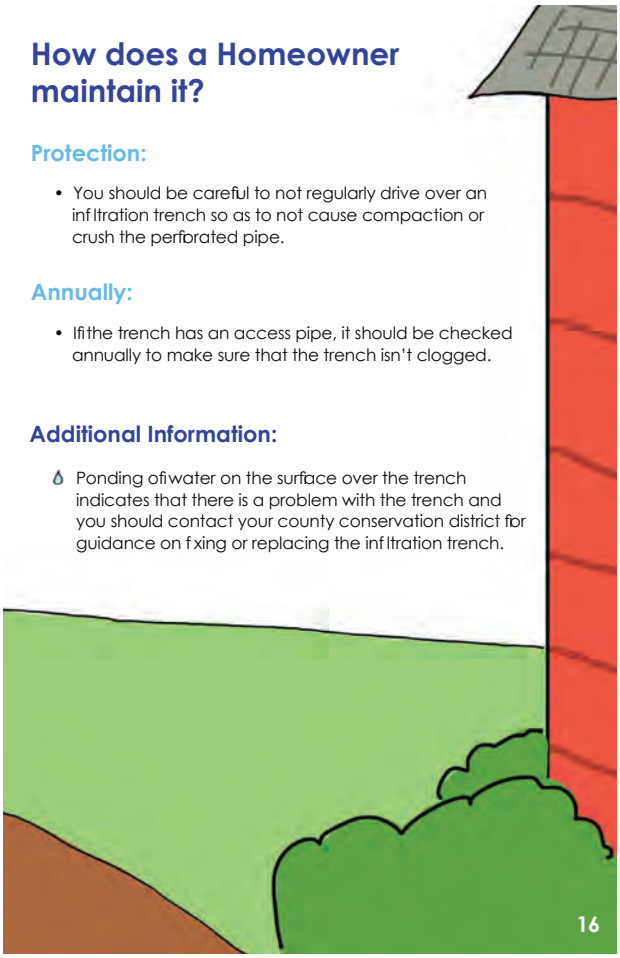
- You should be careful to not regularly drive over an infiltration trench so as to not cause compaction or crush the perforated pipe.

Annually:

- If the trench has an access pipe, it should be checked annually to make sure that the trench isn't clogged.

Additional Information:

- Ponding of water on the surface over the trench indicates that there is a problem with the trench and you should contact your county conservation district for guidance on fixing or replacing the infiltration trench.



How does a Homeowner maintain it?

Protection:

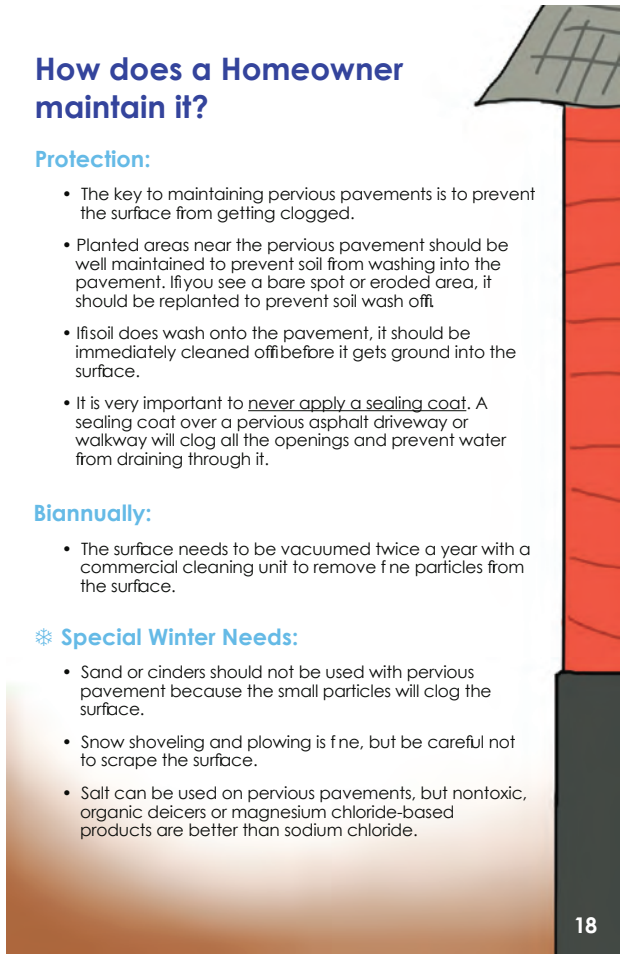
- The key to maintaining pervious pavements is to prevent the surface from getting clogged.
- Planted areas near the pervious pavement should be well maintained to prevent soil from washing into the pavement. If you see a bare spot or eroded area, it should be replanted to prevent soil wash off.
- If soil does wash onto the pavement, it should be immediately cleaned off before it gets ground into the surface.
- It is very important to never apply a sealing coat. A sealing coat over a pervious asphalt driveway or walkway will clog all the openings and prevent water from draining through it.

Biannually:

- The surface needs to be vacuumed twice a year with a commercial cleaning unit to remove fine particles from the surface.

❄ Special Winter Needs:

- Sand or cinders should not be used with pervious pavement because the small particles will clog the surface.
- Snow shoveling and plowing is fine, but be careful not to scrape the surface.
- Salt can be used on pervious pavements, but nontoxic, organic deicers or magnesium chloride-based products are better than sodium chloride.



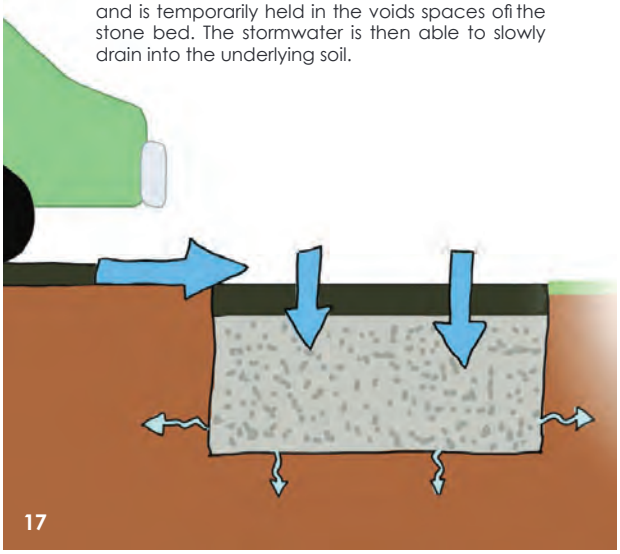
Pervious Pavements

What is it?

Pervious pavements are a modification to typical pavement that allow water to drain through the surface rather than run off it. Pervious pavements include porous asphalt or porous concrete which are poured over a gravel bed, or porous pavers on uncompacted soil.

How does it work?

Stormwater drains through the pervious surface and is temporarily held in the voids spaces of the stone bed. The stormwater is then able to slowly drain into the underlying soil.



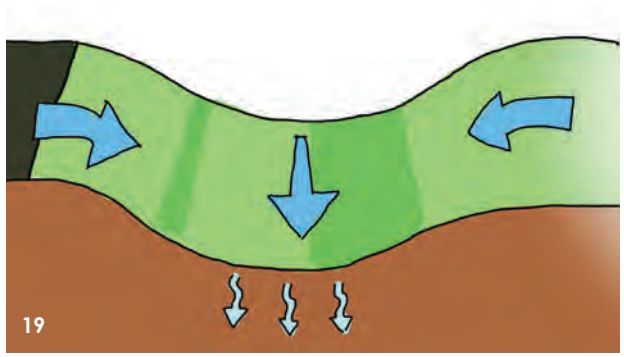
Vegetated Swale

What is it?

A vegetated swale is a wide, shallow channel, planted with grass or shrubs. A swale conveys runoff like a ditch, but a swale is much shallower and wider than a typical drainage ditch. If the swale is located on a steeper slope, rocks may be used to prevent erosion.

How does it work?

The wide, shallow design of swales allows runoff to flow more slowly than it would in a narrow, deep ditch or in a pipe. Vegetated swales slow runoff, promote infiltration, and filter pollutants and sediment in the process of conveying runoff. They can be used instead of conventional curb and gutter.



How does a Homeowner maintain it?



Regularly:

- If the vegetation in the swale is turfgrass, mow the swale when mowing the rest of the yard. Mow only when swale is dry to avoid rutting.
- After rain events look for erosion, damage to vegetation, or sediment accumulation. Reseed bare areas and remove sediment.

Twice a Year:

- If the vegetation in the swale is larger perennial shrubs and bushes, check to make sure that it's healthy. Any bare spots need to be replanted.
- Look for any sediment build-up. Remove any accumulated sediment.

Annually:

- Perennial plants should be cut back if needed by species type, and any dead vegetation should be removed at the end of the growing season.

Additional Information:

- While vegetation is being established in the first few years, weeding may be required.
- Watering may be necessary during dry periods.

❄ Special Winter Needs:

- After the spring melt, remove any accumulated antiskid material like sand. Replace any damaged vegetation.
- If driveway or sidewalk runoff is directed to the swale, use nontoxic, organic deicing agents or magnesium chloride-based liquid products (rather than sodium chloride-based salts).

INTRODUCTION TO MS4

- **MANDATED STORMWATER PROGRAM BY THE FEDERAL GOVERNMENT**
- **FOUNTAIN HILL MUST COMPLY OR FACE SEVERE FINES**

- MUNICIPAL SEPARATE STORM SEWER SYSTEMS → MS4
- OBJECTIVES
  - RESTORE IMPACTED WATER QUALITY IN SURFACE WATERS
  - PREVENT FUTURE IMPACTS TO WATER QUALITY

FOUNTAIN HILL BOROUGH MS4 PROGRAM

JASON SMITH
JILL SMITH, PE
HanoverEngineering

WHERE DOES STORMWATER RUNOFF GO IN OUR COMMUNITY?

- TRAVELS OVER LAND
  - PRIVATE PROPERTY
  - PUBLIC PROPERTY
- CARRIED THROUGH SWALES, DITCHES, PIPES, BASINS, ETC.
- DISCHARGES INTO LOCAL WETLANDS, PONDS, AND STREAMS
- SMALL UNNAMED STREAMS → LEHIGH AND DELAWARE RIVERS
- DELAWARE BAY

WHAT IS STORMWATER RUNOFF?



- OVERLAND FLOW FROM PRECIPITATION
  - RAINFALL
  - SNOW/MELT WATER

...WHICH DISCHARGES INTO WETLANDS, STREAMS, PONDS, AND LAKES

- QUANTITY AND QUALITY OF RUNOFF DEPEND ON LAND-USES
- NATURAL AREAS PRODUCE NO OR LITTLE RUNOFF
- TREES ARE THE BEST STORMWATER BMPS

STORMWATER POLLUTANTS

- SEDIMENT
- NUTRIENTS
- PATHOGENS
- ORGANICS
- OIL AND GREASE
- TRACE METALS
- TOXIC CHEMICALS
- CHLORIDES
- THERMAL IMPACTS
- SCOUR

WHY IS STORMWATER RUNOFF A PROBLEM?

- REASON 1: DECREASE IN QUALITY
  - POLLUTANTS FROM LAND AND EROSION
- REASON 2: INCREASE IN QUANTITY
  - INCREASE IN STREAM EROSION
    - NUTRIENTS
    - SEDIMENTS
    - ORGANICS
    - PESTICIDES, ETC.
  - STREAMBED SCOUR → IMPACTS TO AQUATIC ORGANISMS
  - FLOODING
  - LOSS OF RECHARGE – GROUNDWATER/BASEFLOW
- REASON 3: INVASIVE SPECIES

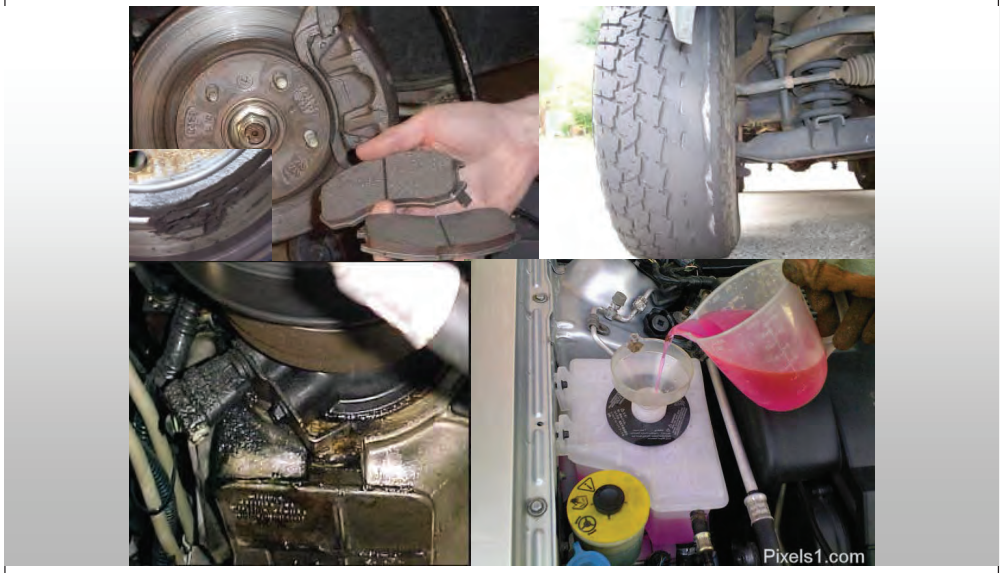





SON OF A GUN!
Anti-Fog
rain-x
rain-x


GREEN DEATH
CAUTION

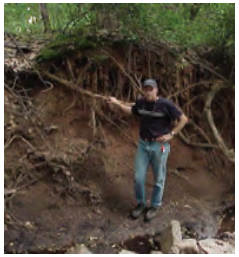



Pixels1.com











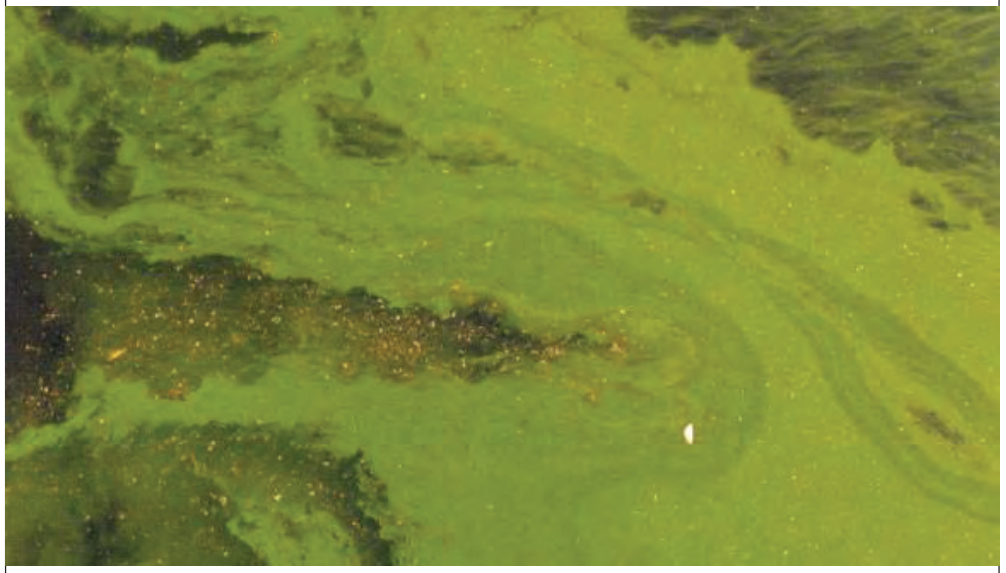




FLOODING




EROSION







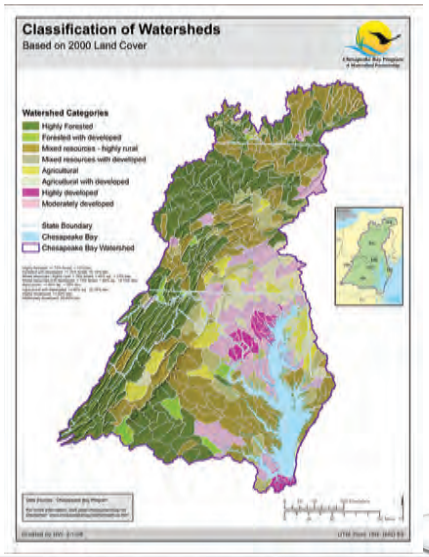
(SKYTRUTH, 2014)

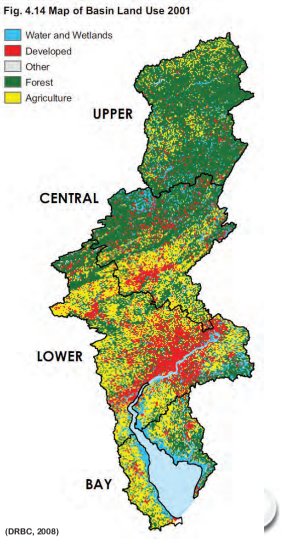
WHAT IS IMPACTED?

- FISH/FISHING
- AQUATIC ORGANISMS
- FLOODING
- AESTHETICS
- SHIPPING
- RECREATION
- DRINKING WATER
- PROCESS WATER
- SHELLFISH
- BIRDS
- MAMMALS
- HUMANS



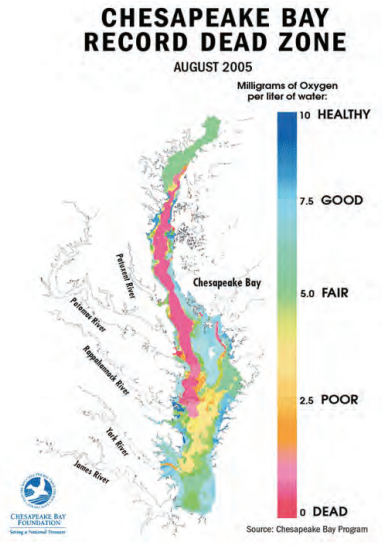








The "dead zone" that forms every summer in the Chesapeake Bay, stressing and even killing some fish, crabs and shellfish, is projected to be smaller than normal this year. (Glenn Fawcett, 2008)

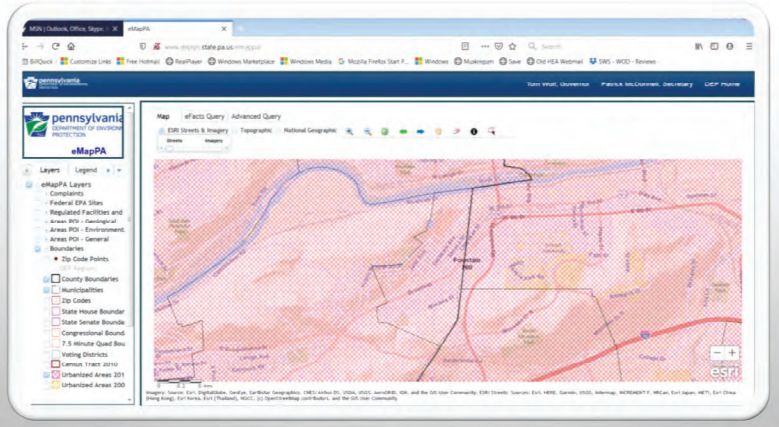


MS4 PROGRAM REQUIREMENTS

- MINIMUM CONTROL MEASURES (MCMS)
  - MCM#1 – PUBLIC EDUCATION AND OUTREACH
  - MCM#2 – PUBLIC INVOLVEMENT AND PARTICIPATION
  - MCM#3 – ILLICIT DISCHARGE MONITORING
  - MCM#4 – CONSTRUCTION SITE STORMWATER RUNOFF CONTROL
  - MCM#5 – POST-CONSTRUCTION STORMWATER MANAGEMENT
  - MCM#6 – GOOD HOUSEKEEPING /POLLUTION PREVENTION
- NEW → POLLUTANT REDUCTION PLAN (PRP)

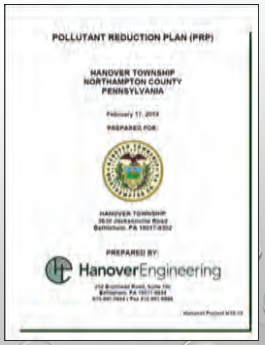
MS4 PROGRAM REQUIREMENTS

- MINIMUM CONTROL MEASURES (MCMS)
  - THINGS THAT THE MUNICIPALITIES ARE REQUIRED TO DO WITHIN URBANIZED AREAS TO IMPROVE STORMWATER QUALITY AND DECREASE IMPACTS RELATED TO STORMWATER RUNOFF
- URBANIZED AREAS (UAS)
  - AREAS WITHIN THE MUNICIPALITY WITH HIGH POPULATION DENSITY, AS BASED ON CURRENT CENSUS DATA
  - FOUNTAIN HILL BOROUGH IS 100% URBANIZED AREA



WHAT IS A POLLUTANT REDUCTION PLAN

- FIRST……..IT'S A REQUIREMENT BY USEPA, ADMINISTERED BY PADEP
- REQUIRES A REDUCTION IN POLLUTANTS FOUND IN STORMWATER
  - ONLY WHERE STREAMS ARE IMPAIRED BY A POLLUTANT(S), AS IDENTIFIED BY PADEP
  - CURRENTLY REQUIRES A 10% REDUCTION IN SEDIMENT/SILTATION, WHERE APPLICABLE
    - ONLY PORTIONS OF URBANIZED AREA WHERE BOROUGH OWNS OR MANAGES STORMWATER FACILITIES
    - FOCUSES ON BOROUGH'S STORMWATER OUTFALLS TO WATERS AND WETLANDS
    - INCLUDES OUTFALLS WITHIN FIVE (5) MILES UPSTREAM OF IMPAIRED STREAM SEGMENTS


POLLUTANT REDUCTION PLAN (PRP)

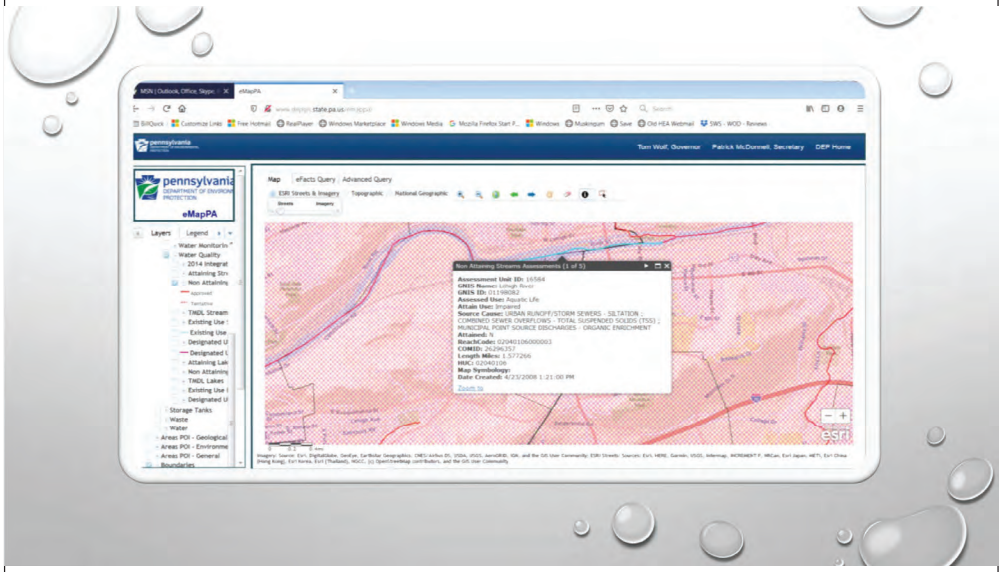
HANOVER TOWNSHIP
NORTHAMPTON COUNTY
PENNSYLVANIA

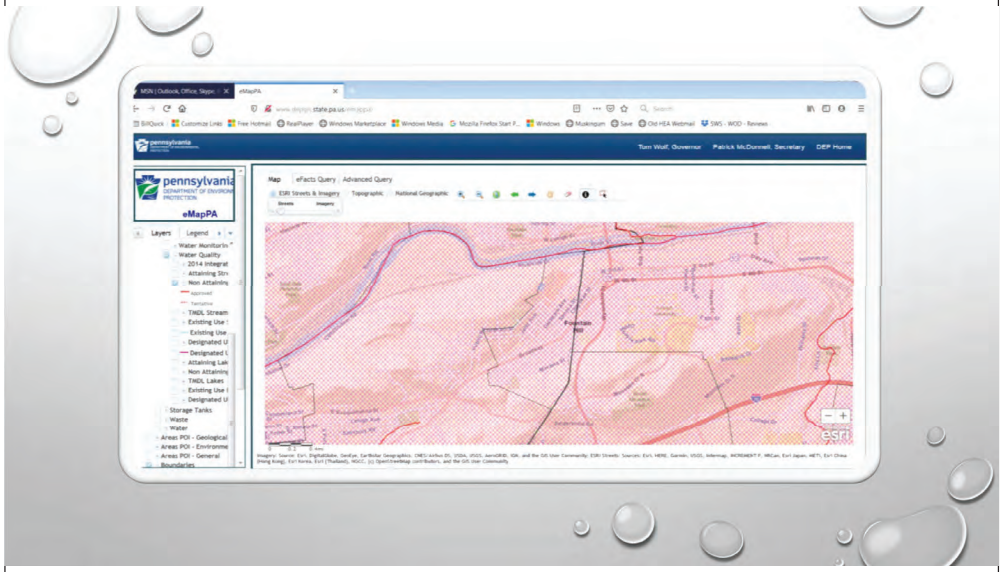
February 17, 2019

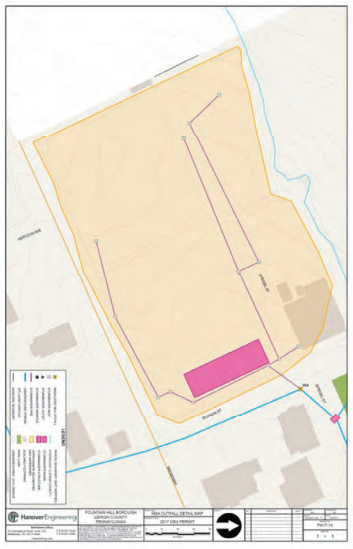
PREPARED FOR:

PREPARED BY:

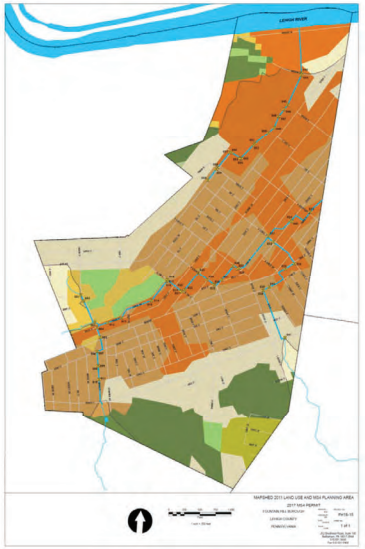
HanoverEngineering


eMapPA
Non Attaining Streams Assessments (1 of 3)
Assessment Unit ID: 16584
GNIS Name: Lehigh River
GNIS ID: 01198062
Assessed Uses: Aquatic Life
Attain Use: Impaired
Source Causes: URBAN RUNOFF/STORM SEWERS - SILTATION ; COMBINED SEWER OVERFLOWS - TOTAL SUSPENDED SOLIDS (TSS) ; MUNICIPAL POINT SOURCE DISCHARGES - ORGANIC ENRICHMENT
Attained: N
ReachCode: 02040106000003
COMID: 26296357
Length Miles: 1.577266
HUC: 02040106
Map Symbology:
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eMapPA

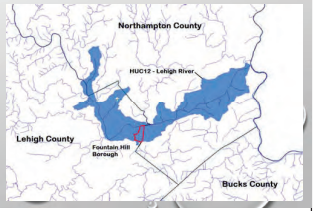

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LEHIGH RIVER
LEGEND
HanoverEngineering



DEVELOPMENT OF POLLUTANT REDUCTION PLAN

- QUALIFY STORMWATER OUTLETS TO BE PART OF PLAN
  - AGAIN…..BASED ON SEDIMENT/SILTATION IMPAIRMENT OF STREAMS
  - TOTAL DRAINAGE AREA IS KNOWN AS THE "PLANNING AREA" FOR THE PLAN
    - FURTHER BROKEN DOWN BY HUC12 WATERSHEDS → LARGER STREAM WATERSHEDS
- CALCULATE THE TOTAL EXISTING SEDIMENT LOAD FOR THE PLANNING AREA
  - BASED ON LAND USES AND RESPECTIVE SEDIMENT LOADING COEFFICIENTS
- ACCOUNT FOR SEDIMENT REDUCTIONS BY QUALIFYING EXISTING STORMWATER FACILITIES
- IDENTIFY POTENTIAL WAYS TO REDUCE SEDIMENT
  - RETROFITS OF EXISTING CONVENTIONAL STORMWATER BMPS
  - NEW STORMWATER BMPS
- CALCULATE REDUCTIONS USING BMP REDUCTION EFFICIENCY VALUES
- PRIORITIZE BMP SELECTION TO BEST MEET THE 10% REDUCTION GOAL
- IMPLEMENT BMPS DURING 5-YEAR PERMIT CYCLE (2018-2023)



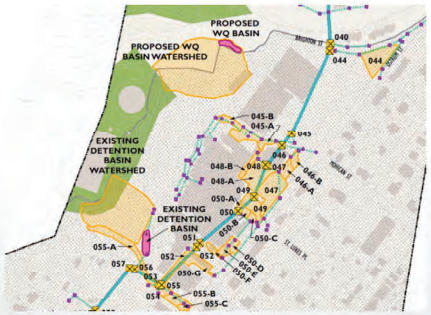


Table 2. MS4 Requirements Table for the Borough of Fountain Hill

MS4 Name	NPDES ID	Individual Permit Required	Reason	Impaired Downstream Waters Names	Requirement(s)	Other Cause(s) of Impairment
Fountain Hill Borough	PAG132250	No	N/A	Lehigh River	Appendix C-PCB(5), Appendix E-Organic Enrichment/Low D.O., Siltation, Susp. Solids(5)	None

Table 1. Landuse Areas within the MS4 Planning Area for Fountain Hill Borough

Land Use Type	Area (acres)
Low Density Mixed	10.8
High Density Mixed	111.8
Mixed Forest	0.2
Deciduous Forest	46.3
Low Density Residential	83.1
Medium Density Residential	10.7
High Density Residential	148.4
Open Land	13.1
TOTAL PLANNING AREA	424.4

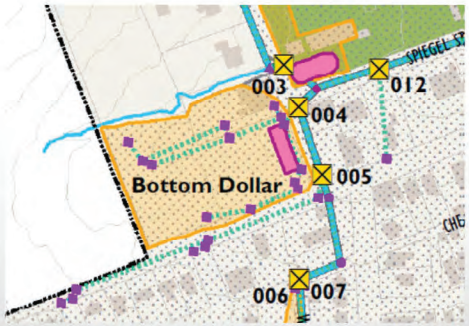


Table 3. Existing Stormwater BMPs in the Planning Area

Facility/NPDES Permit Number	BMP Type	Date of Installation	Coordinates	Treatment Area (ac)	Efficiency	Sediment Load Reduction (lbs/yr)
Bottom Dollar PAG02-0039-10-012	Sand Filter	September 2011	40.599599°N -75.402650°W	2.35	0.95	131.1

Table 4. MapShed Sediment Land Use Loading Rates and Calculated Pollutant Loads – Lehigh River Watershed

Land Cover	Loading Rate (lbs/ac/yr)	Area (ac)	Sediment Load (lbs/yr)
Forest	26.2	46.4	1,216.7
Open Land	378.0	13.1	4,951.8
Low Density Mixed	17.9	10.8	192.9
High Density Mixed	78.6	111.8	8,784.9
Low Density Residential	17.9	83.1	1,484.1
Medium Density Residential	78.6	10.7	840.7
High Density Residential	78.6	148.4	11,663.0
TOTAL		**424.4**	**29,134.0**



Table 5. Pollutant Load Reduction Requirements for the MS4 Planning Area within Fountain Hill Borough

Planning Area Name	Total Acres	Land Use Sediment Load (lbs)	Streambank Sediment Load (lbs)	Total Sediment Load (lbs)
UNT to Lehigh River	424.4	29,134.0	0	29,134.0
Existing BMP Load Reduction	2.4	131.1	0	131.1
Final Existing Load				29,002.9
Required 10% Reduction				2,900.3

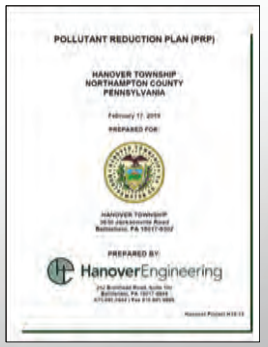
Table 6. Summary of Proposed BMPs in the Planning Area of Fountain Hill Borough

BMP ID	BMP Type	Sediment Load Reduction (lbs/yr)	Percent of Required Reduction	Landowner	Installation Responsibility	Funding Mechanism	Operation & Maintenance Responsibility	Operation & Maintenance Activities/Schedule
Inlet 001-B	Inlet Filter Bag	2.1	0.05%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 001-D	Inlet Filter Bag	1.8	0.05%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 002	Inlet Filter Bag	2.8	0.07%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 006	Inlet Filter Bag	28.0	0.73%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 011	Inlet Filter Bag	20.4	0.53%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 016	Inlet Filter Bag	34.2	0.89%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 017-A	Inlet Filter Bag	6.1	0.16%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 017-B	Inlet Filter Bag	10.1	0.26%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 017-C	Inlet Filter Bag	13.9	0.36%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 020	Inlet Filter Bag	18.1	0.47%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 021-A	Inlet Filter Bag	7.8	0.20%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 021-B	Inlet Filter Bag	6.9	0.18%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 021-C	Inlet Filter Bag	3.2	0.08%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 021-D	Inlet Filter Bag	1.0	0.03%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 021-E	Inlet Filter Bag	16.6	0.43%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 021-F	Inlet Filter Bag	1.5	0.04%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 021-G	Inlet Filter Bag	2.8	0.07%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 022	Inlet Filter Bag	27.1	0.71%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 030	Inlet Filter Bag	4.1	0.11%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 040	Inlet Filter Bag	6.6	0.17%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 043	Inlet Filter Bag	20.7	0.54%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 045-A	Inlet Filter Bag	4.6	0.12%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 045-B	Inlet Filter Bag	14.0	0.36%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 045-C	Inlet Filter Bag	7.2	0.19%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 046-A	Inlet Filter Bag	7.7	0.20%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 046-B	Inlet Filter Bag	5.3	0.14%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 047	Inlet Filter Bag	31.8	0.83%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet	Inlet Filter Bag	26.1	0.68%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 048-B	Inlet Filter Bag	6.8	0.18%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 049	Inlet Filter Bag	14.7	0.38%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 050-A	Inlet Filter Bag	1.7	0.04%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 050-B	Inlet Filter Bag	4.2	0.11%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 050-C	Inlet Filter Bag	3.1	0.08%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 050-D	Inlet Filter Bag	6.2	0.16%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 050-E	Inlet Filter Bag	5.1	0.13%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 050-F	Inlet Filter Bag	4.0	0.11%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 050-G	Inlet Filter Bag	13.1	0.34%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 052	Inlet Filter Bag	10.0	0.26%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 055-A	Inlet Filter Bag	21.7	0.57%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 055-B	Inlet Filter Bag	8.0	0.21%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events
Inlet 055-C	Inlet Filter Bag	4.0	0.11%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Clean-out with vac truck - Minimum quarterly/as needed following runoff events

BMP ID	Area (AC)	Land Use Code	Land Use	Coeff (lbs/ac/yr)	Existing Sediment Load - Landuse (lbs/yr)	Existing Total Sediment Load	BMP Type	Sediment Load Reduction Coeff (percent)	Sediment Load Reduction (lbs/yr)
001-B	0.14415732	17	Low Density Residential	17.9	2.6	2.6	Inlet Filter Bag	0.8	2.1
001-D	0.04974017	2	Low Density Mixed	17.9	0.9	2.3	Inlet Filter Bag	0.8	1.8
001-D	0.0770165	17	Low Density Residential	17.9	1.4				
002	0.1929254	2	Low Density Mixed	17.9	3.5	3.5	Inlet Filter Bag	0.8	2.8
006	0.44605617	19	High Density Residential	78.6	35.1	35.1	Inlet Filter Bag	0.8	28.0
011	0.30843225	19	High Density Residential	78.6	24.2	25.5	Inlet Filter Bag	0.8	20.4
011	0.07208893	17	Low Density Residential	17.9	1.3				
016	0.15300576	3	High Density Mixed	78.6	12.0	42.8	Inlet Filter Bag	0.8	34.2
016	0.39101664	19	High Density Residential	78.6	30.7				
017-A	0.02961427	19	High Density Residential	78.6	2.3	7.6	Inlet Filter Bag	0.8	6.1
017-A	0.29339538	2	Low Density Mixed	17.9	5.3				
017-B	0.15257227	19	High Density Residential	78.6	12.0	12.6	Inlet Filter Bag	0.8	10.1
017-B	0.0327577	2	Low Density Mixed	17.9	0.6				
017-C	0.17703622	19	High Density Residential	78.6	13.9	17.3	Inlet Filter Bag	0.8	13.9
017-C	0.19100915	2	Low Density Mixed	17.9	3.4				
020	0.22990048	3	High Density Mixed	78.6	18.1	22.7	Inlet Filter Bag	0.8	18.1
020	0.05864632	19	High Density Residential	78.6	4.6				
021-A	0.12466887	3	High Density Mixed	78.6	9.8	9.8	Inlet Filter Bag	0.8	7.8
021-B	0.10918699	3	High Density Mixed	78.6	8.6	8.6	Inlet Filter Bag	0.8	6.9
021-C	0.05165408	3	High Density Mixed	78.6	4.1	4.1	Inlet Filter Bag	0.8	3.2
021-D	0.01588792	3	High Density Mixed	78.6	1.2	1.2	Inlet Filter Bag	0.8	1.0
021-E	0.20684731	3	High Density Mixed	78.6	16.3	20.8	Inlet Filter Bag	0.8	16.6
021-E	0.25376426	17	Low Density Residential	17.9	4.5				
021-F	0.10713302	17	Low Density Residential	17.9	1.9	1.9	Inlet Filter Bag	0.8	1.5
021-G	0.01656762	3	High Density Mixed	78.6	1.3	3.5	Inlet Filter Bag	0.8	2.8
021-G	0.12197966	17	Low Density Residential	17.9	2.2				
022	0.15467749	3	High Density Mixed	78.6	12.2	33.8	Inlet Filter Bag	0.8	27.1

NEXT STEPS

- DEVELOP FUNDING SOURCES
  - GRANT FUNDS
  - STORMWATER FEE
- DEVELOP PLANS FOR RECOMMENDED BMPs
- IMPLEMENT BMPs
- MONITOR BMPs
- REPORT ON BMPs → REMOVALS


POLLUTANT REDUCTION PLAN (PRP)

HANOVER TOWNSHIP
NORTHAMPTON COUNTY
PENNSYLVANIA

February 11, 2019

PREPARED FOR:

HANOVER TOWNSHIP
3630 Jacksonville Road
Bethlehem, PA 18017-9302

PREPARED BY:

HanoverEngineering

Borough Parking Lot and Downspouts	Bioretention with Underdrain	90.8	2.37%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Monthly, perform trash removal, inspect outlet for obstructions/clogging, and inspect inlet grates. Quarterly, street sweep parking lot. Annually, skim sand media and pump oil and grit from sediment chamber (once 50% full). Every two to three years, replace sand media (or as needed).
Existing Street Luke's Basin	Bioretention Basin	131.9	3.44%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Annually, cut back perennial plants. Twice per year, check vegetation for condition, remove woody vegetation, remove accumulated sediments.
Jetes Avenue Basin (Craig Street)	Bioretention Basin	348.4	9.09%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Annually, cut back perennial plants. Twice per year, check vegetation for condition, remove woody vegetation, remove accumulated sediments.
Park Bioretention	Bioretention Swale	32.9	0.86%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Annually, cut back perennial plants. Twice per year, check vegetation for condition, remove woody vegetation, remove accumulated sediments.
Proposed Basin	Bioretention Basin	1390.0	36.27%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Annually, cut back perennial plants. Twice per year, check vegetation for condition, remove woody vegetation, remove accumulated sediments.
Proposed Street Luke's Basin	Bioretention Basin	234.7	6.12%	St. Luke's	Borough	Stormwater Fee/Grant Funds	St. Luke's	Annually, cut back perennial plants. Twice per year, check vegetation for condition, remove woody vegetation, remove accumulated sediments.
Rain Garden - Pool House	Rain Garden	9.3	0.24%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Annually, cut back perennial plants. Twice per year, check vegetation for condition, check inflow and remove sediments, re-mulch base spots. Every three years, reapply mulch.
Stanley Avenue Park Swale	Bioretention with Underdrain	101.5	2.65%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Annually, cut back perennial plants. Twice per year, check vegetation for condition, remove woody vegetation, remove accumulated sediments.
Warren Street Basin	Bioretention Basin	981.2	25.60%	Private	Borough	Stormwater Fee/Grant Funds	Private	Annually, cut back perennial plants. Twice per year, check vegetation for condition, remove woody vegetation, remove accumulated sediments.
Proposed Street Tree Plantings	Street Tree Planting	76.6	2.00%	Borough	Borough	Stormwater Fee/Grant Funds	Borough	Inspect annually and prune as needed. Replace as needed.
TOTALS		3,832.4	100.00%					



MAPPING OF IMPERVIOUS COVERAGE

- RECENT AERIALS
- IMPERVIOUS
  - ROOFTOPS
  - PAVEMENT
  - PACKED GRAVEL
  - WALKS/SIDEWALKS
- PERVIOUS
  - GRASS
  - LOOSE GRAVEL
  - GARDENS

STORMWATER FEE

- BOROUGH MUST HAVE OR CREATE AN AUTHORITY BOARD
- STORMWATER FEE IS ESTABLISHED BY RESOLUTION
- FEES ARE BASED ON STORMWATER PROGRAM COSTS
- FEES COLLECTED MUST BE USED ON STORMWATER MANAGEMENT, ONLY
- FEES ARE BASED ON IMPERVIOUS COVERAGE AMOUNT, AS DETERMINED BY USING AERIAL PHOTOGRAPHY AND GROUND INSPECTIONS
- FEES APPLY TO ALL ENTITIES, INCLUDING NON-PROFITS AND THE BOROUGH PROPERTIES
- FEES LIKELY TO RANGE FROM $40 TO $100 PER RESIDENCE, ANNUALLY, WITH HIGHER FEES FOR LARGER DEVELOPED PROPERTIES WITH HIGHER IMPERVIOUS COVERAGES
- CREDIT FOR UP TO 50% OF CALCULATED ANNUAL FEE MAY BE GRANTED WITH PROOF OF FUNCTIONING, QUALIFYING ON-LOT STORMWATER BMPs

TYPICAL STORMWATER BMPs

- LARGER DEVELOPMENT
  - WATER QUALITY BASINS
  - CONSTRUCTED WETLANDS
  - INFILTRATION PRACTICES
  - RAIN GARDENS
  - BIORETENTION
  - PERVIOUS PAVEMENT
  - WATER QUALITY SWALES
  - FILTERS/HYDRODYNAMIC STRUCTURES
  - FILTER STRIPS
  - GREEN ROOFS
  - TREE CANOPY COVER
  - OTHERS
- SMALLER DEVELOPMENT (“HOMEOWNER”)
  - PERVIOUS PAVEMENT
  - RAIN GARDENS/BIORETENTION
  - DRY WELLS/SEEPAGE PITS
  - RAIN BARRELS
  - DOWNSPOUT DISCONNECTION
  - TREE CANOPY COVER
  - OTHERS

RESOLUTION

- ESTABLISHES BASE UNIT FEE → $20 PER 500 SQUARE FEET OF IMPERVIOUS COVERAGE
- PROVIDES MEANS FOR APPEAL FOR MISCALCULATION (E.G., LOOSE GRAVEL SHOWN AS IMPERVIOUS)
- PROVIDES MEANS FOR CREDIT FOR QUALIFYING ON-LOT STORMWATER BMPs
  - MAXIUMUM OF 50% OF CALCULATED FEE
  - REMAINING 50% IS NECESSARY FOR ANNUAL MONITORING AND PROGRAM ADMINISTRATION
  - BMPs MUST MEET REQUIREMENTS OF RESOLUTION → CONSISTENT WITH PADEP REQUIREMENTS
    - PROOF OF DESIGN AND FUNCTIONALITY MUST BE PROVIDED BY THE APPLICANT
    - SELF-REPORTING INSPECTIONS, ANNUALLY, WITH RANDOM CHECKS BY THE BOROUGH

SAMPLE FEE CALCULATION

- RESIDENTIAL PROPERTY WITH 1,200 SQUARE FEET OF IMPERVIOUS COVERAGE (BY ROOF AND ASPHALT DRIVEWAY)
  - BASE UNIT = 500 SQUARE FEET
    - ROUND TO NEAREST TENTH OF BASE UNIT
  - STORMWATER FEE = $20/BASE UNIT
  - THEREFORE, 1,200 SQUARE FEET / 500 SQUARE FEET = 2.4 BASE UNITS
  - 2.4 BASE UNITS X $20/BASE UNIT = $48 TOTAL STORMWATER FEE
- OPTIONAL CREDIT
  - IMPLEMENTATION OF QUALIFYING STORMWATER BMPs
  - MAXIMUM CREDIT IS 50% OF TOTAL STORMWATER FEE (OR $24 FOR ABOVE EXAMPLE)

BMP CREDIT LIST

Facility Credit Category	Facility Credit Rate*	Qualifying Stormwater Management BMPs
Peak Runoff Rate (Flood) Controls	25%	Constructed Wetland
		Wet Pond / Retention Basin
		Dry Extended Detention Basin
		Special Detention Areas (parking lots/roof)
Runoff Volume Controls/Green Infrastructure	50%	Pervious Pavement with Infiltration Bed
		Infiltration Basin
		Rain Garden / Bioretention
		Subsurface Infiltration Bed
		Green Roof
		Infiltration Trench / Tree Infiltration Trench
		Runoff Capture & Reuse – Rain Barrel**
		Dry Well / Seepage Pit
		Infiltration Berm & Retentive Grading
		Impervious Area Removal with Soil Restoration and Vegetation
		Deep Stormwater Injection Well
Water Quality Treatment	25%	Constructed Wetland
		Constructed Filter
		Vegetated Swale
		Vegetated Filter Strip
		Proprietary Water Quality Filters & Hydrodynamic Devices
		Tree Trench with Soil Restoration or Amendment
Non-Structural Controls	15%	Tree Canopy Cover
		Downspout Disconnection
NPDES Industrial Stormwater Permitted Sites	15%	Facilities with an active, fully-compliant NPDES Permit from PADEP
Maximum Credit Applied to Annual Charge	**50%**	

* Actual Credit is based on percentage of Impervious Area (IA) being treated

** Rain Barrels – maximum of four (4) 55-gallon barrels per acre, with maximum treatment area of 100 square feet per rain barrel, and must fully drain automatically within five (5) days and have a minimum discharge infiltration area of 20 square feet, or 5:1 loading ratio, per rain barrel. A credit of $2 per rain barrel shall be applied to the total Annual Charge.

SAMPLE CREDIT CALCULATION

- SCENARIO #2
  - RESIDENTIAL PROPERTY WITH 900 SQUARE FEET OF ROOFTOP AND 300 SQUARE FEET OF ASPHALT DRIVEWAY – 2.4 BASE UNITS – $48 TOTAL STORMWATER FEE
    - ONE RAIN GARDEN TREATS RUNOFF FROM 450 SQUARE FEET OF ROOFTOP
      - RAIN GARDENS PROVIDE TREATMENT WITH A 50% FACILITY CREDIT RATE
      - 450 SQUARE FEET/500 SQUARE FEET PER BASE UNIT = 0.9 BASE UNITS X $20/BASE UNIT X 50% FACILITY CREDIT RATE = $9 CREDIT
    - TWO RAIN BARRELS TREAT RUNOFF FROM 450 SQUARE FEET OF ROOFTOP
      - EACH RAIN BARREL CAN ACTUALLY ONLY TREAT 100 SQUARE FEET, WHICH EQUATES TO $2 CREDIT PER RAIN BARREL = $4 CREDIT
    - ONE VEGETATED SWALE TREATS RUNOFF FROM 300 SQUARE FEET OF DRIVEWAY
      - VEGETATED SWALES PROVIDE TREATMENT WITH A 25% FACILITY CREDIT RATE
      - 300 SQUARE FEET/500 SQUARE FEET PER BASE UNIT = 0.6 BASE UNITS X $20/BASE UNIT X 25% FACILITY CREDIT RATE = $4 CREDIT
  - FINAL STORMWATER FEE = $31 ($48 RAW FEE - $17 TOTAL CREDIT)

SAMPLE CREDIT CALCULATION

- SCENARIO #1
  - RESIDENTIAL PROPERTY WITH 900 SQUARE FEET OF ROOFTOP AND 300 SQUARE FEET OF ASPHALT DRIVEWAY – 2.4 BASE UNITS - $48 TOTAL STORMWATER FEE
    - ONE RAIN GARDEN (50% FACILITY CREDIT RATE) TREATS RUNOFF FROM 900 SQUARE FEET OF ROOFTOP
      - RAIN GARDENS PROVIDE TREATMENT WITH A 50% FACILITY CREDIT RATE
      - 900 SQUARE FEET/500 SQUARE FEET PER BASE UNIT = 1.8 BASE UNITS X $20/BASE UNIT X 50% FACILITY CREDIT RATE = $18 CREDIT
  - FINAL STORMWATER FEE = $30 ($48 RAW FEE - $18 CREDIT)

ANTICIPATED SCHEDULE

- FINALIZE CREDIT POLICY - TBD
- HOLD INFORMATIONAL MEETING FOR CREDIT POLICY - TBD
- STORMWATER UTILITY BILLS SENT OUT – BY APRIL 1, 2020
- FEES DUE – BY JUNE 1, 2020
- CREDITS
  - EXISTING QUALIFYING FACILITIES – WILL BE CONSIDERED FOR 2020
  - NEW FACILITIES – WILL TAKE EFFECT THE YEAR FOLLOWING APPLICATION APPROVAL

Good Housekeeping Practices for... AUTO MAINTENANCE, REPAIR, and FUELING OPERATIONS

Control Stormwater Runoff Pollution... Protect the Delaware Estuary and its Streams and Rivers

Be a **Clean Water Partner** by preventing stormwater runoff pollution from your site. Controlling stormwater pollution can be simple and inexpensive. Preventing stormwater pollution from occurring is certainly less costly than cleaning up water pollution after the fact. Preventive measures include common sense good housekeeping practices for the outdoors like sweeping regularly to remove silt, sand, and litter from your parking lot, covering dumpsters, and controlling salvage, scrap and wastes stored outside. Clean up or treatment to remove pollutants already in stormwater runoff or stream water are more costly, and generally less effective.



A message from participating business owners...

"Gas stations are a part of most American's lives and we are proud to do our part to keep our site as clean as possible while providing high quality and efficient service for our customers."
— Brian and Karl Bishara, Roxborough Getty

"Using best management practices to prevent stormwater pollution is a routine part of our business; it makes good business sense and helps keep local streams and the Delaware River clean."
— Tracy Beers, Philadelphia Midas

CLEAN WATER PARTNERS

...ONLY RAIN... DOWN THE STORM DRAIN

Good Housekeeping Best Management Practices (BMPs) for Auto Maintenance, Repair, and Fueling Operations



Funded by:

- Delaware Estuary Program
- Delaware River Port Authority of Pennsylvania and New Jersey
- The Laffey-McHugh Foundation
- National Oceanic and Atmospheric Administration
- Partnership for the Delaware Estuary
- Pennsylvania Coastal Zone Management Program
- Pennsylvania Department of Environmental Protection
- Philadelphia Water Department
- U.S. Environmental Protection Agency
- The William Penn Foundation

Employ these Good Housekeeping BMPs to help prevent stormwater runoff pollution in local streams, nearby rivers and the Delaware Estuary.

- ***Use Drip Pans and Trays*** under vehicles when there is a chance of fluids leaking and whenever liquids are transferred.
- ***Clean up small spills immediately*** and ensure employees know where spill cleanup supplies are stored and how to seal storm drains to contain spills.
- ***Sweep the shop floor rather than hose it down.*** Do not sweep or blow wastes into storm drains, streets and streams; pick up swept wastes and dispose of them properly in a trash can. When cleaning bays, shop floor, equipment, and vehicles, limit wastewater production by minimizing your use of water and liquid cleaners; instead, spot clean using absorbents, squeegees, and rags. Manage wastewater generated from washing activities in accordance with wastewater disposal codes (dispose in designated locations) and prevent wastewater from flowing out-of-doors into storm drains, streets and streams.
- ***Properly Dispose of All Wastes.*** **Non-hazardous** and non-liquid solid wastes should be containerized in secured bags prior to disposal in dumpsters. Dumpster lids should fit securely to prevent dispersal of litter by animals or wind. Require trash haulers to pick up litter that disperses during their transfer. Regularly inspect waste storage areas for litter as well as container condition. **Hazardous and other regulated wastes** should be picked up by licensed hazardous waste hauling/recycling contractors for disposal or recycling (including scrap parts, tires, oil, anti-freeze, solvents and batteries).
- ***Sweep the sidewalk and parking lot*** outside your front and back doors to control litter and debris, cigarette butts, and packaging waste from customers and deliveries. Properly dispose of these wastes in a trash can or dumpster.
- ***Conveniently locate trash cans and cigarette receptacles*** for your customers' use to encourage proper disposal of wastes. Trash cans should be covered with securely fitting lids.
- ***Routinely Inspect Containment and Control Structures (including on-site stormwater facilities) and Schedule Cleaning and Maintenance as Needed.*** Stormwater facilities (such as storm drains, oil-water separators, and stormwater retention basins) should be inspected regularly to ensure they are functioning properly, which means they should allow stormwater runoff to enter and discharge, but not release, oil, grease, dirt, debris or other pollutants into storm drains, streets and streams.
- ***Keep Material Safety Data Sheets (MSDSs) on site at all times.*** Operations that clean, repair and maintain vehicles typically use regulated products and chemicals, including hazardous and toxic materials. Know which products used on site are hazardous and ensure the MSDS for each regulated product is accessible to employees. MSDSs provide useful information about product contents, hazards, and cleanup guidance.
- ***Eliminate Illicit Drain Connections.*** Plumbing from indoor sink drains should not discharge directly into the storm drainage system, instead, indoor drains should be plumbed according to local sanitary code. Indoor drains should discharge to a wastewater treatment facility or sewage system. Illicit connections have historically been a problem in older buildings.
- ***Maintain Landscaping to Prevent Soil Erosion.*** Use native shrubs and plants to beautify your site, control areas where pedestrian traffic has damaged plants, and consider alternative materials, such as rock or mulch, in areas of heavy use. Watch slopes for soil erosion.
- ***Recycle motor oil and other products when possible.***

Printed on Recycled Paper

When you fertilize the lawn, ***Remember*** you're not *just* fertilizing the lawn.



It's hard to imagine that a green, flourishing lawn could pose a threat to the environment, but the fertilizers you apply to your lawn are potential pollutants! If applied improperly or in excess, fertilizer can be washed off your property and end up in lakes and streams. This causes algae to grow, which uses up oxygen that fish need to survive. So if you fertilize, please follow directions and use sparingly.

The Massachusetts Department of Environmental Protection, One Winter Street, Boston, MA 02108

Clean water is important to all of us.

It's up to all of us to make it happen. In recent years, sources of water pollution like industrial wastes from factories have been greatly reduced. Now, more than 60 percent of water pollution comes from things like cars leaking oil, fertilizers from farms and gardens, and failing septic tanks. All these sources add up to a big pollution problem. But each of us can do small things to help clean up our water too—and that adds up to a pollution solution!

Why do we need clean water?

Having clean water is of primary importance for our health and economy. Clean water provides recreation, commercial opportunities, fish habitat, drinking water, and adds beauty to our landscape. All of us benefit from clean water—and all of us have a role in getting and keeping our lakes, rivers, streams, marine, and ground waters clean.

What's the problem with fertilizers?

Fertilizer is a "growing" problem for lakes, rivers, and streams, especially if it's not used carefully. If you use too much fertilizer or apply it at the wrong time, it can easily wash off your lawn or garden into storm drains and then flow into lakes or streams. Just like in your garden, fertilizer in lakes and streams makes plants grow. In water bodies, extra fertilizer can mean extra algae and aquatic plant growth. Too much algae causes water quality problems and makes boating, fishing, and swimming unpleasant. As algae decay, it uses up oxygen in the water that fish and other wildlife need.

Clean Water Tips:

How can you fertilize and help keep our waters clean?

Use fertilizer sparingly. Many plants don't need as much fertilizer or need it as often as you might think.

Don't fertilize before a rain storm.

Consider using organic fertilizers. They release nutrients more slowly.

Have your soil tested before applying fertilizers to your lawn and gardens. A standard soil test costs $8.00. You may not need to add any fertilizer. (Call the UMass Extension Soil Testing Lab at 413/545-2311 or download a soil test order form at www.umass.edu/plsoils/soiltest.)

To find out more about the impacts of nonpoint source pollution and what you can do to prevent it, call the numbers listed below.

MDC
617/727-5114

617/626-1540

EPA New England
617/918-1111

617/292-5500

CZM
617/626-1250

MDFA
617/626-1700

617/626-1395

Communities Connected by Water
Massachusetts Watershed Initiative
617/626-1000

This information on nonpoint source pollution is brought to you by the Department of Environmental Protection, the Executive Office of Environmental Affairs' Massachusetts Watershed Initiative, Coastal Zone Management, the Department of Environmental Management, the Department of Fisheries, Wildlife, and Law Enforcement, the Department of Food and Agriculture, and the Metropolitan District Commission working to reduce nonpoint source pollution through public education. This project was funded by the U.S. Environmental Protection Agency with a federal 104(b)(3) grant.

WHEN YOUR PET GOES ON

THE LAWN, REMEMBER IT DOESN'T

JUST GO ON THE LAWN.

When our pets leave those little surprises, rain washes all that waste and bacteria into our storm drains. It then pollutes our waterways. What to do? Simple. Pick up after your pet and flush the waste down the toilet. Then that little surprise gets treated like it should.



Special thanks to the City of Tacoma's Environmental Services for permission to adapt and modify their original poster.

OUR WATER
Take it personally!

WHEN YOU'RE WASHING YOUR CAR IN THE DRIVEWAY, REMEMBER YOU'RE NOT JUST WASHING YOUR CAR IN THE DRIVEWAY.

All the soap and oily grit goes into the storm drain where it flows directly into our lakes, streams and creeks. This pollutes our waterways. Instead, wash your car on grass or gravel where that stuff is filtered out. Or, you can go to a car wash that recycles its wash water.



Special thanks to the City of Tacoma's Environmental Services for permission to adapt and modify their original poster.

OUR WATER
Take it personally!

WHEN YOU'RE FERTILIZING THE LAWN,
REMEMBER YOU'RE NOT
JUST FERTILIZING THE LAWN.

You use chemical fertilizer on your lawn. Sprinklers run too long, or it rains. The sprinkler runoff and rainfall wash excess fertilizer into the storm drains where it flows directly into our lakes, streams and creeks. This causes algae to grow, which uses up oxygen that fish need to survive. Instead, don't apply fertilizer before it rains. Check your sprinkler settings and always follow the label instructions.



Special thanks to the City of Tacoma's Environmental Services for permission to adapt and modify their original poster.

OUR WATER
Take it personally!

It's a thrill to live on the hill!

BOROUGH OF FOUNTAIN HILL

941 Long St, Fountain Hill, PA 18015 | 610-867-0301

CALENDAR

Make a Payment

Stormwater

*** **New Services Notice for Utility (Stormwater) Customers** ***

As an added feature to the Authority's Utility Billing Software program

• Customers can view and print the Utility Bill online. It is a safe secure service that encrypts the Utility Bill until you enter your user name and password.

• Customers can pay the Utility Bill online with a credit card or by electronic check (eNETPAY).

To register

• Go to: www.billpay.ubmaxonline.com or www.ub-pay.com

✓ Enter the Borough of Fountain Hill **MUNICIPALITY CODE**:

FountainHillSA

This code has to match upper and lower case exactly to be accepted.

✓ The First Name, Last Name, Account # has to match exactly what is on your utility bill card.

✓ Enter your Email address.

✓ Create any USERNAME or PASSWORD that you will not lose or forget.

✓ Allow popups in your browser (Chrome/Internet Explorer)

Existing users please login using the USERNAME or PASSWORD they created at Member Registration.

Stormwater Fee Municipal Code

FountainHillSA

PAY STORMWATER FEE

Fountain Hill Borough

941 Long St
Fountain Hill, PA 18015
(610) 867-0301

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CALENDAR

Code of Ordinances

ECODES

Copies of Borough Ordinances are available for review at the Borough office, 941 Long Street. If you have specific questions regarding an ordinance, please attempt to reference the ordinance number in your inquiry. The Borough's Executive Administrator and Code Enforcement Officer would be happy to assist you at, 610-867-0301.

Introduction
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Elected Officials
KEY TO DISPOSITION OF ALL ORDINANCES
Chapter 1 – ADMINISTRATION AND GOVERNMENT
Chapter 2 – AIR POLLUTION
Chapter 3 – ANIMALS
Chapter 4 – BICYCLES
Chapter 5 – BUILDINGS
Chapter 6 – CONDUCT
Chapter 7 – FIRE PREVENTION AND FIRE PROTECTION
Chapter 8 – FRANCHISES
Chapter 9 – GRADING AND EXCAVATING
Chapter 10 – HEALTH AND SAFETY
Chapter 11 – HOUSING
Chapter 12 – LIBRARIES
Chapter 13 – LICENSES, PERMITS AND GENERAL BUSINESS REGULATIONS
Chapter 14 – MOBILE HOMES AND MOBILE HOME PARKS
Chapter 15 – MOTOR VEHICLES AND TRAFFIC
Chapter 16 – PARKS AND RECREATION
Chapter 17 – PLUMBING
Chapter 18 – SEWERS AND SEWAGE DISPOSAL
Chapter 19 – SIGNS AND BILLBOARDS
Chapter 20 – SOLID WASTE
Chapter 21 – STREETS AND SIDEWALKS

Chapter 22 – SUBDIVISION AND LAND DEVELOPMENT
Chapter 23 – SWIMMING POOLS
Chapter 24 – TAXATION, SPECIAL
Chapter 25 – TREES
Chapter 26 – WATER
Chapter 27 – ZONING

- Adopted Zoning Map

APPENDIX

Ordinances adopted after June 6, 2006

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ORDINANCE 725 Handicap Sign
ORDINANCE 726 TAXATION
ORDINANCE 727 REAL ESTATE TRANSFER TAX
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ORDINANCE 729 STORMWATER MANAGEMENT ORDINANCE
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ORDINANCE 731 No Parking
ORDINANCE 732 Service Tax
ORDINANCE 733 Taxation for FY
ORDINANCE 734 Permanent Promotions-Sergeant(2008)
ORDINANCE 735 Patients DropOff/PickUp Zone N Bergen St
ORDINANCE 736 New Zoning Ordinance

- Adopted Zoning Map
- Title & Article 1
- Article 2 Definitions
- Article 3 Districts
- Article 4 Additional Use Requirements
- Article 5 Environmental Protection
- Article 6 Parking
- Article 7 Signs
- Article 8 General Regulations

ORDINANCE 737 Multiway Stop Intersection-Ostrum & Bishopthorpe Street
ORDINANCE 738 Approving Removal of Handicapped Sign – Broadway
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ORDINANCE 744 Revising Chapter 21, Warrant of Survey Fee
ORDINANCE 745 Revising Chapter 18, Disposal and Discharge of Industrial Waste
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ORDINANCE 747 Accepting a Portion of Warren Street as Public
ORDINANCE 748 Approving Installation of Handicapped Parking spaces
ORDINANCE 749 Approving Special Parking Regulations – Warren Street
ORDINANCE 750 Tax Rates for 2010
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ORDINANCE 753 Revising Chapter 20; Collection of Delinquent Fees for Solid Waste
ORDINANCE 754 Revising Chapter 4; Bicycles
ORDINANCE 755 Approving Parking Restriction -Bishopthorpe
ORDINANCE 756 Revising Chapter 21; Obstructions in Streets
ORDINANCE 757 Approving Parking Restriction – Jeter Ave
ORDINANCE 758 Amending Zoning Ordinance; Check Cashing Business

ORDINANCE 759 Approving Installation of Handicapped Parking Space
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ORDINANCE 763 Taxation FY 2011
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ORDINANCE 767 Parking Violations; Handicapped Parking; Patient Parking S. Hoffert St
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ORDINANCE 769 Amending Civil Service Rules & Regulations; Deletion of Article 12
ORDINANCE 770 Amending Chapter 15; Motor Vehicles & Traffic
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ORDINANCE 800 Amend Civil Service Regs – Physical Agility Standards
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ORDINANCE 803 Amend Chapter 15 Motor Vehicles & Traffic
ORDINANCE 804 Amend Chapter 21 Streets & Sidewalks – Excavation
ORDINANCE 805 Approve Addition Deletion Handicapped Parking 1001 Seneca, 915 Seneca
ORDINANCE 806 Amend Chapter 11 Part 3 Property Maintenance Code
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ORDINANCE 808 Approve Handicapped Patient Parking 820 Bishopthorpe
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ORDINANCE 812 Amend Municipal Pension Plan
ORDINANCE 813 Vacation of Hill Street Alley
ORDINANCE 814 Revising Chapter 18, Collection of Sewer Rates
ORDINANCE 815 Amending Chapter 15, Motor Vehicles and Traffic, No Parking
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ORDINANCE 838 Amending Chapter 15 Part 3 Parking
ORDINANCE 839 Real Estate & Other Taxation for 2018
ORDINANCE 840 Quality of Life
ORDINANCE 841 Regulation of Medical Marijuana
ORDINANCE 842 Amend Municipal Pension Plan

Fountain Hill Borough

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CALENDAR

Community Links

Education

Bethlehem Area School District
Bethlehem Public Library
Fountain Hill Elementary School

Government

Department of Environmental Protection Keyword search type recycling
Salisbury Township
City of Bethlehem
Lehigh County
PA Department of Labor & Industry click on building code
Attorney General
Lehigh Valley Property Assessment
Lower Saucon Township
PA Department of Transportation Statewide Workzone Information. Click on “Statewide Construction Map”
Pennsylvania Assembly Search for current and past Bills passed by the PA General Assembly
Pennsylvania Senate Look up your Senator Lisa Boscola-Senate District 18
Pennsylvania House Representative Jeanne McNeill Look up your House Representative, Jeanne McNeill-District 133
Commonwealth of Pennsylvania

Local News
Saucon Source
Bethlehem Press
WFMZ

Hospital
St. Luke's Hospital

Public Services
Bethlehem Social Security Administration Office

Transportation
LANTA BUS Provides bus service throughout the Borough of Fountain Hill – both fixed route Metro and door-to-door Metro Plus

Other
Fountain Hill Area Guide
Berkheimer Associates
Fountain Hill data
Greater Lehigh Valley Chamber of Commerce Businesses are encouraged to utilize this site. Membership fees may apply. Borough does not endorse this organization but merely provides link as a public service
Fountain Hill Census 2020 Data

Fountain Hill Borough

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MOVING PERMIT

BOROUGH OF FOUNTAIN HILL, PA.

3744

Permission is hereby granted to **Date** _____ **20**____

Your Name:

_____

to transport or remove household goods in bulk

from _____

No. Street City State

to _____

No. Street City State

Names of other occupauts over 18 also moving:

_____ **Is this a house** ☐ **/ or apartment** ☐ _____

_____ **Landlord's name & phone #** _____

_____ _____

THIS PERMIT IS ISSUED IN ACCORDANCE WITH THE PROVISIONS IN ORDINANCE NO. 196, BOROUGH OF FOUNTAIN HILL, PA., ADOPTED MARCH 5, 1956.

Received Payment as Certified:

_____

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BOROUGH OF FOUNTAIN HILL

941 Long St, Fountain Hill, PA 18015 | 610-867-0301

CALENDAR

Recycling and Waste Management

GARBAGE COLLECTION SCHEDULE

Residential Recycling

INFORMATION YOU WILL NEED TO KNOW:
Republic Services has provided the following information to the Borough about an apparent recycling industry crisis due to the recent actions taken by the Chinese Government. Republic Services advised that the United States generates more recyclable material than any other country in the world and China is the world's largest buyer of recyclable material, importing up to 50% of the US recyclables. The Chinese government recently imposed new rules severely restricting the levels of contamination allowed in the recyclable material they accept. These changes have had catastrophic consequences on the US recycling industry. Contamination is any non-recyclable item (TRASH) that gets mixed into a bale of recyclable material. When bales of recyclables arrive in China, they are cut open and sorted through. Items such as plastic bags, clothing, medical waste, Christmas lights and any other non-recyclable items are considered "contamination". Previously bales were allowed to have around 5% contamination in them, or 92 lbs. of trash, in a 1,850 lb. bale of recycled paper. Beginning in 2018, China changed those restrictions to a 0>5% contamination rate, or 9 lbs. of trash in a 1,850 lb. bale of recycled paper. This is an unrealistic number that recycling companies cannot meet. WE ARE ASKING BOROUGH RESIDENTS TO BE CAREFUL IN MAKING SURE THEY ARE NOT THROWING TRASH IN WITH THEIR RECYCLING SO THAT WE CAN TRY TO MEET CHINA'S NEW CONTAMINATION LIMITS AND KEEP TRASH COSTS DOWN.

Click here for information on recycling simplified...

RESIDENTIAL

- Glass (Amber, Green, Clear)
- Aluminum
- Tin
- Bimetal (Tin & Aluminum)
- Plastics (HDPE & PETE-with Recycling Logo 1 & 2; examples-soda, milk, juice, water & cleaning bottles)
- Newspaper (Place alongside to recycling container in tied bundles or place in paper bags).
- Christmas Trees
- Lehigh County Solid Waste
- Electronic Recycling
- Collection varies depending on your zone.



Notice to all Fountain Hill Residents: Residents are prohibited from placing old televisions and computer monitors at the curb for trash collection. Please do not place these items at the curb for normal trash collection as the trash contractor will NOT collect them. If you place these items at the curb, you as the property owner, will be responsible for removal of the items. If the items remain on the street you could face penalties such as fines and costs. Contact any electronic recycler to dispose of, or recycle your old electronic devices.



Electronic Recycling

GER Solutions, LLC on 795 Roble Road, Allentown, PA 18109 accepts most electronics and electric/battery operated items. PLEASE CALL 610.443.1776 or email Admin@GERSolutions.net **FOR PRICING. A list of some acceptable material is available at** https://www.gersolutions.net/.

Zone One- North of Broadway Recycling is picked up every other week on Wednesday along with the trash pick up .

Zone Two – South of Broadway and East of S. Bergen Recycling is picked up every other week on Thursday along with the trash pick up .

Zone Three- South of Broadway and West of S. Bergen Recyling is picked up every two other week on Friday along with the trash pick up.

Materials can be commingled in your official recycling container. They are available for purchase at the Borough office for $10. Remember to rinse materials before disposing of them. Please adhere to the recycling preparation by rinsing cans and removing caps & lids. Any problems with collection, please call the Hauler (Republic Services Lehigh Valley Division) at 855-866-8399 or visit their website at https://www.republicservices.com.

Commercial Recycling

- Glass (Clear, Colored)
- Aluminum Cans
- Steel & bi-metal Cans
- Leaf Waste
- High-grade office paper
- Corrugated Cardboard
- Plastic Bottles (labeled as #1 and #2)

- White Goods (appliances)

Click HERE for the Code of Ordinance for Recycling

YARD WASTE



Republic Services will pick up Yard Waste on the scheduled Waste/Green Waste Pickup day.

- Republic Services accepts tree trimmings, shrubbery clippings, flowers, weeds, grass Clippings, and branches as yard waste.
- *Fruits & Vegetables, Tree Stumps, Dirt & Stones are* ***NOT*** *accepted.*
- Yard Waste must be placed in biodegradable brown paper bags or bundled with biodegradable twin in easy-to-handle bunches.

- Branches Bundles may be no longer than 4 feet in length.
- Branches may not exceed 6 inches in diameter.
- Bags must be under 25 pounds
- Once prepared, yard waste must be placed at the curb the night before the Waste/Green Waste Pickup day.

Fountain Hill Borough

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CALENDAR

Residents & Businesses

- Forms
- Public Assistance
- Recycling and Waste Management
    - Garbage Collection Schedule
- Garbage - Sewer Billing
- Starting a Business in PA

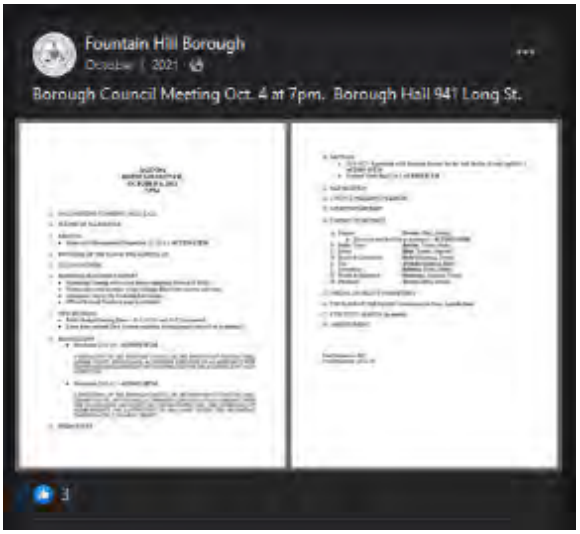
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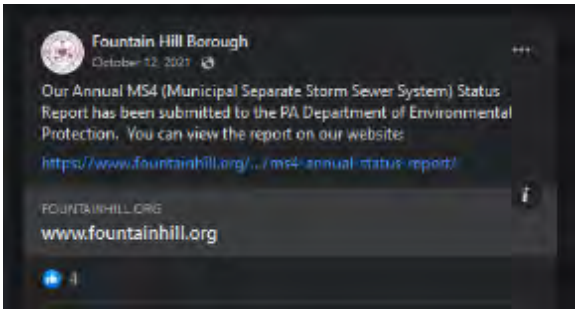
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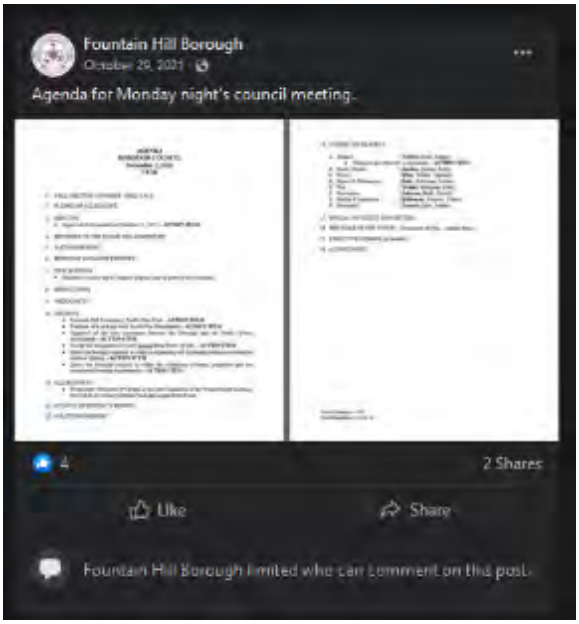

Fountain Hill Borough
October 1, 2021
State Rep. Jeanne McNeill's
Shredding & Electronics Recycling Event
Saturday, Oct. 16
9 a.m. – 11 a.m.
(or until truck is full)
Salisbury Elementary School Parking Lot
1400 Gaskill St., Allentown, PA 18103
The event is free and open to any resident of Fountain Hill and Eastern Salisbury Township. There is a fee for recycling television sets and monitors. Bring your old computers, stereos, radios, video and dvd players and cables to be collected and recycled for free. Paper and Document shredding performed on site.
State Rep.
Jeanne McNeill
6
6 Shares


Fountain Hill Borough
October 8, 2021
Want to get an stormwater fee discount? Start the process here!
Lehigh County Conservation District
October 7, 2021
Are you looking to manage stormwater on your property? Sign up to receive a FREE RAIN BARREL! The Lehigh County Conservation District, in partnership with the Lehigh County Authority, Penn State Extension, Heidelberg Township, Lowhill Township, and Weisenberg Township are carrying out two FREE rain barrel workshops on Saturday, October 16th! Please register at the link below. If you have any questions, please feel free to reach out to our Environmental Educator, Laura Hopek, at LHopek@LehighConservation.org
Registration
https://extension.psu.edu/rain-barrel-lccd
2


Fountain Hill Borough
October 1, 2021
Borough Council Meeting Oct. 4 at 7pm. Borough Hall 941 Long St.
3


Fountain Hill Borough
October 12, 2021
Help prevent stormwater pollution!
What is MS4?
Borough of Fountain Hill
Preventing Polluted Stormwater:
A Guide for Residents
Ten Things You Can do to Prevent Stormwater Pollution
1
3

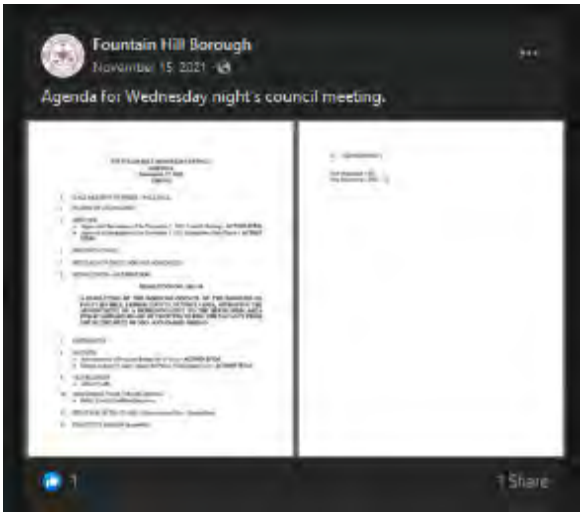

Fountain Hill Borough
October 12, 2021
Our Annual MS4 (Municipal Separate Storm Sewer System) Status Report has been submitted to the PA Department of Environmental Protection. You can view the report on our website:
https://www.fountainhill.org/.../ms4-annual-status-report/
FOUNTAINHILL.ORG
www.fountainhill.org
4


Fountain Hill Borough
October 29, 2021
Agenda for Monday night's council meeting.
4
2 Shares
Like
Share
Fountain Hill Borough limited who can comment on this post.

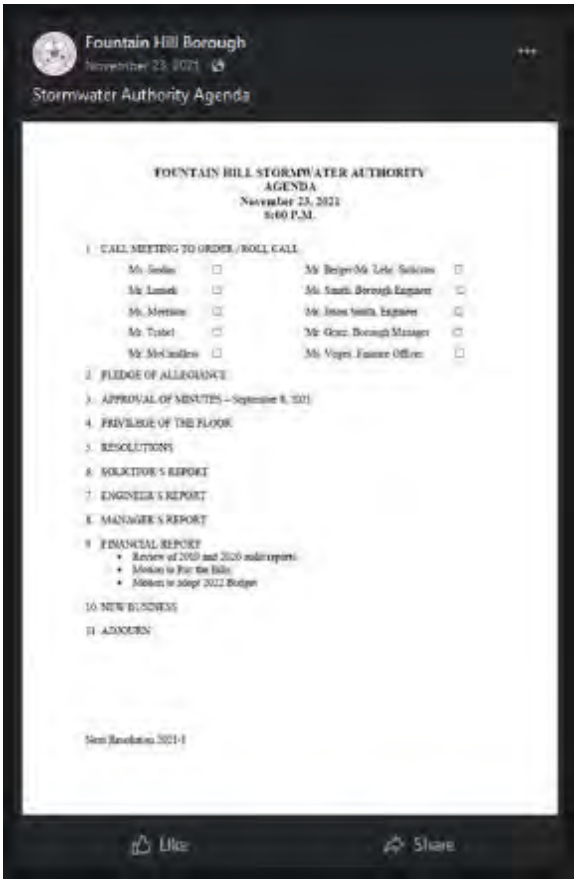

Fountain Hill Borough
October 15, 2021
The Public Works Department will begin leaf collection starting Monday, October 25th.
9
1 Share
Like
Share


Fountain Hill Borough
November 12, 2021
YOU can help with storm water. Public Works is cleaning storm drains and leaves, but please help out if you see a blocked drain near your home.
At least the rain is easier to shovel than snow!
8
6 Shares

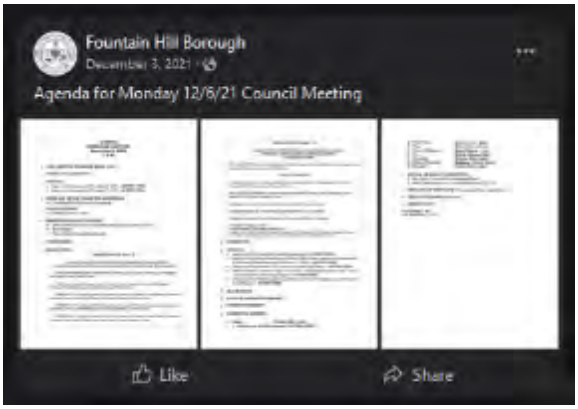

Fountain Hill Borough
Wednesday Night Borough Council Agenda
FOUNTAIN HILL BOROUGH COUNCIL
AGENDA
October 18, 2021
7:00 PM
1. CALL MEETING TO ORDER - ROLL CALL
2. PLEDGE OF ALLEGIANCE
3. MINUTES
• Approval of the minutes of the October 4, 2021 – ACTION ITEM
4. PRESENTATION(S)
5. PRIVILEGE OF THE FLOOR/PRE-SCHEDULED
6. RESOLUTIONS
7. ORDINANCES
8. MOTIONS
• ACTION ITEM
• Motion to approve – ACTION ITEM
9. OLD BUSINESS
• Public Budget Meeting Dates –
10. DISCUSSION ITEMS (NEW BUSINESS)
• Zoning Clerk hired
• Public Works Candidate
• Drug Takeback – October 23rd,
11. PRIVILEGE OF THE FLOOR –
12. EXECUTIVE SESSION
13. ADJOURNMENT


Fountain Hill Borough
Agenda for Wednesday night's council meeting.
1 Share


Fountain Hill Borough
November 23, 2021
Public Works is out collecting leaves. Please have your leaves at the curb so they can collect them before we switch to winter mode. Thanks and have a great holiday!!
2
1 Shares

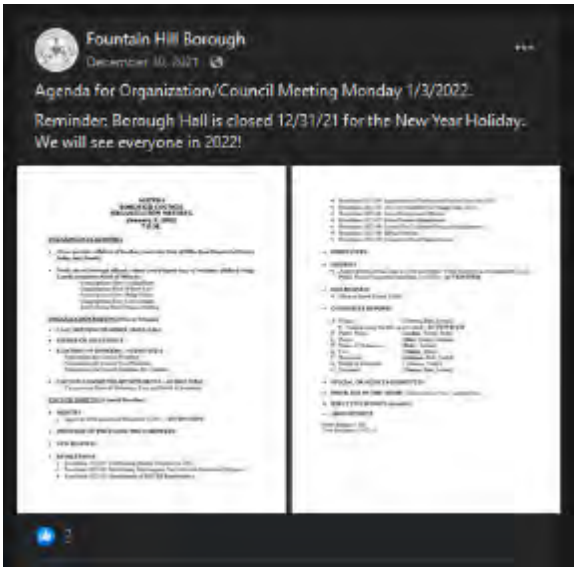

Fountain Hill Borough
Stormwater Authority Agenda
FOUNTAIN HILL STORMWATER AUTHORITY
AGENDA
November 23, 2021
6:60 P.M.
1. CALL MEETING TO ORDER / ROLL CALL
2. PLEDGE OF ALLEGIANCE
3. APPROVAL OF MINUTES – September 8, 2021
4. PRIVILEGE OF THE FLOOR
5. RESOLUTIONS
6. SOLICITOR'S REPORT
7. ENGINEER'S REPORT
8. MANAGER'S REPORT
9. FINANCIAL REPORT
10. NEW BUSINESS
11. ADJOURN
Like
Share

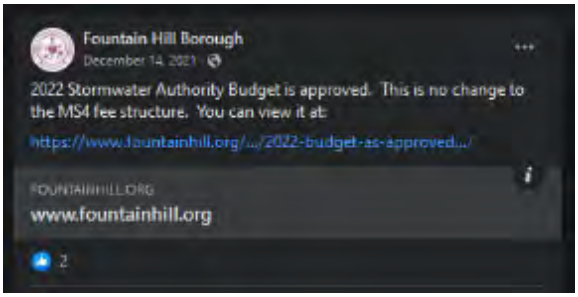

Fountain Hill Borough
December 2, 2021
SCHEDULED END OF LEAF COLLECTION 2021
Public Works is scheduled to stop collecting leaves on December 17, 2021. Although some collection may occur after that date, weather permitting, we would like all residents to have their leaves at the curb for collection by that Friday.
4
4 Shares


Fountain Hill Borough
December 3, 2021
Agenda for Monday 12/6/21 Council Meeting
Like
Share


Fountain Hill Borough
December 27, 2021
2022 Trash/Recycling Collection Schedule
Download Link:
https://www.fountainhill.org/.../RS-269173-Borough-of...
Borough of Fountain Hill
Recycling & Waste Guide
Borough Of Fountain Hill 2022 Recycling & Waste Pickup Calendar: Zones 1, 2 & 3
4
4 Shares

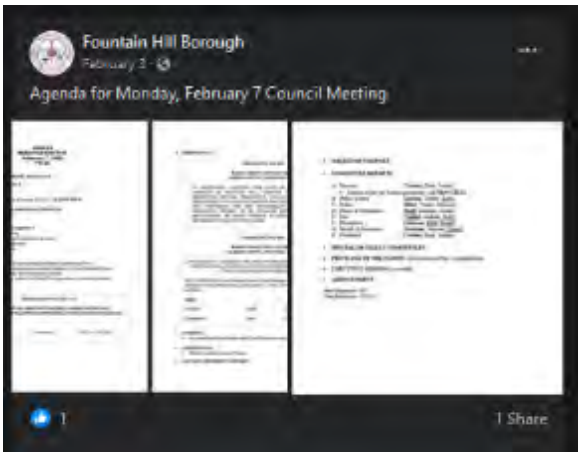

Fountain Hill Borough
2022 APPROVED MEETING SCHEDULE
BOROUGH OF FOUNTAIN HILL
LEHIGH COUNTY, PENNSYLVANIA
NOTICE OF MEETINGS

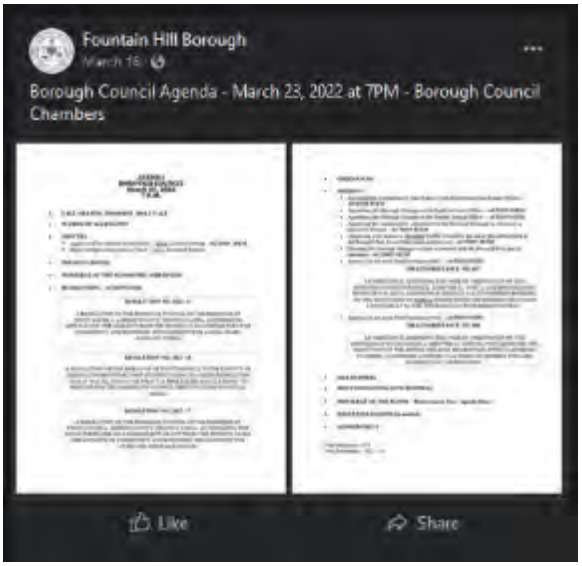

Fountain Hill Borough
Agenda for Organization/Council Meeting Monday 1/3/2022.
Reminder: Borough Hall is closed 12/31/21 for the New Year Holiday.
We will see everyone in 2022!

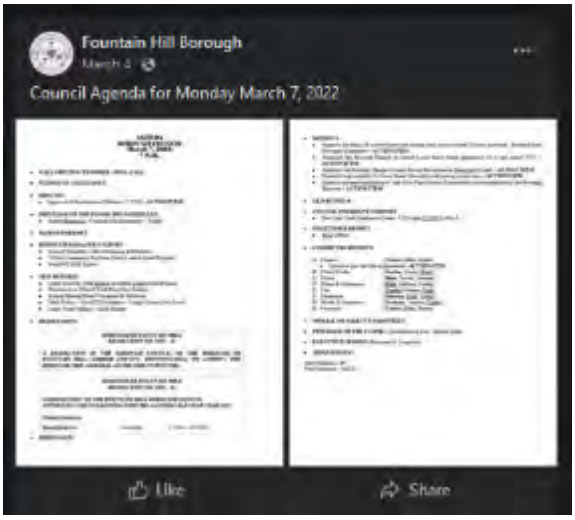

Fountain Hill Borough
December 14, 2021
2022 Stormwater Authority Budget is approved. This is no change to the MS4 fee structure. You can view it at:
https://www.fountainhill.org/.../2022-budget-as-approved.../
FOUNTAINHILL.ORG
www.fountainhill.org
2

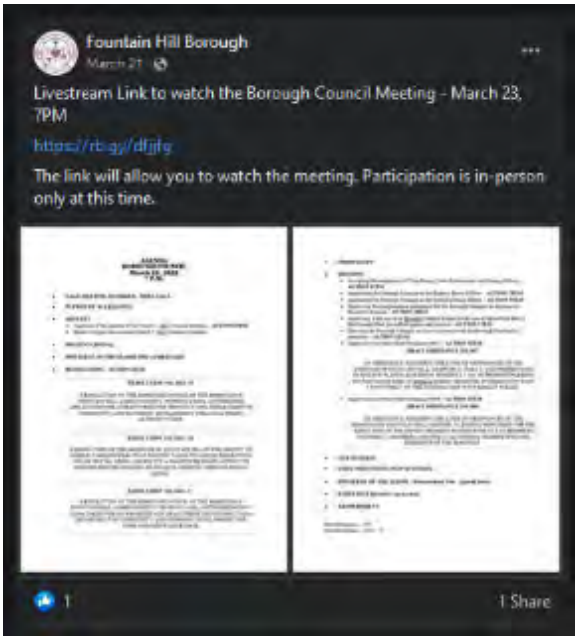

Fountain Hill Borough
January 18
Agenda for Borough Council 1/19/22 7pm.
Like
Share


Fountain Hill Borough
March 8
Stormwater Authority Agenda for 3/9/22
FOUNTAIN HILL STORMWATER AUTHORITY
AGENDA
March 9, 2022
6:00 P.M.
1. CALL MEETING TO ORDER / ROLL CALL
2. PLEDGE OF ALLEGIANCE
3. INTRODUCTION OF NEW MEMBER
Mr. Andrew Boyer
4. ORGANIZATIONAL MEETING
Appoint chair and vice chair
5. APPROVAL OF MINUTES - November 23, 2021
6. PRIVILEGE OF THE FLOOR
7. RESOLUTIONS
8. SOLICITOR'S REPORT
9. ENGINEER'S REPORT – Unable to Attend
10. MANAGER'S REPORT
11. FINANCIAL REPORT
Motion to Pay the Bills
12. NEW BUSINESS
13. ADJOURN
Like
Share


Fountain Hill Borough
February 3
Agenda for Monday, February 7 Council Meeting
1
1 Share


Fountain Hill Borough
March 16
Borough Council Agenda - March 23, 2022 at 7PM - Borough Council Chambers
Like
Share


Fountain Hill Borough
March 4
Council Agenda for Monday March 7, 2022
Like
Share

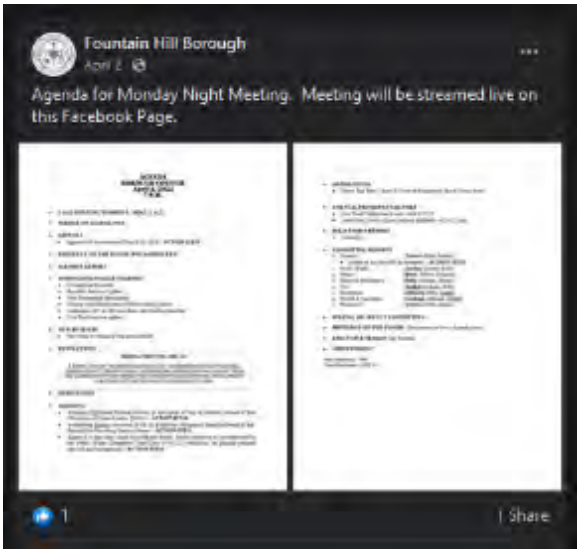

Fountain Hill Borough
March 21
Livestream Link to watch the Borough Council Meeting - March 23, 7PM
https://rb.gy/dfjjfg
The link will allow you to watch the meeting. Participation is in-person only at this time.
1
1 Share


Fountain Hill Borough was live.
March 23
Borough Council Meeting
1 person went
Interested
Like
Comment
Share
Write a comment...


Fountain Hill Borough
March 23
In addition to the published links for the livestream of tonight's meetings, we are also going to try and livestream on Facebook. This is the inaugural run, so please forgive any technical snafus.
9


Fountain Hill Borough was live.
March 23
Borough Council Meeting
letter thanking him for his service. Alright. I will make
3
1 Share


Fountain Hill Borough
March 24
Follow us on YouTube for videos of past council meetings and other Borough related content.
YOUTUBE.COM
Fountain Hill Borough - YouTube
Share your videos with friends, family, and the world
4


Fountain Hill Borough
April 2
Agenda for Monday Night Meeting. Meeting will be streamed live on this Facebook Page.
1
1 Share


Fountain Hill Borough was live.
April 4
Livestream of Meeting
We do every every single thing
2
1 Share
Like
Share

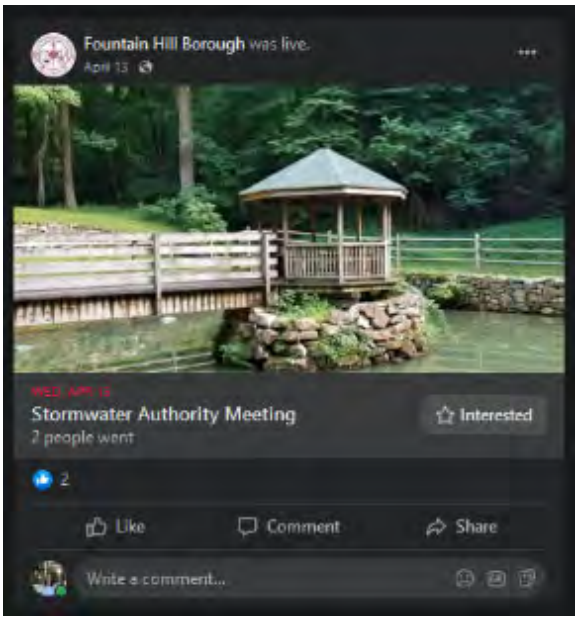

Fountain Hill Borough was live.
April 4
LIVE
Borough Council Meeting
2 people went
Interested
Like
Share


Fountain Hill Borough
April 5
YOUTUBE.COM
4/4/2022 Council Meeting
Livestream of Council Meeting
2
1 Comment
Like
Share
Fountain Hill Borough limited who can comment on this post.
Most relevant
Author
Fountain Hill Borough
We are adjusting the audio to fix the overmodulation. We also ordered a new stand to improve the audio from the public microphone at the podium.
Like
Reply

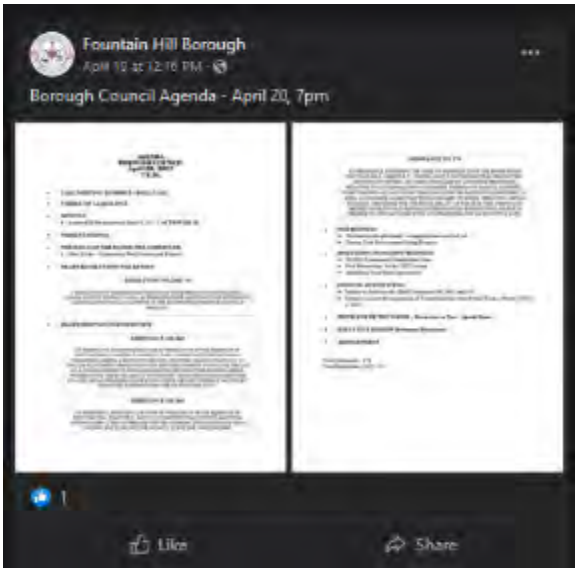

Fountain Hill Borough
April 4
The other event accidently said 7am. This is the correct link for tonight's meeting at 7PM.
LIVE
Borough Council Meeting
2 people went
Interested
Like
Share


Fountain Hill Borough
April 11
Stormwater Authority Agenda - 4/13/22 at 6pm.
FOUNTAIN HILL STORMWATER AUTHORITY
AGENDA
April 13, 2022
6:00 P.M.
2. PLEDGE OF ALLEGIANCE
4. PRIVILEGE OF THE FLOOR
5. RESOLUTIONS
7. ENGINEER'S REPORT
8. MANAGER'S REPORT
9. FINANCIAL REPORT
10. NEW BUSINESS
11. ADJOURN
5
Like
Share

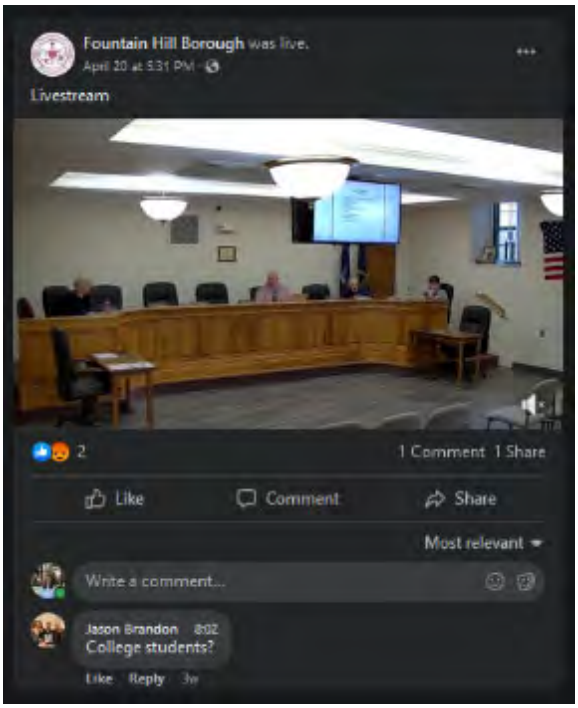

Fountain Hill Borough was live.
April 13
Stormwater Authority Board
Click to expand
0:03 / 19:40
1
1 Share
Like
Share
Fountain Hill Borough limited who can comment on this post.
You can't comment on this post right now.
The broadcaster chose to apply this setting.


Fountain Hill Borough was live.
April 13
Stormwater Authority Meeting
2 people went
Interested
2
Like
Comment
Share
Write a comment...


Fountain Hill Borough was live.
April 18
LIVE
Borough Council Meeting
1 person went
Interested
3
Like
Share
Fountain Hill Borough turned off commenting for this post.

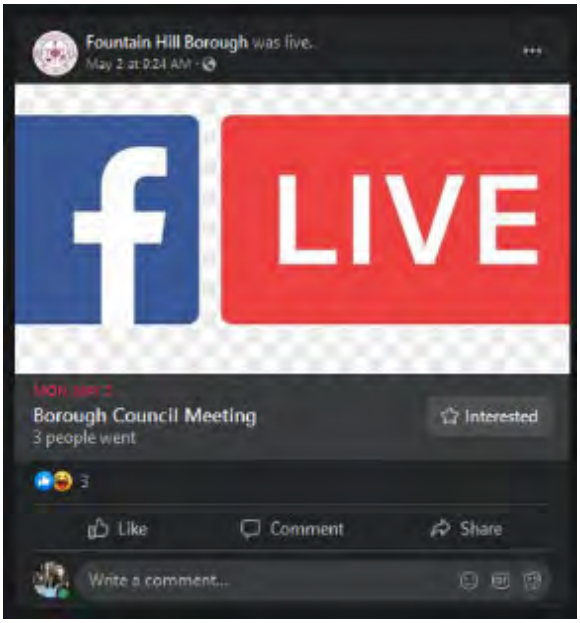

Fountain Hill Borough
Borough Council Agenda - April 20, 7pm
1
Like
Share


Fountain Hill Borough was live.
Livestream
8
24 Comments 1 Share
Like
Comment
Share


Fountain Hill Borough was live.
Livestream
2
1 Comment 1 Share
Like
Comment
Share
Most relevant
Write a comment...
Jason Brandon 8:02
College students?
Like Reply 3w


Fountain Hill Borough
Thanks to everyone who came out to our annual Arbor Day event yesterday. This year marks the 28th consecutive year that Fountain Hill is a "Tree City USA."
6
1 Share
Like
Share

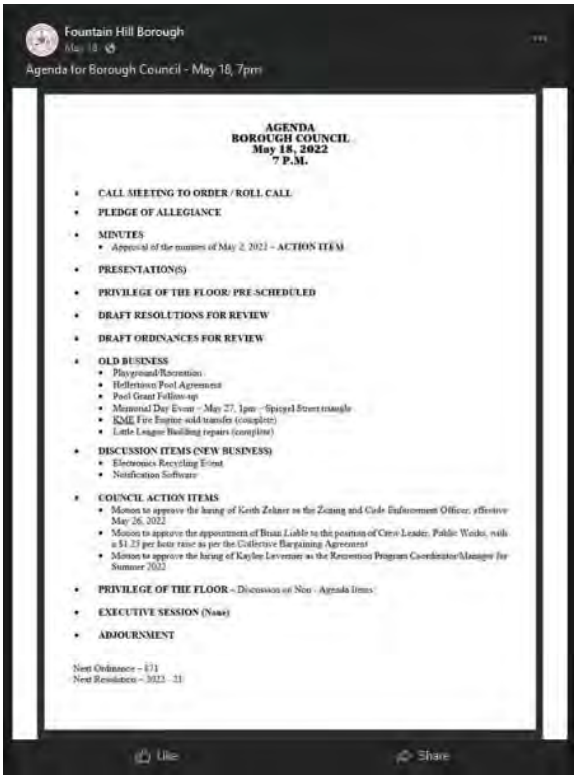

Fountain Hill Borough
April 30
Thanks to Senator Boscola's office for attending our event!
Senator Lisa M. Boscola
April 29
Today, Arbor Day, marks the 150th anniversary. Fountain Hill Borough planted a tree today in honor of Arbor Day and had local officials and students from Fountain Hill Elementary School there for a celebration.
12
1 Share


Fountain Hill Borough was live.
May 2 at 9:24 AM
LIVE
Borough Council Meeting
3 people went
Interested
3
Like
Comment
Share
Write a comment...

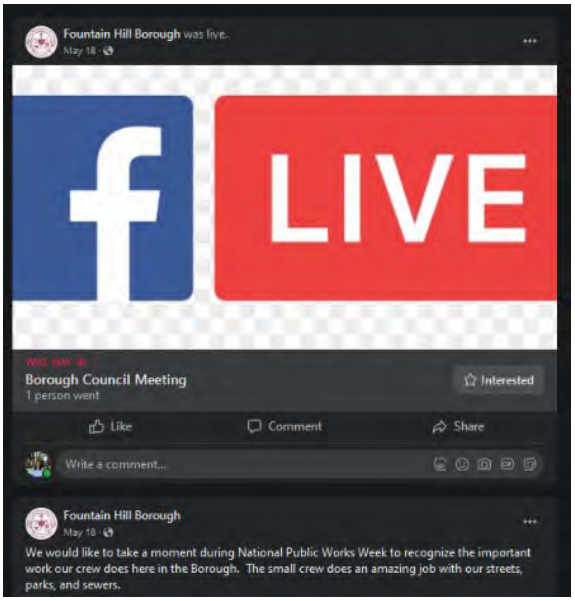

Fountain Hill Borough
April 30
Thanks to Rep. Jeanne McNeill for attending our Arbor Day event!
National
Arbor Day
Rep. Jeanne McNeill
April 29
Today we celebrate #ArborDay2022. It's estimated that there are more than 60 thousand different types of trees on earth. Trees are necessary. They provide for our survival AND offer us hope, teaching us the importance of staying rooted.
4
1 Share

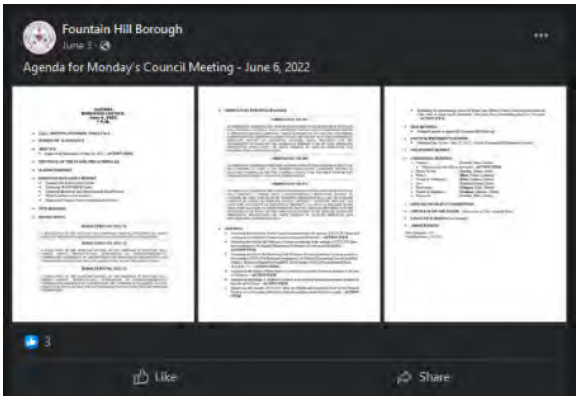

Fountain Hill Borough
May 2 at 9:10 PM
May 2 Borough Council Agenda
(We just realized the post on Friday failed; our apologies. The agenda can always be found on our website if it is not on Facebook.)
1
Like
Share
Fountain Hill Borough limited who can comment on this post.

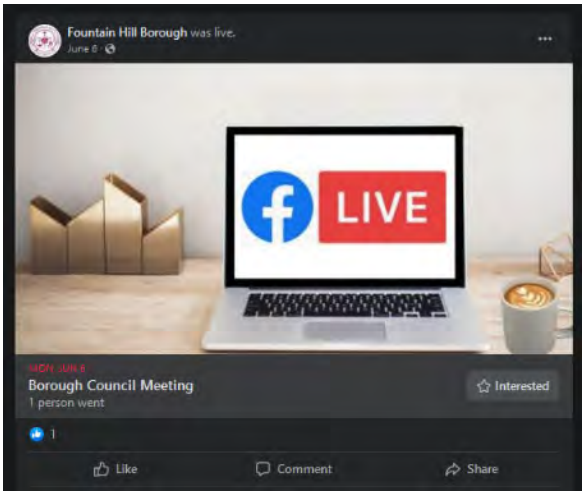

Fountain Hill Borough was live.
May 2 at 6:59 PM
Borough Council
4
1 Share
Like
Share


Fountain Hill Borough
May 18
Agenda for Borough Council - May 18, 7pm
AGENDA
BOROUGH COUNCIL
May 18, 2022
7 P.M.
CALL MEETING TO ORDER / ROLL CALL
PLEDGE OF ALLEGIANCE
MINUTES
Approval of the minutes of May 2, 2022 – ACTION ITEM
PRESENTATION(S)
PRIVILEGE OF THE FLOOR/ PRE-SCHEDULED
DRAFT RESOLUTIONS FOR REVIEW
DRAFT ORDINANCES FOR REVIEW
OLD BUSINESS
Playground/Recreation
Hellertown Pool Agreement
Pool Grant Follow-up
Memorial Day Event – May 27, 1pm – Spiegel Street triangle
KME Fire Engine -sold transfer (complete)
Little League Building repairs (complete)
DISCUSSION ITEMS (NEW BUSINESS)
Electronics Recycling Event
Notification Software
COUNCIL ACTION ITEMS
Motion to approve the hiring of Keith Zehner as the Zoning and Code Enforcement Officer, effective May 26, 2022
Motion to approve the appointment of Brian Liable to the position of Crew Leader, Public Works, with a $1.25 per hour raise as per the Collective Bargaining Agreement
Motion to approve the hiring of Kaylee Leventer as the Recreation Program Coordinator/Manager for Summer 2022
PRIVILEGE OF THE FLOOR – Discussion of Non - Agenda Items
EXECUTIVE SESSION (None)
ADJOURNMENT
Next Ordinance – 671
Next Resolution – 2022 - 21
Like
Share


Fountain Hill Borough was live.
May 18
Livestream
5
19 Comments 1 Share
Like
Comment
Share
Most relevant
Write a comment...
Nyanda Finley De Santos 9:42
Might the FH police have a role in monitoring and handing out tickets for littering and loitering at the park?
Like Reply 18w
View 12 more comments

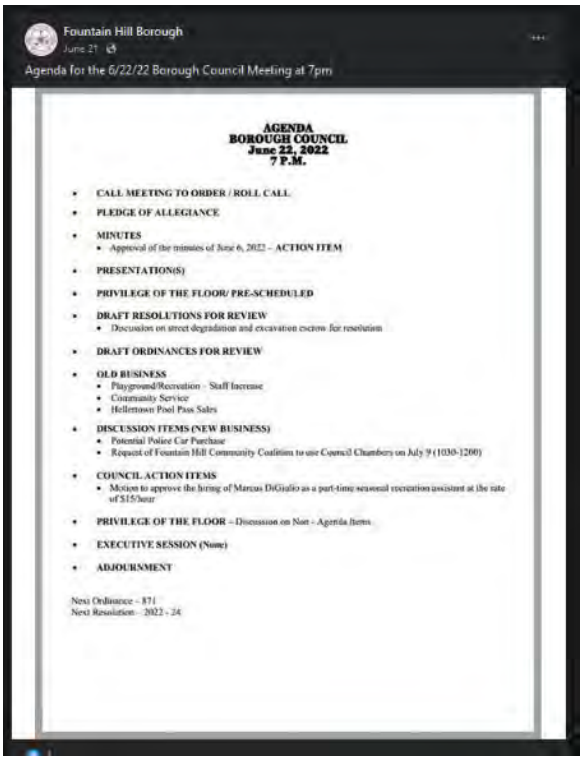

Fountain Hill Borough was live.
May 18
LIVE
Borough Council Meeting
1 person went
Interested
Like
Comment
Share
Write a comment...
Fountain Hill Borough
May 18
We would like to take a moment during National Public Works Week to recognize the important work our crew does here in the Borough. The small crew does an amazing job with our streets, parks, and sewers.


Fountain Hill Borough
June 5
Agenda for Monday's Council Meeting - June 6, 2022
3
Like
Share


Fountain Hill Borough was live.
June 8
LIVE
Borough Council Meeting
1 person went
Interested
1
Like
Comment
Share


Fountain Hill Borough was live.
June 6 ·
Livestream of tonight's meeting.
Click to expand
0:01 / 58:23
3
1 Share
Like
Share


Fountain Hill Borough was live.
June 22 ·
Livestream of the meeting
Click to expand
0:02 / 20:51
4
1 Share
Like
Share
Fountain Hill Borough limited who can comment on this post.


Fountain Hill Borough
June 21 ·
Agenda for the 6/22/22 Borough Council Meeting at 7pm
AGENDA
BOROUGH COUNCIL
June 22, 2022
7 P.M.
CALL MEETING TO ORDER / ROLL CALL
PLEDGE OF ALLEGIANCE
MINUTES
Approval of the minutes of June 6, 2022 – ACTION ITEM
PRESENTATION(S)
PRIVILEGE OF THE FLOOR/ PRE-SCHEDULED
DRAFT RESOLUTIONS FOR REVIEW
Discussion on street degradation and excavation escrow for resolution
DRAFT ORDINANCES FOR REVIEW
OLD BUSINESS
Playground/Recreation – Staff Increase
Community Service
Hellertown Pool Pass Sales
DISCUSSION ITEMS (NEW BUSINESS)
Potential Police Car Purchase
Request of Fountain Hill Community Coalition to use Council Chambers on July 9 (1030-1200)
COUNCIL ACTION ITEMS
Motion to approve the hiring of Marcus DiGiulio as a part-time seasonal recreation assistant at the rate of $15/hour
PRIVILEGE OF THE FLOOR – Discussion on Non – Agenda Items
EXECUTIVE SESSION (None)
ADJOURNMENT
Next Ordinance – 871
Next Resolution – 2022 - 24


Fountain Hill Borough was live.
June 21 ·
live streaming
Borough Council Meeting
1 person went
Interested
2
Like
Comment
Share

MCM #2

PUBLIC INVOLVEMENT / PARTICIPATION

PUBLIC INVOLVEMENT AND PARTICIPATION PLAN

BOROUGH OF FOUNTAIN HILL, LEHIGH COUNTY
August 2014, Last Revised September 2022

This Public Involvement and Participation Plan has been developed to comply with applicable state and local public notice requirements when implementing a public involvement/participation program. (40 CFR Part 122.34(b)(2)(i))

The following Best Management Practices (BMPs) were outlined for the Phase II National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer Systems (MS4) requirements regarding the implementation of a Public Involvement and Participation Plan (PIPP):

BMP #1: Develop, implement and maintain a written Public Involvement and Participation Program (PIPP) which describes various types of possible participation activities and describes methods of encouraging the public's involvement and of soliciting the public's input.

BMP #2: Advertise to the public and solicit public input on ordinances, SOPs, Pollutant Reduction Plans (PRPs) (if applicable) and TMDL Plans (if applicable), including modifications thereto, prior to adoption or submission to DEP.

BMP #3: Regularly solicit public involvement and participation from the target audience groups using available distribution and outreach methods. This should include an effort to solicit public reporting of suspected illicit discharges. Assist the public in their efforts to help implement your Stormwater Management Program (SWMP). Conduct public meetings to discuss the on-going implementation of your SWMP.

TARGET AUDIENCES

While a one-size-fits-all approach may make sense in certain situations, such as publishing articles in the Borough newsletter, pubic involvement is more effective if the overarching message is customized to specific sectors of the overall population. Residents of an urbanized area may gain more from information about the storm drains running under their roads than would a farmer in a rural area served by a road without such infrastructure. Similarly, a breakdown of water treatment costs due to excessive nutrients in the groundwater may be suitable for the adult population but not necessarily for elementary school children.

Identification of key population sectors and stakeholder groups is a vital step in adapting the main goals to drive home the proper message and achieve the intended success. Below are descriptions of such sectors and groups that take into account both the general make-up of the population and the attributes of the Borough of Fountain Hill. Furthermore, the segments are not mutually exclusive, in that individuals may fall into more than one sector or group because of varied interests, employment, or lifestyles.

- *Residents* – This broad category includes homes, apartments, condominiums, subdivisions, and other common housing with Fountain Hill Borough (entire Borough is identified as an Urbanized Area). Most of the homes in Fountain Hill Borough are part of neighborhoods and have streets, sidewalks, and lawns, and area served by stormwater infrastructure like

subsurface pipes, curbed streets, and inlets. Runoff from most homes in Fountain Hill Borough does not flow to or through stormwater BMPs before being discharged into the Lehigh River.

- *Homeowners Associations (HOAs)* – Homeowners Associations commonly have annual agreements for managing specified elements of community property such as roadways, lawn care, stormwater facilities, and other items requiring maintenance responsibilities. Because of the nature of these organizations, communication with an entire community can be funneled through the Association manager and/or board. These associations can be targeted as conduits for water quality awareness and action.

- *Apartment Complexes* – Similar to developments overseen by HOAs and other Associations, apartment complexes have a considerable number of residents but only one central manager of the facility. This allows for a singular point of contact and partnership for an entire base of residents.

- *Business and Industry* – Despite this being a generic category, the business community can be a powerful ally in water quality conservation and improvement. Financial resources available for activity sponsorships, a broad audience reach, and the unique land-use characteristics of business and industry enterprises make this group an important target for stormwater management education and public involvement.

- *Bethlehem Area School District* – The School District serves the City of Bethlehem; Boroughs of Fountain Hill and Freemansburg; and Townships of Bethlehem and Hanover. The District is a direct conduit to the children of our community and their families. Water quality education and hands-on experiences are part of the curriculum, and the Borough has an opportunity to partner with other interest groups such as the Watershed Coalition of the Lehigh Valley, Monocacy Creek Watershed Association, Trout Unlimited, and other local conservation organizations, which are all active entities within the District's municipalities.

- *Builders and Land Developers* – There are many builders and land developers which commonly operate in the Borough. The Borough will provide educational materials and will hold a presentation on stormwater management tailored for this specific industry. The goal will be for these businesses to have the proper background and education on their responsibilities for stormwater management, as well as to open up lines of communication with the Borough regarding future project activities.

- *Fountain Hill Borough Staff* – Fountain Hill Borough owns and maintains property within the municipality. At each of these locations, there are opportunities to utilize proper operational practices to reduce impacts on runoff and waterways. The *Pollution Prevention and Operation & Maintenance Program for the MS4 Stormwater Management Program* will be used to lead the implementation of BMPs for proper stormwater management at these sites.

The foundation for Fountain Hill Borough's Public Involvement and Participation Plan campaign is summarized by the following principles:

- Water resources are extremely valuable and will become more so for future generations that will have a larger population depending on them, as well as potentially impacting them.

- Improvement to water quality is made on both large and small scales by individual residents and business operators.

- Watershed awareness leads to a stronger connection between people and water resources.

- Stopping current sources of point and non-point pollution to waterways and surface water supplies is the first step in improving water quality.

- When armed with good information, many individuals will choose to make good decisions that benefit their communities.

- Community-based organizations, such as watershed groups, sportsmen associations, and civic associations are powerful vehicles that unite residents and community leaders to protect and enhance local water resources.

- Cost-efficient and/or naturally-based solutions often involve simple techniques that many people can implement.

Over the last couple of years, the Borough newsletter and website have been used effectively to broadcast watershed and water quality information to residents and businesses. In addition to other local and regional awareness-building efforts, outreach related to MS4s to date has provided both public education and a means for citizens to be involved. Ongoing and additional outreach efforts will require a cohesive and customized approach to be effective, especially across a broad base of audiences. Customized messages, using various media, must relate to each of our target audiences. These messages can be created by asking questions like:

- What do you feel are the most common threats to water quality?

- What do you feel is our community's common vision for our water resources? What uses are expected to be provided by the water resources?

- What costs are associated with impaired or polluted waters, rather than clean protected waters, and who bears those costs? Is inaction perhaps more costly than action, in the long run?

- What people and interest groups are affected by the loss of wildlife and aquatic habitats?

- How can the amount of sediments, nutrients, and other pollutants running-off into our surface waters be visually conveyed using identifiable graphics, like truckloads of sediments or bags of fertilizer?

- How can certain desirable behaviors be portrayed as "doing the right thing" and being justified as economically sensible?

- How can Borough staff better demonstrate proper "good housekeeping" procedures at Borough-owned facilities?

- How can we, as individuals, engage more residents and businesses in implementing stormwater BMPs on their own properties?

Different audiences can have different motivations for wanting to positively affect our collective water resources. Throughout the life of Fountain Hill Borough's public outreach campaign, the list below will likely evolve and expand. The task of pairing motivations and functions with the identified target audiences, however, lays the groundwork for effectively communicating the overarching message. The following recommendations are provided for each of the major target audiences identified for Fountain Hill Borough:

<u>Residents</u>

- Lawn fertilization and pesticide use are easy targets for behavioral change. Frequency of application, amount, and proper technique can reduce pollution from residential areas and save money for the homeowners.
- Awareness is needed as to how storm sewer systems work, where they drain to, and why dumping any substances into them has a negative impact on our waterways; and creating this awareness will help to reduce pollution.
- Neighborhoods commonly develop into close-knit communities which may be easier to reach for waterway clean-up projects (often sponsored by watershed-based groups) and other events that encourage positive behavior and/or productive activity. Neighborhood relations often lead to an increased sense of responsibility.
- Disconnecting runoff generated by an individual lot from the storm sewer system in a safe manner can benefit the entire community. Cost savings associated with water conservation can generally be easily sold to properly educated residents. For example, rain barrels provide a free source of water for gardening, while reducing costs associated with public water usage and stormwater fees.
- Importance of managing stormwater associated with increases in impervious area and other residential land-uses which collectively burden and even destroy our local waterways.
- Many stormwater BMPs, such as rain gardens, are attractive to desirable wildlife like butterflies and birds.

<u>Property Owners Associations</u>

- Property Owners Associations and Apartment/Condominium Associations typically have pooled financial resources and lower maintenance requirements, respective to individual home and property owners, and as such may be able to effectively manage their properties to best protect, conserve, and restore water quality through proper Operations and Maintenance (O&M) activities and stormwater management.

- Communication channels with residents are generally well-established through bulletin boards, newsletters, regular mailings, websites, and other forms of media. Therefore, efforts of the Borough for public education, outreach, and involvement and participation may be maximized with relatively lower effort.
- Such associations commonly develop into close-knit neighborhoods which may be easier to reach for waterway clean-up projects (often sponsored by watershed-based groups) and other events that encourage positive behavior and/or productive activity. Neighborhood relations often lead to an increased sense of responsibility.
- Generally, such associations have established O&M procedures for regular and comprehensive management of their grounds and facilities. Therefore, all that should be required to optimize results is to revise O&M practices to be consistent with the goals of MS4 regulations and the Borough's Stormwater Management Program.
- Common on-site stormwater management controls, such as rain gardens, vegetated swales, bioretention areas, and wet bottom basins provide valuable wildlife habitat, trail and outdoor rest area opportunities, and other benefits that may be attractive to residents within homeowners and other such associations.

Businesses and Industry

- Establishments that cater to a clientele that visits a physical store or office can support municipal and/or watershed group efforts by displaying posters, distributing handouts, sponsoring events, etc.
- Keeping a "clean shop" is of particular importance with non-residential land-uses that use cleaners, chemicals, or other types of process liquids that flow into waterways or the storm sewer system.
- Since non-residential uses can have more impervious coverage (area and percentage of total lot), runoff can be pre-treated with green infrastructure techniques like rain gardens and infiltration before reaching waterways or the storm sewer system. Drywells can also be retrofitted into sites to promote infiltration, rather than runoff. Rain barrels may also be implemented where stored water can be used or may be discharged slowly following storm events. Green roofs may also be a good option for urban settings, where buildings have the necessary structural capacity.

Bethlehem Area School District

- Continued success in improving water quality relies heavily on future generations, such as our school-age children. Fountain Hill Borough can partner with other watershed-based organizations to provide valuable input and information to local schools to help better educate children and their parents.
- Sources, amounts, and effects of common pollutants should be discussed with our youth in terms that are comprehensible by various age groups.

Builders and Land Developers

- The construction and post-construction management of stormwater by builders and land developers can have a significant impact on local waterways. Providing information and training for these interest groups, so that they understand their responsibilities and have open lines of communication with the Borough, should result in greatly improved operations and cost-effective implementation of both construction and post-construction stormwater Best Management Practices (BMPs).

Fountain Hill Borough Staff

- The Borough owns and maintains property within the municipality. At each of these locations, there are opportunities to utilize proper operational practices to reduce impacts on runoff and waterways. The *Pollution Prevention and Operation & Maintenance Program* will be used to lead the implementation of BMPs for proper stormwater management at these sites.
- Municipal staff must exhibit "good housekeeping" principles at its facilities, including the Borough office complex, public works facilities, community parks, and Borough roadways to maintain water quality and provide a positive example to the citizenry.

DISTRIBUTING THE MESSAGE

Print and Electronic Media

Fountain Hill Borough must be resourceful in implementing this Public Involvement and Participation Plan since staff time and budget constraints are not conducive to a costly program employing a full-time staff member. This places a premium on partnerships with other organizations, use of electronic contact methods, and reaching out to established neighborhood groups for education and participatory activities. A prime example of piggybacking this message with a mainstream medium is through a Borough newsletter. The Borough should revisit the feasibility of newsletter development and distribution. Newsletters are an effective way to get topics related to stormwater management, water conservation, and other MS4-related articles to the target audiences.

However, the newsletter is just one piece in the larger scheme of distributing the message to Borough constituents. The website (www.fountainhill.org) is currently a no-cost resource used to convey a considerable amount of information, current event postings, and links to other valuable websites. The Borough's website does contain a separate "Stormwater" tab that primarily provides important information regarding the Stormwater Management Authority and stormwater fees. This tab also provides MS4-related information; however, opportunities still exist for the addition of more MS4-related topics such as watersheds and watershed management, illicit discharges, drinking water, water conservation, homeowner BMPs, program updates, etc.

There is also an opportunity to play a larger role in the web presence of the Watershed Coalition of the Lehigh Valley and the Monocacy Creek Watershed Association websites. Beyond the general water quality information that our Borough website contains, the Coalition and Association's websites can become more robust and update the public on the clean-up and restoration projects

sponsored throughout the watershed, including opportunities for public involvement and participation.

Social Media

Social media has created a paradigm shift in the way a lot of information is now distributed and this low-cost, or virtually free, method of reaching members of any given target audience has become an invaluable resource in the last decade. In recognition of the ease of distribution and the way in which many people prefer to receive information, the Borough launched a Facebook page in December 2017 and temporarily suspended the use until a formal Social Media Policy was developed. The Borough relaunched their Facebook page and post information relating to stormwater, community events, leaf collection and recycling and waste pickup announcements, Agendas and Council live meeting streams, and Storwmater Authority Agendas. When effectively managed, the Borough's page can provide many opportunities to reach various members of the target audience. General Borough information as well as MS4-related material should be posted periodically. The page will not only become a resource for the distribution of material, but it can also provide a quantitative analysis of how many people may be seeing/viewing the page or a specific post; solicit comments, responses, and/or open dialogue; promote open lines of communication between other like-minded groups or individuals; and assist with the organization of public participation events.

Partnerships and Events

The Lehigh Valley contains several watershed conservancies and associations – a testament to the fact that there is considerable community awareness of the watershed concept and local water quality challenges. Such groups have been responsible for numerous waterway restoration projects, distribution of information at various community events, and obtaining grant funding for water quality improvement efforts. Fountain Hill Borough will continue to strengthen its partnerships with the Watershed Coalition of the Lehigh Valley and other local conservation organizations, supporting and promoting events and educational outreach conducted by these organizations.

Borough staff should continue to attend regular meetings of the active watershed organizations within the community and provide any necessary municipal support for their operations. Annual events attended by the Borough provide access to sizeable live audiences for which, in conjunction with the watershed groups, the Borough can effectively convey water resource protection, conservation, and management messages, as well as ongoing restoration project updates.

The following are additional near-term projects that can help jump-start more activity and interest in improving water quality in our community:

- ***Inlet Stenciling*** – Stenciling storm drain inlets within various neighborhoods and developments with the help of local residents can create more awareness with people of all ages, especially children. This is particularly impactful because it is a hands-on project for those who are involved, but also one that leaves behind a visual reminder to everyone that passes by the drains stamped with a catchy phrase like "Only Rain Down the Drain" or "Drains to Stream Keep it Clean." This can also be effective in encouraging more eyes to keep watch of what is flowing into our drains and waterways, a critical objective of our Illicit

Discharge Detection & Elimination program. Additional assistance from residents could help identify such pollutants early and initiate a prompt cleanup response from the Borough or other emergency responders.

- ***Rain Barrel Workshop*** – The Borough will work with other local conservation organizations to conduct a rain barrel workshop where residents will learn the impacts of stormwater, as well as the benefits of storing stormwater for reuse with a rain barrel. If possible, rain barrels will be made available for participants. Many local municipalities and conservation organizations have partnered with local soda manufacturers to obtain rain barrels free of charge for use with such programs. The Borough will pursue a similar venture.

- ***Other Workshops*** – The Borough will work with other local conservation organizations to host workshops pertaining to interesting topics for urban stormwater management, such as rain gardens, water gardening, and natural landscaping.

Public Involvement in the Planning and Implementation Processes

There are other opportunities for the public to be involved in water quality protection, conservation, and restoration efforts, specifically during program planning and implementation stages. As noted in the introductory section of this document, permit requirements of our MS4 call for a comprehensive local Stormwater Management Program (SWMP).

The Borough will provide periodic progress reports for our SWMP on our website, in our newsletter, and/or in print at the Borough Office. We will document accomplishments no less frequently than once per year for the annual progress report. Not only does this assist in compiling the required reporting to the PA DEP, it can serve as an update to our citizens. The breadth of the SWMP offers a range of topics to discuss, including public involvement, illicit discharge detection, stormwater facility inspections, and upgrades in municipal operations.

We will maintain regular communication with the Watershed Coalition of the Lehigh Valley and the Lehigh County Conservation District. This allows us to be legitimate participants in their events, activities, and communications; all of which are important tools to help us reach our residents, school students, and businesses.

Fountain Hill Borough leadership recognizes the significance of the need to protect, conserve, and restore local water quality, in addition to the associated financial impacts and regulatory obligations. Without each resident, business owner, builder/land developer, and school student being part of this effort, we will likely have to resort to more costly, structural fixes to clean our waterways and treat our drinking water. With about 4,600 people living in our municipality, we are fortunate to have about 4,600 opportunities to protect, conserve, and restore our local water resources for current and future generations.

FOUNTAIN HILL BOROUGH COUNCIL
MINUTES
August 18, 2021
7:00 P.M.

The Council Meeting was held at Borough Hall. Council members present were: Ms. Jordan, Mr. Blatt, Mr. Trabel, and Ms. Halleman. Ms. Johnson, Mr. Trotter, Mr. Ruff, and Mayor Gifford were absent. Also, in attendance were Anthony Branco (Interim Borough Manager), Chief Bachert, Jason Quarry (Pubic Works Supervisor), Tom Wargo Zoning/Codes Officer, and guests.

PLEDGE OF ALLEGIANCE
Council President Blatt called the meeting to order and asked everyone to pledge allegiance to the Flag.

MINUTES

- A motion to approve of the August 2, 2021 Minutes – as amended was made as indicated below:

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter						x
Philip Trabel		x	x			
Helen Halleman			x			
Norman E. Blatt Jr.			x			
Mayor Gifford						

PRESENTATION(S) - None.

PRIVILEGE OF THE FLOOR

- Alexus J. Lyskawia, 943 Long St. – requested curb be painted at Seneca and Clewell.

RESOLUTIONS- None.

ORDINANCES – None.

MOTIONS

- Black Dog Partners – 1336 Russell Ave (Hosey property) extension of Land Use Application until September 30, 2021

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson						x

Wilbert Rufe						x
Doug Trotter						x
Philip Trabel		x	x			
Helen Halleman			x			
Norman E. Blatt Jr.			x			
Mayor Gifford						

- Motion to approve the MMO for the Police Pension for 2022

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter						x
Philip Trabel		x	x			
Helen Halleman			x			
Norman E. Blatt Jr.			x			
Mayor Gifford						

OLD BUSINESS – None

DISCUSSION ITEMS (NEW BUSINESS)

- Cares Act – Mr. Branco asked for Council's permission to utilize the first installment $245,920 for upgrades to the stormwater collection system within the Borough. This would also need to be approved by the Stormwater Authority.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter						x
Philip Trabel		x	x			
Helen Halleman			x			
Norman E. Blatt Jr.			x			
Mayor Gifford						

- Handicap Request from Mr. Stew McCandless, 1011 Pawnee St. – Approval from Mr. Quarry and Chief Bachert.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan		x	x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter						x
Philip Trabel	x		x			
Helen Halleman			x			
Norman E. Blatt Jr.			x			
Mayor Gifford						

- Mr. Branco informed Council that Fire Chief Richmond has stepped down as Fire Chief. Asst. Chief Boehrer will serve as acting Chief until elections in November.
- Mr. Branco informed Council that the Lehigh County CDBG program is recommending to the LC Commissioners a grant of $131,400 for Jeter Ave. reconstruction.

- Ms. Jordan informed Council that the Books on the Hill bookmobile is open. Hours will be Monday and Friday 10 am to 2 pm, and Wednesdays from 1 pm to 5 pm

PRIVILEGE OF THE FLOOR – Non-Agenda

- Lisa Harris of 1215 Moravia St.– presented the following questions;
    1. Do mutual aid fire departments get paid for coming into the Borough to assist our fire department?
    2. Will Borough Council raise taxes to upgrade the stormwater system as presented earlier in the meeting?
    3. Is the group home located at 1225 Moravia St. a business?

EXECUTIVE SESSION – None.

ADJOURNMENT - At 7:46 PM Council President Blatt asked for a motion to adjourn. Mr. Trabel made the motion, seconded by Ms. Jordan and unanimously approved.

Next Ordinance – 865
Next Resolution – 2021-16

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BOROUGH OF FOUNTAIN HILL
LEHIGH COUNTY, PENNSYLVANIA

By: _____
Norman E. Blatt Jr.- President of Council

ATTEST:

By: _____
Anthony Branco, Borough Manager

FOUNTAIN HILL BOROUGH COUNCIL
MINUTES
September 22, 2021
7:00 P.M

The Council Meeting was held in-person at Borough Hall. Council members present were: Ms. Jordan, Ms. Johnson, Mr. Blatt, Mayor Gifford, Mr. Rufe, Mr. Trabel, Mr. Trotter and Ms. Halleman. Also, in attendance were Eric Gratz, (Borough Manager), Cordula Voges (Finance Director), and guests.

Council President Blatt called the meeting to order and asked for everyone to rise for the Pledge to the Flag

MINUTES

- Council President Blatt asked for a motion to approve the September 7, 2021 Minutes.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		X			
Jamie Johnson			X			
Wilbert Rufe			X			
Doug Trotter			X			
Philip Trabel		x	X			
Helen Halleman			X			
Norman E. Blatt Jr.			X			
Mayor Gifford						

PRESENTATION(S) - None.

PRIVILEGE OF THE FLOOR – None.

RESOLUTIONS – None.

ORDINANCES – None.

MOTIONS

- Council President Blatt asked for motion to approve the Police 12-hour shift compromise.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			X			
Jamie Johnson			X			

Approved

Wilbert Rufe			X			
Doug Trotter		x	X			
Philip Trabel	x		X			
Helen Halleman			X			
Norman E. Blatt Jr.			X			
Mayor Gifford						

- Black Dog Partners – 1336 Russell Ave (Hosey property) request for extension of Land Use Application until October 31, 2021

Council President Blatt asked for a motion to approve the above request for extension.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			X			
Jamie Johnson		x	X			
Wilbert Rufe			X			
Doug Trotter			X			
Philip Trabel	x		X			
Helen Halleman			X			
Norman E. Blatt Jr.			X			
Mayor Gifford						

Council President Blatt asked Mr. Gratz to notify the applicant's Solicitor accordingly

- Council President Blatt asked for a motion to approve the Payment Application No 4 to Pipe Services Corp. in the adjusted amount of $58,077.76 as recommended by the Borough engineer.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			X			
Jamie Johnson		x	X			
Wilbert Rufe			X			
Doug Trotter	x		X			
Philip Trabel			X			
Helen Halleman			X			
Norman E. Blatt Jr.			X			
Mayor Gifford						

Approved

OLD BUSINESS

- American Rescue Plan Act (ARPA) money for Stormwater Authority accepted, inlet project

Borough Manager, Eric Gratz, reported that the Fountain Hill Stormwater Authority (FHSWA) accepted the first installment of the ARPA funds for its inlet project. The scope of the project will be adjusted as funds are available.

- Borough Vehicle to be auctioned off on Municibid

Council had originally approved the sale of the retired Police Cruiser on Municibid. The Borough Manager explained that even though the sale was initially approved for the sale of the Police Cruiser, the Borough is considering to potentially keep the Police Cruiser for Borough use and sell the aging Jeep Cherokee instead. The final decision will be made after the Police Cruiser is inspected.

- Ms. Jordan announced that the Grand Opening of the Book Mobile will be held on October 2, 2021 between 10 am and 1 pm.

  Currently, the Book Mobile will also be open every other Saturday.

DISCUSSION ITEMS (NEW BUSINESS)

- Mattress Trash Bag Program

Mr. Gratz reported that the Borough had ordered mattress trash bags ($1.87/bag) to provide to Borough residents and thus encourage the proper disposal of mattresses. He suggested to discuss and vote if the bags are given away or sold at the next Council Meeting.

- Moravia Street School Traffic

Council President had received a request to direct traffic only one way during certain times for the safety of students.
Mayor Gifford mentioned that a student pick-up plan had been established with the school to use the front entrance and direct the foot traffic to Church Street. She asked to coordinate accordingly with the Principal and adhere to that plan.
Mr. Gratz offered to set up a meeting with the Police and further discuss the plan.

- Zoning Clerk Position

Mr. Gratz reported that the Zoning Clerk position will be advertised online.

PRIVILEGE OF THE FLOOR – Discussion on Non - Agenda Items - None.

Approved

EXECUTIVE SESSION – Personnel Matters

Council President Blatt announced that Council will adjourn for an Executive Session to discuss personnel matters and not return to the public meeting room.

ADJOURNMENT

At 7:21 PM Council President Blatt asked for a motion to adjourn. Ms Johnson made the motion, seconded by Mr. Trabel and unanimously approved.

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BOROUGH OF FOUNTAIN HILL
LEHIGH COUNTY, PENNSYLVANIA

By: _____
Norman E. Blatt Jr.- President of Council

SUBMITTED
By: _____
Cordula Voges, Finance Director

ATTEST:
By: _____
Eric Gratz, Borough Manager

Next Ordinance – 865
Next Resolution – 2021 - 16

Approved

FOUNTAIN HILL BOROUGH COUNCIL
MINUTES
October 4, 2021
7:00 P.M

The Council Meeting was held in-person at Borough Hall. Council members present were: Ms. Jordan, Mr. Blatt, Mayor Gifford, Mr. Rufe, Mr. Trabel, Mr. Trotter and Ms. Halleman. Also, in attendance were Cordula Voges (Finance Director), Jason Quarry (Public Works Supervisor), Dave Boehrer (Fire Chief), Mr. Berger in absence of Mr. Pete Lehr (Solicitor) and guests.

Council President Blatt called the meeting to order and asked for everyone to rise for the Pledge to the Flag

MINUTES

- Council President Blatt asked for a motion to approve the minutes of September 22, 2021 as amended.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		X			
Jamie Johnson						x
Wilbert Rufe			X			
Doug Trotter			X			
Philip Trabel		x	X			
Helen Halleman			X			
Norman E. Blatt Jr.			X			
Mayor Gifford						

PRIVILEGE OF THE FLOOR/ PRE-SCHEDULED

- Ms. Ariana Johnson of 1451 Jeter Ave addressed Council following her email dated 10/1/2021 to the Borough Manager. She raised concerns to the unsafe situation during student drop off and pick up at Fountain Hill Elementary School.
  Council President Blatt stated that the "Want Ad" is posted both on the Borough's website and its fb page. Since the Crossing Guard position has not been filled yet, the Fountain Hill Police do help out. However, Mayor Gifford pointed out that the Police Officers' first obligation is to respond to incoming calls.
  Mayor Gifford and the Police Chief are scheduled to meet with the Fountain Hill Elementary Principal on 10/13/2021 to find a solution to this problem. On behalf of Ms. Johnson, Council President Blatt announced that Ms. Johnson's husband offered to temporarily help out as a Crossing Guard also. Ms. Halleman asked parents to get involved with the students' drop off and pick up. Mr. Trabel wondered if the Fountain Hill

Elementary School has a School Safety Patrol Officer through the School Safety Program. Mayor Gifford confirmed that a School Safety Patrol Officer is in place though.

- 734 Delaware Ave Property Owner, Charles Zurick

Mr. Charles Zurick of 734 Delaware Ave, supported by his wife Sharon, daughter and son-in-law, addressed Council reiterating his complaint against his neighbor on 736 Delaware Ave, Equinox Property Management (Equinox), intruding on his family's home with continuous lighting and an erected barrier fence. In support of the complaint, Mr. Zurick referred to the Magistrate's citations for a nuisance against Equinox regarding the lighting. He questioned if the neighbor's permits were rightfully issued or if they can be revoked.
Mr. Berger stated that if the light stays on after 10 PM, it is an enforcement issue and the Borough's remedy is to issue a citation. Council President asked the Solicitor to look into other remedies to solve the issue.
Mr. Rufe suggested to review the Borough rules for lighting and will initiate a respective House & Ordinance Committee meeting.

- 721 Frederick Street – Rental License

Ms. Carol Gerenser received the above home as a gift from her mother. The mother continues to reside at 721 Frederick St. Ms. Gerenser does not rent the home to her mother. She asked to make an exception to the rental license requirement. Council consented with the request. Council President Blatt will talk to the Zoning Officer in this respect.
Mr. Berger recommended to define a rental property to avoid these kinds of situations.

MAYOR'S REPORT

Mayor Gifford thanked Ms. Jordan and Mr. Rufe for helping out at bookmobile's grand opening. Mayor Gifford reminded that Trick or Treat will be held on the last Friday in October between 6 and 8 PM.

BOROUGH MANAGER'S REPORT

In his physical absence, Mr. Gratz informed Council by memo of:

- Scheduled Meeting with the Bethlehem Area School District regarding Moravia St traffic for 10/13/2021 at 1 pm at the school.
- A cistern was uncovered at the public works building. The hired contractor filled it with concrete and stone.
- A Community Survey for Pool was added to the Borough's website and its Facebook page. The bill cards that will be issued on 10/15/2021 will also reference the Community Survey inviting residents to respond.

Residents had suggested to add a blank space to the survey for comments on social media discussion forums. Ms. Jordan explained that community input will be offered at a public meeting.

- Establishment of an official Borough Facebook page (https://www.facebook.com/FHBoro/)

  The public is invited to "visit and like" it.

NEW BUSINESS

- Council President announced the upcoming Public Budget Meeting Dates to be held on 11/3, 11/10, and 11/17 (as needed).

  As in the past, Council will meet as a Committee as a Whole.

- Ariana Johnson email dated 10/1/2021 to Borough Manager regarding Fountain Hill Elementary School student drop off and pick up.
  Ms. Johnson referred to her address at the beginning of the Council Meeting.

RESOLUTIONS

Council President Blatt asked for a motion to approve the below resolutions.

- Resolution 2021-16

  A RESOLUTION OF THE BOROUGH COUNCIL OF THE BOROUGH OF FOUNTAIN HILL, LEHIGH COUNTY, PENNSYLVANIA, AUTHORIZING EXECUTION OF AN AGREEMENT WITH THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION FOR THE ACCEPTANCE OF TA SET ASIDE FUNDS.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		X			
Jamie Johnson						x
Wilbert Rufe			X			
Doug Trotter			X			
Philip Trabel		x	X			
Helen Halleman			X			
Norman E. Blatt Jr.			X			
Mayor Gifford						

- Resolution 2021-17

  A RESOLUTION OF THE BOROUGH COUNCIL OF THE BOROUGH OF FOUNTAIN HILL, LEHIGH COUNTY, PENNSYLVANIA, AUTHORIZING EXECUTION OF AN AGREEMENT WITH

THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION FOR THE ACCEPTANCE OF REIMBURSEMENT FOR CONSTRUCTION OF ADA RAMPS DURING THE MULTIMODAL TRANSPORTATION FUND GRANT PROJECT.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			X			
Jamie Johnson						x
Wilbert Rufe			X			
Doug Trotter		x	X			
Philip Trabel	x		X			
Helen Halleman			X			
Norman E. Blatt Jr.			X			
Mayor Gifford						

ORDINANCES – None.

MOTIONS

Council President Blatt asked for a motion for the below items:

- 2021-2022 Agreement with Humane Society for the safe shelter of stray animals Police Chief welcomes the agreement.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		X			
Jamie Johnson						x
Wilbert Rufe			X			
Doug Trotter		x	X			
Philip Trabel			X			
Helen Halleman			X			
Norman E. Blatt Jr.			X			
Mayor Gifford						

- Mattress Trash Bag Cost Deferral

Council agree that the Fountain Hill residents (proof of residence required) will be allowed to pick up a mattress trash bag for free at Borough Hall.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			X			
Jamie Johnson						x
Wilbert Rufe	x		X			
Doug Trotter			X			
Philip Trabel		x	X			

Helen Halleman			X			
Norman E. Blatt Jr.			X			
Mayor Gifford						

OLD BUSINESS - None.

COUNCIL PRESIDENT'S REPORT

Council President Blatt hopes that the Books on the Hill will be successful.
He also reminded of Fire prevention week next week. The Fire Chief said no events are scheduled this year. Council President Blatt recommended to check the batteries in smoke detectors and review a family escape plan. Fire Chief Boehrer added that smoke and carbon monoxide detectors even come with batteries lasting 10 years.
Ms. Halleman thanked Mr. Boehrer for his many years of volunteering for the fire department.

SOLICITOR'S REPORT

Mr. Berger reported that the developers for the 1336 Russell Ave project are ready to move forward with the new plans to be presented at the next council meeting.

COMMITTEE REPORTS

A. Finance (**Trotter,** Blatt, Jordan)

- Motion to pay the bills as presented

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			X			
Jamie Johnson						x
Wilbert Rufe			X			
Doug Trotter	x		X			
Philip Trabel		x	X			
Helen Halleman			X			
Norman E. Blatt Jr.			X			
Mayor Gifford						

- Motion to pay the MMO for 2021 as presented by Ms. Voges

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			X			
Jamie Johnson						x
Wilbert Rufe			X			
Doug Trotter		x	X			
Philip Trabel	x		X			
Helen Halleman			X			

Norman E. Blatt Jr.			X			
Mayor Gifford						

B. Public Works (**Jordan**, Trotter, Rufe)

Mr. Quarry reported that the Public Works crew is wrapping up the paving season He reminded residents to report any potholes before winter sets in.

Ms. Halleman specifically thanked the Public Works department for a great paving job at the intersection of Tumbler and Ostrum streets.

C. Police (**Blatt**, Trotter, Johnson) - None.

D. House & Ordinances (**Rufe**, Halleman, Jordan)

Mr. Rufe will report at the next Council Meeting.

E. Fire (**Trabel,** Halleman, Rufe)

Mr. Trabel present the September Fire report.

The Voluntary Fire Department will assist the police with handing out candy for Halloween.

Christmas trees will be sold again this season at the park.

F. Recreation (**Johnson**, Rufe, Trabel) – None.

G. Health & Sanitation (**Halleman**, Johnson, Trabel)

Ms. Halleman read the Sewer & Garbage collection report for September.

H. Personnel (**Trotter,** Blatt, Jordan) – None.

SPECIAL OR SELECT COMMITTEES

Ms. Jordan thanked Council and Mayor Gifford for their continuous support for "Books on the Hill". She extended her gratitude to the Public Works Department for helping to set up the book mobile.

PRIVILEGE OF THE FLOOR – Discussion on Non - Agenda Items – None.

EXECUTIVE SESSION (as needed) – None.

ADJOURNMENT

At 8:08 PM Council President Blatt asked for a motion to adjourn. Ms Jordan made the motion, seconded by Mr. Trabel and unanimously approved.

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BOROUGH OF FOUNTAIN HILL
LEHIGH COUNTY, PENNSYLVANIA

By: _____
Norman E. Blatt Jr.- President of Council

SUBMITTED
By: _____
Cordula Voges, Finance Director

ATTEST:
By: _____
Eric Gratz, Borough Manager

Next Ordinance – 865
Next Resolution – 2021-18

FOUNTAIN HILL BOROUGH COUNCIL
MINUTES
November 1, 2021
7:00 P.M

The Council Meeting was held in-person at Borough Hall. Council members present were: Ms. Jordan, Mr. Blatt, Mr. Rufe, Mr. Trabel, Mr. Trotter and Ms. Halleman. Mayor Gifford attended via phone. Also, in attendance were Eric Gratz (Borough Manager), Cordula Voges (Finance Director), Jason Quarry (Public Works Supervisor), Dave Boehrer (Fire Chief), Ed Bachert (Police Chief) , and Mr. Pete Lehr (Solicitor) and guests.

Council President Blatt called the meeting to order and asked for everyone to rise for the Pledge to the Flag

MINUTES

- Council President Blatt asked for a motion to approve the minutes of October 20, 2021 as amended.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson			x			
Wilbert Rufe			x			
Doug Trotter			x			
Philip Trabel		x	x			
Helen Halleman			x			
Norman E. Blatt Jr.			x			
Mayor Gifford						

PRIVILEGE OF THE FLOOR/ PRE-SCHEDULED - none.

MAYOR'S REPORT

Mayor Gifford thanked for well wishes she has received.

She also commented on a wonderful trick or treat night and thanked all participants.

BOROUGH MANAGER'S REPORT

- In reference to a recent repeated resident's complaint letter regarding trash pickup, Mr. Gratz reported that the number of complaints has increased. All complaints have been resolved. However, he recommended to have the solicitor potentially look into the contract terms and send a letter to Republic Services to discuss these contract issues.

Council consented.

- Mr. Gratz reported that Office Security Grant money is left to afford the purchase of an additional camera for the council chamber to be able to live stream council meetings. Council consented.

NEW BUSINESS

- The "Gametime" tavern request for a 5-minute pickup zone in front of the restaurant (potentially 3 parking spots)

Mr. Gratz asked for Council's general standing to this request before investing in traffic studies and amendments to existing ordinances.
Council generally agreed but raised concerns to potentially limit to only (two) 2 parking spots.

RESOLUTIONS - none

ORDINANCES - none

MOTIONS

- Council President Blatt asked for a motion to approve the temporary Fountain Hill Elementary Traffic Plan Trial for (one) 1 month.

Mayor Gifford stressed that the temporary trial would encourage the dialogue between the school and the nearby church.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson			x			
Wilbert Rufe			x			
Doug Trotter			x			
Philip Trabel		x	x			
Helen Halleman			x			
Norman E. Blatt Jr.			x			
Mayor Gifford						

- Mr. Gratz asked for a motion to approve the purchase of a Pick-up Truck for the Fire Department in the amount of $71,000 funded through the Fire Fund to replace the old vehicle in the fleet.

A request for bidding is not necessary because the vendor is a Costars state contractor.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson			x			
Wilbert Rufe			x			
Doug Trotter		x	x			

Philip Trabel	x		x			
Helen Halleman			x			
Norman E. Blatt Jr.			x			
Mayor Gifford						

- Mr. Gratz asked for a motion to approve the side agreement between the Borough and the Public Works Association to better match wage levels with other municipalities.

Mr. Trabel inquired if the elimination of one Public Works position would not impair the Public Works functionality. Mr. Quarry confirmed that a total of five (5) employees would suffice to avoid service interruptions.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson			x			
Wilbert Rufe			x			
Doug Trotter			x			
Philip Trabel		x	x			
Helen Halleman			x			
Norman E. Blatt Jr.			x			
Mayor Gifford						

- Council President Blatt asked to accept with regrets the resignation of Cody Zrinski from Public Works.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson			x			
Wilbert Rufe			x			
Doug Trotter		x	x			
Philip Trabel			x			
Helen Halleman			x			
Norman E. Blatt Jr.			x			
Mayor Gifford						

- Mr. Gratz asked for a motion to direct the borough solicitor to work on expanding and tightening the ordinances related to outdoor lighting.

When reviewing residents' complaints regarding outdoor lighting intrusion, the House & Ordinance Committee discussed the PA Outdoor Lighting Commission's "Invasive Lighting" resource and recommended it to the Solicitor when reviewing the respective ordinances.

Mr. Trabel inquired if the existing lighting installations would be affected by a more restrictive ordinance. Mr. Lehr will review but thinks that the ordinance could be applied retroactively.

Council President Blatt asked for a motion to direct the borough solicitor to review the proposed ordinance.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson			x			
Wilbert Rufe			x			
Doug Trotter	x		x			
Philip Trabel		x	x			
Helen Halleman			x			
Norman E. Blatt Jr.			x			
Mayor Gifford						

- Council President Blatt also brought up the subject of rental qualifications. He asked for a motion to ask the solicitor to review and refine the definition of rental properties and related licensing requirements.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan		x	x			
Jamie Johnson			x			
Wilbert Rufe			x			
Doug Trotter			x			
Philip Trabel	x		x			
Helen Halleman			x			
Norman E. Blatt Jr.			x			
Mayor Gifford						

OLD BUSINESS

- Council President Blatt reminded everyone of the Wednesday, November 3rd 6pm first Committee of the Whole budget meeting. The General Fund and Liquid Fuels Fund. will be discussed.

He reminded that the public is invited to observe.

COUNCIL PRESIDENT'S REPORT

Council President Blatt was happy that the trick or treat night was changed from Friday to Sunday due to rainy weather. He thanked the residents for participating.

Council President Blatt reminded everyone of November 2nd election day. Polls will open at 7 am and close at 8 pm .

Council President Blatt noted that parking on Delaware Ave is already tight during snow emergencies. The current traffic situation on Bergen between Delaware Ave and School Street might remove parking restrictions.

SOLICITOR'S REPORT

Mr. Lehr reported on the status of the ongoing litigation with Salisbury Township.
The court had referred the matter back to the parties to mitigate and reach a mutually acceptable agreement. He noted that the "Perpetuity" issue is still upheld by Salisbury Township, but should be removed and is being negotiated.

COMMITTEE REPORTS

A. Finance (**Trotter,** Blatt, Jordan)

- Mr. Trotter asked for a motion to approve payment of the bills as presented.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson		x	x			
Wilbert Rufe			x			
Doug Trotter			x			
Philip Trabel	x		x			
Helen Halleman			x			
Norman E. Blatt Jr.			x			
Mayor Gifford						

B. Public Works (**Jordan**, Trotter, Rufe)

Mr. Quarry noted that Public Works started the leaf pickup and asked residents to contact the Borough office as needed.

C. Police (**Blatt**, Trotter, Johnson)

Chief Bachert stated that the new reporting system currently does not provide the usual monthly police reports. He also reported that the unused medication drive was completed recently.

D. House & Ordinances (**Rufe**, Halleman, Jordan)

Mr. Rufe reported that the Lighting ordinance, rental definition, and potential speeding limitations on Long Street were discussed. The committee did not find a large-scale speeding problem on Long Street requiring to take any action. He asked to notify the residents accordingly.

E. Fire (**Trabel,** Halleman, Rufe)

Mr. Trabel reported that the delivery of new fire truck might be postponed to February 2022.

The Christmas Tree sale will start again a week early like last year (before Thanksgiving); each tree will sell for $40. Details will be published on the Volunteer Fire Department's facebook page.

Dave Boehrer recited some of the fire report incidents. He also stressed again that volunteers are still needed - training and gear will be provided.
Since the Borough Manager is qualified and fully licensed to drive the critical Fire Vehicles, Dave Boehrer asked if Mr. Gratz would be allowed to drive a truck during. the daytime – as his time allows – when no volunteer is available.
Council and Mr. Gratz consented.

F. Recreation (**Johnson**, Rufe, Trabel)

Ms. Johnsont thanked resident for participation in trick or treating.
She also reminded that a Tree Lighting ceremony will be held on Sunday, December 5th at 4 pm. Light refreshments will be served, and Santa will be on site.
Ms. Jordan noted that in the past year residents had asked to delay the ceremony to 5 pm because it was still light at 4 pm. Ms. Johnson will coordinate with the Fire Department.

G. Health & Sanitation (**Halleman**, Johnson, Trabel)

Ms. Halleman read the Sewer & Garbage collection reports for October.

H. Personnel (**Trotter,** Blatt, Jordan) - none

SPECIAL OR SELECT COMMITTEES

Ms. Jordan reported that "Books on the Hill" is going well.

PRIVILEGE OF THE FLOOR – Discussion on Non - Agenda Items

The resident of 678 Ostrum Steet, introduced himself as the Region 1 appointed Director. He serves as the neighborhood candidate for the school board.

EXECUTIVE SESSION (as needed) - none

ADJOURNMENT

At 7:49 PM Council President Blatt asked for a motion to adjourn. Ms. Johnson made the motion, seconded by Ms. Jordan and unanimously approved.

****

BOROUGH OF FOUNTAIN HILL
LEHIGH COUNTY, PENNSYLVANIA

By: _____
Norman E. Blatt Jr.- President of Council

SUBMITTED
By: _____
Cordula Voges, Finance Director

ATTEST:
By: _____
Eric Gratz, Borough Manager

Next Ordinance – 865
Next Resolution – 2021-18

FOUNTAIN HILL BOROUGH COUNCIL
MINUTES
December 6, 2021
7:00 P.M

The Council Meeting was held in-person at Borough Hall. Council members present were: Ms. Jordan, Mr. Blatt, Mr, Trotter, and Mr. Trabel, Mayor Gifford attended via phone. Mr. Rufe, Ms. Johnson, and Ms. Halleman were absent. Also, in attendance were Eric Gratz (Borough Manager), Ed Bachert (Police Chief), Dave Boehrer (Fire Chief) and guests.

Council President Blatt called the meeting to order and asked for everyone to rise for the Pledge to the Flag

MINUTES

Council President Blatt asked for a motion to approve the minutes of November 10, 2021 as amended.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel		x	x			
Helen Halleman						x
Norman E. Blatt Jr.			x			
Mayor Gifford						

Council President Blatt asked for a motion to approve the minutes of November 17, 2021 as amended.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter		x	x			
Philip Trabel			x			
Helen Halleman						x
Norman E. Blatt Jr.			x			
Mayor Gifford						

APPROVED

PRIVILEGE OF THE FLOOR/ PRE-SCHEDULED

- 1336 Russell Ave Development

Attorney Erv McLain, representing 1336 Russell Ave Land Development, LLC, introduced Mr. Gabe Solms, Ashley Development Corporation and Mr. Sean Dooley, Keystone Consulting Engineers to present the current status of the 1336 Russell Ave Development plans to Council.

Mr. Solms referred to previous residential projects similar to the planned 1336 Russell Ave development. He identified potential customers ranging from young professionals to 55 and up folks. Mr. Solms delineated the history of this project from its purchase in 2019 to the subsequent reviews by the Zoning & Hearing Board and the Planning Commission.

Mr. Dooley continued to describe the site location and size. The property has access to public water, sewer, gas and storm sewer with two tanks draining to a system of pipes and eventually releasing storm water into a system of inlets. 18 apartments with 36 parking spaces are planned. The construction will increase the impervious area, as it relates to storm water, by only 4,000 sqft. The access road to the building is essentially a cul-de-sac – yet large enough for a fire ladder truck to go all the way around. The Fire Chief inquired if an additional fire hydrant would be installed. Mr. Dooley explained that only the existing fire hydrant would be replaced by a new one. The Police Chief, the Public Works Supervisor, and Hanover Engineering agreed, that after reviewing the plans they are satisfied with the plans at this stage.

Keystone Consulting Engineers requests on behalf of the developer to waive the requirement of a sub-street to serve no more than 25 dwelling units.
Council President Blatt asked for a motion to approve the waiver.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan		x	x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter	x		x			
Philip Trabel			x			
Helen Halleman						x
Norman E. Blatt Jr.			x			
Mayor Gifford						

On behalf of the developer, Keystone Consulting Engineers request that the requirement of the submission of a preliminary plan and a final plan will be waived due to the limited development that is proposed.
Council President Blatt asked for a motion to approve the waiver.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan		x	x			
Jamie Johnson						x

APPROVED

Wilbert Rufe						x
Doug Trotter	x		x			
Philip Trabel			x			
Helen Halleman						x
Norman E. Blatt Jr.			x			
Mayor Gifford						

MAYOR'S REPORT

Mayor Gifford reminisced on the festive Holiday Lighting Contest.

She also thanked the residents for having placed confidence in her for many years of service as a Council Member and Mayor.
On behalf of Council President Blatt thanked her for her service.

BOROUGH MANAGER'S REPORT

- Moravia Street one-way for school drop-off and pick-up
  Mr. Gratz reported that the first day of the school traffic trial did go smoothly and will be continued to be monitored.

- Smoke Alarms
  Mr. Gratz reminded residents to frequently check the batteries in an effort to make homes safer.
- Warren Street winter parking
  Mr. Gratz reminded residents to observe winter parking rules to allow for snow removal.

NEW BUSINESS – None.

APPROVED

RESOLUTIONS

RESOLUTION NO. 2021 - 18

A RESOLUTION OF THE FOUNTAIN HILL BOROUGH, LEHIGH COUNTY, COMMONWEALTH OF PENNSYLVANIA, FIXING THE TAX RATE FOR THE YEAR 2022

NOW, THEREFORE, BE IT RESOLVED by the Borough Council of the Borough of Fountain Hill, Lehigh County, Pennsylvania:

THAT a tax be and the same is hereby levied on all real properties within the Borough of Fountain Hill subject to taxation for the fiscal year 2022 as follows:

SECTION 1. Tax rate for general purposes, the sum of 9.13 mills on each dollar of assessed valuation, or the sum of $0.913 on each one hundred dollars of assessed value.

SECTION 2. Tax rate for the Fire Department, the sum of 0.08 mills on each dollar of assessed valuation, or the sum of $0.008 on each one hundred dollars of assessed value.

SECTION 3. Tax rate for Library Services, the sum of 0.40 mills on each dollar of assessed valuation, or the sum of $0.040 on each one hundred dollars of assessed value

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan		x	x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel	x		x			
Helen Halleman						x
Norman E. Blatt Jr.			x			
Mayor Gifford						

APPROVED

RESOLUTION NO. 2021 - 19

A RESOLUTION OF THE FOUNTAIN HILL BOROUGH COUNCIL APPROVING THE FOLLOWING MEETING SCHEDULE CALENDAR FOR 2022

BE IT RESOLVED that the Borough Council of the Borough of Fountain Hill does hereby approve the Meeting Schedule Calendar for 2022 as follows:

NOTICE OF MEETINGS

The following is a list of meeting schedules for calendar year 2022. All meetings will be held in Borough Hall, 941 Long Street, Fountain Hill, PA:

2022 COUNCIL MEETINGS: First Monday of each month @ 7:00 pm; Third Wednesday of each month @ 7:00 pm unless otherwise noted.

Planning Commission: Second Monday of each month @ 7 p.m. as needed.

Zoning Hearing Board: Third Monday of each month @ 7 p.m. as needed.

Stormwater Authority: Second Wednesday of each month @ 6 p.m. as needed

Committee Meetings: as needed
Police Committee – First Monday starting at 5:45
Finance, Public Works Personnel, House & Ordinance: First Wednesday of each month starting at 5:30 p.m.
Fire, Health & Sanitation, Recreation – Third Wednesday of each month starting at 5:30 p.m.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter		x	x			
Philip Trabel	x		x			
Helen Halleman						x
Norman E. Blatt Jr.			x			
Mayor Gifford						

ORDINANCES – none

MOTIONS

- Council President Blatt asked for a motion to approve to hire Tristen Gambino as a full-time Public Works employee as recommended by the Public Works Committee (Start Date 12/7/2021)

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson						x

Wilbert Rufe						x
Doug Trotter		x	x			
Philip Trabel			x			
Helen Halleman						x
Norman E. Blatt Jr.			x			
Mayor Gifford						

- Council President Blatt asked for a motion to adopt the Preliminary 2022 budget as the Final 2022 Budget

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter		x	x			
Philip Trabel			x			
Helen Halleman						x
Norman E. Blatt Jr.			x			
Mayor Gifford						

- Council President Blatt asked for a motion to approve the payment to Pipe Services Corp. in the adjusted amount of $25,754.51 as recommended by the borough engineer.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter		x	x			
Philip Trabel	x		x			
Helen Halleman						x
Norman E. Blatt Jr.			x			
Mayor Gifford						

- Council President Blatt asked for a motion to pay the bills through the end of December, if the 2nd meeting is cancelled due to lack of business.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan		x	x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel	x		x			
Helen Halleman						x

APPROVED

Norman E. Blatt Jr.			x			
Mayor Gifford						

OLD BUSINESS

Mr. Trabel asked about the residents' complaints regarding trash pickup.
Mr. Gratz reported that Republic Services has been very responsive and resolved any missed pickups.

COUNCIL PRESIDENT'S REPORT

Council President Blatt thanked everybody for enabling a beautiful tree lighting ceremony.
He wished everyone Happy Holidays.
He thanked Mayor Gifford for her 16 years of service both as a council member and as a mayor.
He also thanked Ms. Halleman for her longstanding service as a council member.

SOLICITOR'S REPORT – None.

COMMITTEE REPORTS

Finance (Trotter, Blatt, Jordan)

Mr. Trotter motioned to pay the bills as presented.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan		x	x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter	x		x			
Philip Trabel			x			
Helen Halleman						x
Norman E. Blatt Jr.			x			
Mayor Gifford						

Public Works (Jordan, Trotter, Rufe)
Mr. Quarry noted that Public Works will continue to pick up leaves until December 17.

Police (Blatt, Trotter, Johnson)

Chief Bachert mentioned that an active shooter drill together with St Luke's will be held in the upcoming week.

APPROVED

House & Ordinances (Rufe, Halleman, Jordan) - None

Fire (Trabel, Halleman, Rufe)

Mr. Trabel read the November fire report.
He also reminded that the annual Santa ride will be held on December 18. Details will also be available on the fire department's fb site.

Recreation (Johnson, Rufe, Trabel) – None.

Health & Sanitation (Halleman, Johnson, Trabel)

Council President Blatt read the November sewer/garbage collection reports.

He also inquired about the current status of the delinquent accounts. Mr. Gratz reported that the solicitor's collection efforts have been very successful.

Personnel (Trotter, Blatt, Jordan) – None

SPECIAL OR SELECT COMMITTEES

Fire Chief Boehrer updated on the delivery of the new fire engine and is hoping for a final review in 150 days.

Ms. Jordan thanked the Borough for letting her serve on the library board for all these years and supporting the library services for the Borough residents.

PRIVILEGE OF THE FLOOR – Discussion on Non - Agenda Items

Ms. Joann Reed of 833 N Clewell St complained and questioned the legality of putting up a lighted sign on 725 Delaware Ave.
Mr. Gratz responded that it is permissible within the set hours and is within code. He reminded that Council has the right to change the underlying ordinance if it wishes to do so.

EXECUTIVE SESSION (as needed) – None.

ADJOURNMENT

At 8:00 PM Council President Blatt asked for a motion to adjourn. Mr. Trabel made the motion, seconded by Ms. Jordan and unanimously approved.

APPROVED

By:

_____

Norman E Blatt Jr - President of Council

SUBMITTED:

BY: _____

Cordula Voges, Finance Director

ATTEST:

By: _____

Eric Gratz, Borough Manager

Next Ordinance – 865
Next Resolution – 2021 - 20

APPROVED

FOUNTAIN HILL BOROUGH COUNCIL
MINUTES
March 7, 2022
7 P.M.

The Council Meeting was held in-person at Borough Hall. Council members present were: Ms. Jordan, Ms. Johnson, Mr. Rufe, Mr. Trotter, Mr. Blatt, Ms. Graham, and Mayor Johnson. Also, in attendance were Eric Gratz (Borough Manager), Cordula Voges (Finance Director), Dave Berger (Solicitor), and guests.

Council President Blatt called the meeting to order and asked for everyone to rise for the Pledge to the Flag.

MINUTES

Council President Blatt asked for a motion to approve the minutes of February 7, 2022.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson			x			
Wilbert Rufe			x			
Doug Trotter			x			
Philip Trabel		x	x			
Erica Graham			x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

PRIVILEGE OF THE FLOOR/ PRE-SCHEDULED

Mr. Garrett Podhyski, Assistant Principal of Fountain Hill Elementary School, reported on the experience with the school traffic trial that has been in place since December 2021. He summarized, that 496 children attend Fountain Hill Elementary School of which 130 children are bussed in. He stressed that it is the school's policy to accompany any kindergarten and first grade student who are dropped off to the school's entrance. He is advocating to make the temporary one-way traffic on Moravia Street and Garden Street permanent during the morning/afternoon school hours and have a crossing guard on site there. He thanked Mayor Johnson for having volunteered as a crossing guard during the past month.

To further secure the school traffic Mr. Podhyski requested "Speed Limit" signage around the school and "No Parking" signage – both in English and Spanish –on Church St, Greene Ct, and Garden St during those morning/afternoon school hours. Mr. Blatt referred to the Borough Manager to respond to Mr. Podhyski.

Mr. Gratz pointed out that the vehicle code defines a "school zone" and that a PennDOT approval is required for implementing a school zone speed limit. In addition, the Borough Code requires as

traffic study for any change in school traffic patterns. He suggested to further discuss this issue at a future meeting.

MAYOR'S REPORT

Mayor Johnson confirmed that moving the "Crossing Guard" from Broadway to Church Street in front of Fountain Hill Elementary School helped make school traffic more secure.

BOROUGH MANAGER'S REPORT

- Council Chambers Video Streaming & Retention

Mr.Gratz reported that video streaming is ready to go live. It allows residents to view at any time (without interaction though). Other participants can conference in. Upon Mr. Gratz's recommendation Council consented to store the live streams on its youtube channel. Mr. Berger recommended to formally express Council's decision in a resolution. Mr. Gratz will prepare and present the respective resolution at the next Council Meeting.

- USDA Community Facilities Direct Loan & Grant Program

This program provides affordable funding to develop essential community facilities in rural areas. An essential community facility is defined as a facility that provides an essential service to the local community for the orderly development of the community in a primarily rural area, and does not include private, commercial or business undertakings. Funds can be used to purchase, construct, and / or improve essential community facilities, purchase equipment and pay related project expenses.

Low interest direct loans, grants, or a combination of both are available. Applications for this program are accepted year-round. Funding, if approved, would be used to purchase a new dump truck.

- PennDOT HOP (Highway Occupancy Permit) Update

Mr. Gratz reported that PennDOT approved the Broadway Curb & Sidewalk project (funded through MTF Grant 2019) without residents' permissions.

- **NEW BUSINESS**
  - Letter from Mr. John Kopyar regarding Ronca Street Parking

Mr. Gratz presented the letter from Mr. Kopyar asking to address cars parked on both sides of Ronca Street between S Bergen and Lynn Streets preventing proper traffic flow for cars and service vehicles alike. Mr. Gratz suggested to draft an ordinance directing the traffic.
Council consented.

- Discussion on Missed Trash/Recycling Pickups

Mr. Gratz provided documentation of frequently missed garbage pickups for the month of February 2022. He also stated that contractors are facing staff shortages and high staff turnover creating problems with the quality of service. In reference to the current contract with Republic Services, the Borough has the right to deduct from the monthly payments made to Republic Services for contract violations or terminate the contract. In regard to the contract termination option Mr. Berger pointed out that only one other contractor had submitted a bid which was much higher than Republic Services' bid. Council agreed that deductions are preferred over contract termination. It was agreed that the validity of the complaints will have to be verified before any payment deductions are taken.

- Zoning Hearing Board Vacancies & Solutions

The Zoning Hearing Board has two vacancies to fill.
The Borough Code allows to drop membership to three members only with one alternate.
The other option is to seek a joint community Zoning Hearing Board with other municipalities.
Mr. Gratz pointed out that a joint community Zoning Hearing Board is unrealistic because neighboring Lower Saucon and Salisbury have full boards.
Mr. Gratz recommended to reduce the board to only three members with one alternate.
Council agreed and asked Mr. Gratz to prepare a respective amendment to the ordinance.

- Mask Policy – New CDC Guidance – Lehigh County Low Level

Mr. Gratz reported that Lehigh County follows the new CDC guidance to make mask wearing optional during times of low level COVID infections. He suggested to adopt the same policy.
Council consented.

- Large Truck Parking – Chief Bachert

Chief Bachert suggested to amend the respective ordinance regulating large truck parking. To be more effective he suggested to exclude warning and restructure the fines.
Council President Blatt assigned the matter to the House & Ordinance Committee.

Chief Bachert reported that he received an invitation to participate in a contract with a private company "Bus Patrol" to automatically fine any offenders for illegally passing school buses with a $300 administrative fine. Since these "administrative" fines will be difficult to enforce, he considered to not participate in the "Bus Patrol" program.

- **RESOLUTIONS**

BOROUGH OF FOUNTAIN HILL
RESOLUTION NO. 2022 - 13

A RESOLUTION OF THE BOROUGH COUNCIL OF THE BOROUGH OF FOUNTAIN HILL, LEHIGH COUNTY, PENNSYLVANIA, TO APPOINT THE BOROUGH FIRE MARSHAL AS THE FIRE INSPECTOR.

Council President Blatt asked for a motion to expand Mr. Ray Anthony's role as Fire Marshall to also include fire inspections, as Borough Code allows it.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson			x			
Wilbert Rufe			x			
Doug Trotter		x	x			
Philip Trabel	x		x			
Erica Graham			x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

BOROUGH OF FOUNTAIN HILL
RESOLUTION NO. 2022 - 14

A RESOLUTION OF THE FOUNTAIN HILL BOROUGH COUNCIL APPOINTING THE FOLLOWING INDIVIDUALS FOR CALENDAR YEAR 2022

Planning Commission

Parmita Perna-Rios	4-year term	3/7/2022 – 12/31/2025

Ms. Perna-Rios agreed to continue to serve on the Planning Commission. Council President Blatt asked for a motion to re-appoint her.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson			x			
Wilbert Rufe			x			
Doug Trotter			x			
Philip Trabel		X	x			
Erica Graham			x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

- **ORDINANCES none**

- **MOTIONS**
  - Approve the hiring of a second part-time zoning clerk, not to exceed 20 hours per week. Referred from Personnel Committee

Mr. Gratz reported that the hiring of the second part-time zoning clerk would help better cover zoning administration. The Personnel Committee approved the additional hiring. A qualified candidate is on hand.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson	x		x			
Wilbert Rufe				x		
Doug Trotter		x	x			
Philip Trabel			x			
Erica Graham			x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

- Authorize the Borough Manger to submit Local Share Grant application for a new police SUV

The PA Race Horse Development and Gaming Act (Act 2004-71) provides for the distribution of gaming revenues through the Commonwealth Financing Authority (CFA) to support projects in the public interest within the Commonwealth of Pennsylvania (former "Casino Grant"). The deadline to submit an application to the CFA is March 15, 2022. Council President Blatt asked for a motion to authorize the Borough Manager to submit the respective application.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan		x	x			
Jamie Johnson			x			
Wilbert Rufe			x			
Doug Trotter			x			
Philip Trabel	x		x			
Erica Graham			x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

- Authorize the Borough Manger to place the old fire engine on Municibid for sale

Chief Boehrer confirmed that all equipment has been removed from the old fire engine. Council President Blatt asked for a motion to authorize the Borough Manger to advertise the old fire engine.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson		x	x			
Wilbert Rufe			x			

Doug Trotter			x			
Philip Trabel	x		x			
Erica Graham			x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

- Financial responsibility for Sioux Street Sidewalks with paving project area

The sidewalk repairs within the scope of the Sioux Street Reconstruction project are not eligible for Liquid Fuel funding. The cost for the sidewalk only is estimated to be $46,875. Even though the cost is included in the General Fund Budget for 2022, the Borough could still ask for homeowners' responsibility.
Hanover Engineering will start the bidding in April and the work is scheduled for June.
Council agreed that it is too late to address homeowners. Council President Blatt asked for a motion to authorize the Borough to pay for the sidewalk improvements.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson			x			
Wilbert Rufe			x			
Doug Trotter		x	x			
Philip Trabel			x			
Erica Graham			x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

- Approve Payment Application #7 and #8 to Pipe Services Corporation as recommended by the Borough Engineer

Council President Blatt asked for a motion to approve the above.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson	x		x			
Wilbert Rufe			x			
Doug Trotter			x			
Philip Trabel		x	x			
Erica Graham			x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

- **OLD BUSINESS** none

- **COUNCIL PRESIDENT'S REPORT**
  - New Fire Truck Dedication Event - 3/23 11am SLUHN Lobby A

Council President Blatt reminded of the above dedication event on Wednesday March 23, 2022.

- **SOLICITOR'S REPORT**
  - Right To Know Officer (RTK)

Mr. Berger suggested for a Borough employee to take back the RTK function since most request relate to Borough internal facts. Mr. Gratz offered to take on that responsibility.
Mr. Gratz will prepare a respective resolution and present to Council at the next council meeting.

- **COMMITTEE REPORTS**

A. Finance (**Trotter,** Blatt, Jordan)
  - Motion to pay the bills as presented

Mr. Trotter read the February payment reports and asked for a motion to approve the payments.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson		x	x			
Wilbert Rufe			x			
Doug Trotter	x		x			
Philip Trabel			x			
Erica Graham			x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

B. Public Works (**Jordan**, Trotter, Rufe) none

C. Police (**Blatt**, Trotter, Johnson)

Chief Bachert reported that the Police will start payring special attention to the Playground area.

D. House & Ordinances (**Rufe**, Graham, Jordan)

Mr. Rufe reported that a sample ordinance regarding lighting that Mr. Lehr had prepared is still under review.

E. Fire (**Trabel,** Graham, Rufe)

Mr. Trabel presented the February fire report.

F. Recreation (**Johnson**, Rufe, Trabel)

Ms. Johnson announced that the park and pool programs will be discussed at the next committee meeting.

G. Health & Sanitation (**Graham**, Johnson, Trabel)

Ms. Graham read the February Sewer/Garbage collection report.

H. Personnel (**Trotter,** Blatt, Jordan) none

- **SPECIAL OR SELECT COMMITTEES**

Chief Bachert asked to have a police committee meeting soon.

- **PRIVILEGE OF THE FLOOR** – Discussion on Non - Agenda Items

Mr. Richard Kennedy of 630 S Bergen Street asked if trash collection could be the homeowner's choice only versus a borough contract. Council President Blatt responded that there was never much interest from Council in that option.

- **EXECUTIVE SESSION** (Personnel & Litigation)

At 8:09 PM Council President Blatt asked the public to leave for an executive session. He asloo announced that Council will not return afterwards.

- **ADJOURNMENT**

Council President Blatt asked for a motion to adjourn the public meeting at 8:09 PM.
Ms. Johnson made the motion, seconded by Ms. Johnson and unanimously approved.

BOROUGH OF FOUNTAIN HILL
LEHIGH COUNTY, PENNSYLVANIA

By:

_____

Norman E Blatt - President of Council

SUBMITTED:

BY: _____

Cordula Voges, Finance Director

ATTEST:

Approved

By: _____

Eric Gratz, Borough Manager

Next Ordinance – 867
Next Resolution – 2022-15

Approved

FOUNTAIN HILL BOROUGH COUNCIL
MINUTES
March 23, 2022
7 P.M.

The Council Meeting was held in-person at Borough Hall. Council members present were: Ms. Jordan, Mr. Trotter, Mr. Blatt, Ms. Graham, and Mr. Trabel. Ms. Johnson, Mr. Rufe, and Mayor Johnson were absent. Also, in attendance were Eric Gratz (Borough Manager), Cordula Voges (Finance Director), and guests.

Council President Blatt called the meeting to order and asked for everyone to rise for the Pledge to the Flag.

MINUTES

Council President Blatt asked for a motion to approve the minutes of February 7, 2022 as requested by Ms. Jordan.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel		x	x			
Erica Graham			x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

Council President Blatt also reported that Mr. Wargo's job performance as Zoning Officer and Mr. Gratz's compensation were discussed during the Executive Session after the March 7, 2022 Council Meeting.

PRESENTATION(S) - None

PRIVILEGE OF THE FLOOR/ PRE-SCHEDULED - None

- **RESOLUTIONS**

RESOLUTION NO. 2022- 15

A RESOLUTION OF THE BOROUGH COUNCIL OF THE BOROUGH OF FOUNTAIN HILL, LEHIGH COUNTY, PENNSYLVANIA, AUTHORIZING APPLICATION FOR A GRANT FROM THE PENNSYLVANIA DEPARTMENT OF COMMUNITY AND ECONOMIC DEVELOPMENT FOR LOCAL SHARE ACCOUNT FUNDS.

Council President Blatt asked for a motion to approve the above resolution as requested by Mr. Trabel. Mr. Gratz confirmed that the application was already submitted after the respective discussion at the March 7, 2022 Council Meeting.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter		x	x			
Philip Trabel	x		x			
Erica Graham			x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

RESOLUTION NO. 2022- 16

A RESOLUTION OF THE BOROUGH OF FOUNTAIN HILL IN THE COUNTY OF LEHIGH, COMMONWEALTH OF PENNSYLVANIA TO AMEND RESOLUTION 2020-29 "SOCIAL MEDIA USE POLICY & PROCEDURE REGULATIONS" TO PROVIDE FOR THE SHARING OF COUNCIL MEETING VIDEO ON SOCIAL MEDIA.

Council President Blatt asked for a motion to amend the current Social Media Use Policy to the effect of including to upload and save council meetings in a video set on social media as requested by Ms. Jordan.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel			x			
Erica Graham		x	x			

Norman E. Blatt Jr.			x			
Mayor Johnson						

RESOLUTION NO. 2022- 17

A RESOLUTION OF THE BOROUGH COUNCIL OF THE BOROUGH OF FOUNTAIN HILL, LEHIGH COUNTY, PENNSYLVANIA, AUTHORIZING NEW SIGNATORIES FOR AN AWARDED MTF GRANT FROM THE PENNSYLVANIA DEPARTMENT OF COMMUNITY AND ECONOMIC DEVELOPMENT FOR CURB AND SIDEWALK REPAIR.

Council President Blatt asked for a motion to extend and amend the authorized signatories for the Multimodal Transportation Fund (MTF) grant 2019 as requested by Mr. Trabel.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel	x		x			
Erica Graham		x	x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

ORDINANCES - None

MOTIONS

- Council President Blatt asked for a motion to accept Mr. Tom Wargo's resignation as the Borough's Code Enforcement and Zoning Officer as of 3/8/2022 as requested by Mr. Trabel.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel	x		x			
Erica Graham		x	x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

- As recommended by the Solicitor, Council President Blatt asked for a motion to appoint the Borough Manager as the Right to Know Officer as requested by Mr. Trabel.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter		x	x			
Philip Trabel	x		x			
Erica Graham			x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

- Council President Blatt asked for a motion to appoint the Borough Manager as the Interim Zoning Officer as requested by Mr. Trabel.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan		x	x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel	x		x			
Erica Graham			x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

- Council President Blatt asked for a motion to approve the compensation adjustment for the Borough Manager as discussed in the Executive Session on March 7, 2022 as requested by Mr. Trabel.

The 8% increase will be effective on his 6-month anniversary.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel		x	x			
Erica Graham			x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

- Council President Blatt asked for a motion to approve a fee waiver to Broughal Middle School for the use of the softball field at the Borough Park for softball games and practice as requested by Mr. Trabel.

The Recreation Committee is in favor of this motion.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel	x		x			
Erica Graham		x	x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

- Directing the Borough Manager on how to proceed with the Borough Pool and its operation

Mr. Gratz reported on the Recreation Committee meeting of March 7, 2022. Ms. Jordan stood in for Ms. Johnson who was unable to attend. Mr. McCandless of 1011 Pawnee Street stressed the financial burden that the operation of a swimming pool places on the Borough. He also noted that fewer residents have been attending the Fountain Hill pool. He suggested to consider using the public space as a sprinkler park and a dog park instead. Based on the deliberations in the Recreation Committee the committee recommended to permanently close the pool.
Mr. Gratz asked to direct him either to follow the Recreation Committee's recommendation to permanently close the pool or, as an alternative, simply not open the pool this season. Mr. Quarry, the Public Works Supervisor, emphasized that the pool still needs to be maintained as if it is open.
With regret, Council President Blatt asked for a motion to follow the Recreation Committee's recommendation and close the pool permanently as requested by Ms. Jordan.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel		x	x			
Erica Graham				x		
Norman E. Blatt Jr.				x		
Mayor Johnson						

Mr. Gratz initially thought that the 3-2 roll call vote to close the pool permanently was not sufficient and the subject needed to be re-introduced at the next Council meeting. However, after consulting with the Solicitor, Mr. Berger confirmed that the vote by that 3-2 margin was indeed a valid action of Council. This decision was made after a community survey, a community meeting, and an open recreation committee meeting.

- Council President asked for a motion to approve the advertisement of the Draft Ordinance #867 as requested by Ms. Jordan.

DRAFT ORDINANCE NO. 867

AN ORDINANCE AMENDING THE CODE OF ORDINANCES OF THE BOROUGH OF FOUNTAIN HILL, CHAPTER 15, PART 3, §302 PROHIBITIONS IN SPECIFIC PLACES, AMENDING SCHEDULE 1 (A) TO PROHIBIT PARKING ON THE SOUTH SIDE OF RONCA STREET FROM THE INTERSECTION WITH LYNN STREET TO THE INTERSECTION WITH BERGEN STREET.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel		x	x			
Erica Graham				x		
Norman E. Blatt Jr.				x		
Mayor Johnson						

Council President asked Mr. Gratz to notify affected residents accordingly.

- Council President asked for a motion to approve the advertisement of the Draft Ordinance #868 as requested by Mr. Trabel.

DRAFT ORDINANCE NO. 868

AN ORDINANCE AMENDING THE CODE OF ORDINANCES OF THE BOROUGH OF FOUNTAIN HILL CHAPTER 27, ZONING, PROVIDING FOR THE REDUCTION OF THE ZONING HEARING BOARD FROM FIVE (5) MEMBERS TO THREE (3) MEMBERS AND ONE (1) ALTERNATE MEMBER WHO ARE RESIDENTS OF THE BOROUGH.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel	x		x			
Erica Graham		x		x		
Norman E. Blatt Jr.				x		
Mayor Johnson						

Mr. Gratz explained that the alternate is to attend the board meetings but will only vote if a regular member is not attending in order to still have a voting body of three.

OLD BUSINESS

Council President Blatt reminded of the Easter Egg Hunt on April 9 at the playground.

He also thanked everyone who attended the dedication ceremony of the fire truck.

DISCUSSION ITEMS (NEW BUSINESS)

Mr. Gratz reported that Officer Fritzinger will participate in the DUI Speed enforcement event.

- Discussion on Non - Agenda Items – None.

EXECUTIVE SESSION (as needed) – None

PRIVILEGE OF THE FLOOR ADJOURNMENT

Council President Blatt asked for a motion to adjourn the public meeting at 7:20 PM.
Mr. Trabel made the motion, seconded by Ms. Graham and unanimously approved.

BOROUGH OF FOUNTAIN HILL
LEHIGH COUNTY, PENNSYLVANIA

By:

_____

Norman E Blatt - President of Council

SUBMITTED:

BY: _____

Cordula Voges, Finance Director

ATTEST:

By: _____

Eric Gratz, Borough Manager

Next Ordinance – 870
Next Resolution – 2022 - 18



FOUNTAIN HILL BOROUGH COUNCIL
MINUTES
May 2, 2022
7 P.M.

The Council Meeting was held in-person at Borough Hall. Council members present were: Ms. Jordan, Ms. Johnson, Mr. Trotter, Mr. Blatt, and Mr. Trabel. Mr. Rufe and Ms. Graham were absent. Also, in attendance were Eric Gratz (Borough Manager), Dave Berger (Solicitor), and guests.

Council President Blatt called the meeting to order and asked for everyone to rise for the Pledge to the Flag.

Council President Blatt welcomed Lehigh County Executive Phillips Armstrong to the meeting. Mr. Armstrong thanked the Borough for allowing the County to place the ballot box at Borough Hall. When inquired by Mr. Trabel Mr. Armstrong reported that different kind of assistance is available to ensure that every eligible voter can cast a vote, be it in person, mail-in ballot or proxy ballot.
He also announced that Lehigh County created the new position of County Liaison and introduced Yorman De La Rosa who will be tasked to foster the communication between local government and community groups.

MINUTES

- Approval of the minutes of April 20, 2022

Council President Blatt asked for a vote on a motion by Ms. Jordan to approve the Minutes of April 20, 2022 as amended.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson			x			
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel		x	x			
Erica Graham						x
Norman E. Blatt Jr.			x			
Mayor Johnson						

Approved

PRIVILEGE OF THE FLOOR/ PRE-SCHEDULED

- Mr. Michael Zovko of 507 Greene Ct. stressed again his interest in forming a citizens' committee in the hopes of getting a community center where the pool would be a critical part of it. He asked Council again to seriously re-consider the permanent closing of the pool and with the help of the citizens' committee find ways to realize a future community center.
- Ms. Margaret Beier of 1412 Graham St. shared Mr. Zovko's initiative to keep the pool open.
- Ms. Carolee Fuzza, a former resident of Fountain Hill, also addressed Council in support of the pool. She had contacted Ms. Laurie Moyer, Lehigh County Grants Management Specialist, and reported that a special Community Development Block grant is available to fund the pool. However, the grant stipulates that only Fountain Hill residents will be allowed to use the pool. Ms. Fuzza also mentioned community fundraising to help operate the pool and offered her support for these community efforts.
  Mr. Gratz explained that Council has to authorize to authorize him to apply for the grant. In addition, Mr. Gratz pointed out that staffing shortage is another issue regarding the pool operation. Mr. Gratz referred Ms. Fuzza to the upcoming citizens' meeting on May 12, 2022 at Borough Hall and invited her to attend.

Council President Blatt reported that an executive session was held after the public meeting on April 20, 2022 to discuss the replacement of the Zoning Officer. No action was taken.

MAYOR'S REPORT

Mayor Johnson thanked St. Luke's for the invitation to sit in on Admiral Levine's roundtable discussion on mental health. Mayor Johnson also "threw the first pitch" at the Fountain Hill's Little League first game.
He thanked Council President Blatt and Mr. Quarry (Public Works Supervisor) and the Shade Tree Commission for putting the program together for Arbor Day.

BOROUGH MANAGER'S REPORT

The Borough had reached out through Zip recruiter and LinkedIn to recruit a new Zoning/Code Enforcement Officer. A qualified candidate is scheduled for an interview on May 3, 2022. In the meantime, the Borough Manager continues to facilitate zoning applications and reviews with the assistance of Mr. Berger (Solicitor) and the third-party code enforcement agency.

The 902 Grant from DEP (Department of Environmental Protection) was awarded in the amount of $35,000 to purchase recycling bins. The number of recycling bins to be purchased will be partially subsidized by Health & Sanitation Fund funds. The new recycling bins are the rolling kind and will still be sold for $10/piece.

The first tranche of ARPA (American Rescue Plan Act) funds was awarded in 2021 and dedicated to stormwater infrastructure improvements. The second tranche of ARPA will be disbursed sometime in June/July 2022 and Council will have to decide on the spending for that part of the award within the scope of the provisions of the act.

Approved

Mr. Gratz updated on the Broadway and other Borough road projects. He reported that the 2021 CDBG grant (Community Development Block Grant) for the total reconstruction of Jeter Avenue between Kieffer and Clewell was advertised for bidding. The 2022 CDBG was applied for by the deadline to help fund the continuation of the Jeter Avenue reconstruction.

UGI is expected to finish its work on Broadway in the 900 and 1400 blocks to replace the gas lines and updating the tie-ins of the individual sewer laterals to the main service lines. At the that time, the Borough is planning to start its curb and sidewalk project. Shortly thereafter, PennDOT is scheduled to mill and overlay Broadway and doing the handicapped ramps that are not in the scope of the Borough's project. Mr. Gratz pointed out that PennDOT's work might not be finished until the end of the year in anticipation of delays. After the completion of Broadway, the pedestrian crossing at Broadway/Delaware Ave – including signage and flashing lights – will be updated.

In addition, micro-surfacing will be done on Delaware and St. Luke's Place (funded through Liquid Fuel funds). Only rolling single lane closure will be needed for one day.

Also, Public Works will be tackling some alleys, starting with Maple Street.

Next, the 1100 block of Sioux Street and the total reconstruction of Warren Street will be going out for bidding next.

NEW BUSINESS

The Little League approached Mr. Quarry regarding the replacement of a water heater and new exterior lighting. The question is how much of the cost of material, manpower and labor does the Borough want to share. A lease agreement between the Little League and the Borough could not be located. Council President Blatt asked for Council's consensus to cover the above-mentioned cost. Ms. Johnson supported the cost sharing and suggested to update leasing records. Mr. Gratz will be discussing with the Little League if they only need the field or also the snack bar and building. Council consented to allow Public Works to help with the general maintenance items. Any extraordinary items will be brought to Council's attention.

RESOLUTIONS

RESOLUTION NO. 2022- 19

A RESOLUTION OF THE BOROUGH COUNCIL OF THE BOROUGH OF FOUNTAIN HILL, LEHIGH COUNTY, PENNSYLVANIA, AUTHORIZING PRICE ADJUSTMENT OF BITUMINOUS MATERIALS FOR SMALL QUANTITIES IN THE BID SPECIFICATIONS FOR 2022 ROAD PROJECTS.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			

Approved

Jamie Johnson		x	x			
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel	x		x			
Erica Graham						x
Norman E. Blatt Jr.			x			
Mayor Johnson						

RESOLUTION NO. 2022- 20

A RESOLUTION OF THE BOROUGH COUNCIL OF THE BOROUGH OF FOUNTAIN HILL, LEHIGH COUNTY, PENNSYLVANIA, AUTHORIZING AN INTERGOVERNMENTAL COOPERATION AGREEMENT BY AND BETWEEN THE CITY OF BETHLEHEM AND THE BOROUGH OF FOUNTAIN HILL FOR USE OF YARD WASTE FACILITY.

The intergovernmental agreement will formalize the past verbal agreement because the City of Bethlehem has some increases third-party cost that will lock the Borough in for three years.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson			x			
Wilbert Rufe						x
Doug Trotter		x	x			
Philip Trabel	x		x			
Erica Graham						x
Norman E. Blatt Jr.			x			
Mayor Johnson						

Approved

ORDINANCES FOR FINAL PASSAGE

ORDINANCE NO. 867

AN ORDINANCE AMENDING THE CODE OF ORDINANCES OF THE BOROUGH OF FOUNTAIN HILL, CHAPTER 15, PART 3, §302 PROHIBITIONS IN SPECIFIC PLACES, AMENDING SCHEDULE 1 (A) TO PROHIBIT PARKING ON THE SOUTH SIDE OF RONCA STREET FROM THE INTERSECTION WITH LYNN STREET TO THE INTERSECTION WITH BERGEN STREET.

The ordinance was properly advertised and the property owners whose properties abutted Ronca Street were notified as well.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			

Jamie Johnson			x			
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel		x	x			
Erica Graham						x
Norman E. Blatt Jr.			x			
Mayor Johnson						

ORDINANCE NO. 868

AN ORDINANCE AMENDING THE CODE OF ORDINANCES OF THE BOROUGH OF FOUNTAIN HILL CHAPTER 27, ZONING, PROVIDING FOR THE REDUCTION OF THE ZONING HEARING BOARD FROM FIVE (5) MEMBERS TO THREE (3) MEMBERS AND ONE (1) ALTERNATE MEMBER WHO ARE RESIDENTS OF THE BOROUGH.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson			x			
Wilbert Rufe						x
Doug Trotter	x		x			
Philip Trabel		x	x			
Erica Graham						x
Norman E. Blatt Jr.			x			
Mayor Johnson						

APPROVED

MOTIONS

- Council President Blatt asked for a vote on the motion made by Ms. Johnson to approve the sale of the 1996 KME Fire Engine for $8500.

The highest bidder on Municibid offered $8,500 after the fire engine was listed twice. The bidder is buying it for fire department in Peru and is replacing a 1973 fire engine.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson	x		x			
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel		x	x			
Erica Graham						x
Norman E. Blatt Jr.			x			

Mayor Johnson						

- Approving final payment to Pipe Services Corp. in the adjusted amount of $46,722.49 as recommended by the Borough Engineer (Video inspection of the sanitary sewer system including the main line and sewer laterals)

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson		x	x			
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel	x		x			
Erica Graham						x
Norman E. Blatt Jr.			x			
Mayor Johnson						

- Waiving the baseball field rental fee for Salisbury Youth Association in lieu of fieldwork and equipment use

The Salisbury baseball field has a sink hole and cannot be used. The Salisbury Youth Association worked out a use schedule with the Fountain Hill Little League and is asking to waive the baseball field rental fee in lieu of fieldwork and equipment use provided by them for this season.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson			x			
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel		x	x			
Erica Graham						x
Norman E. Blatt Jr.			x			
Mayor Johnson						

Approved

- Waiving the baseball field rental fee for Southside Slugger Youth Baseball 16u in lieu of fieldwork and equipment use

A lot of Fountain Hill children are involved in this group as they aged out of the Fountain Hill Little League. The Southside Slugger Youth Baseball provide the liability in the insurance as required. They also ask to waive the baseball rental fee in lieu of fieldwork and equipment.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson	x		x			
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel		x	x			
Erica Graham						x
Norman E. Blatt Jr.			x			
Mayor Johnson						

Approved

OLD BUSINESS

- Fountain Hill Pool

Council President Blatt referred to the recent public discussion regarding the permanent closure of the pool. He re-iterated the Borough's efforts reaching out to the community for its sentiment on the future use of the pool. He acknowledged the most recent public support to keep the pool open and therefore, he asked for Council's opinion on how to move forward.

Ms. Jordan explained her recent motion to permanently close the pool because of the lack of the public's interest in it. In light of Mr. Zovko's citizens' initiative, she is willing to re-consider and simply maintain the pool in 2022 and wait for the outcome of Mr. Zovko's citizens' initiative. Ms. Johnson supported that suggestion.

Mr. Berger intervened and explained that a motion amending the recent motion to permanently close the pool would be needed to keep the pool pumps running in 2022. A motion is needed for Council to consider the amendment of the recent motion. When inquired by Mr. Trabel, Mr. Quarry explained that the pool is currently fully drained. He wanted to know if the required repairs to operate the pool in the future should be entertained now. Mr. Gratz suggested to wait for the upcoming citizens' meeting and evaluate the sincerity of the public's interest before funds are committed to the pool. In the meantime, Mr. Gratz will also get some information from Lehigh County's grant specialist regarding pool funding. Mr. Berger emphasized that a procedural vote is needed at the June Council meeting if amendment is sought.

Council President Blatt asked for a motion to reconsider amending the motion to close the pool. Ms. Johnson made the motion, seconded by Mr. Trotter.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson	x		x			
Wilbert Rufe						x
Doug Trotter		x	x			
Philip Trabel			x			
Erica Graham						x

Norman E. Blatt Jr.			x			
Mayor Johnson						

- Hellertown Pool Agreement

After Mr. Berger had raised concerns regarding liability for the Public Works crew helping at the Hellertown pool, Mr. Gratz contacted Hellertown again. Hellertown proposed a 10% surcharge on every pass sold to Fountain Hill residents as a contribution towards Hellertown's maintenance. It removes the Borough from any potential liability and gives Fountain Hill residents an option to have access to a public pool. Mr. Gratz detailed that Fountain Hill residents would be able to purchase a season pass or a multiple pass at the Hellertown rate and the Borough would subsidize the rate difference between residents/non-residents plus the 10% surcharge. Daily admission rates are the same for residents/non-residents.

COUNCIL PRESIDENT'S REPORT

The Easter Egg Hunt was a welcome event.

The opening ceremony at the Little League field was well organized.

Council President Blatt thanked the Shade Tree Commission and the Public Works department for the preparation of the Arbor Day event held at Upper Dodson Ballfield on April 29, 2022.

Council President Blatt reminded of the Memorial Day celebration on May 27, 2022 at 1 pm at the Triangle across from the ball field.

SOLICITOR'S REPORT – None.

COMMITTEE REPORTS

Finance (**Trotter**, Blatt, Jordan)

Council President Blatt asked for a vote on the motion made by Mr. Trotter to pay the bills as presented.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan		x	x			
Jamie Johnson			x			
Wilbert Rufe						x
Doug Trotter	x		x			
Philip Trabel			x			
Erica Graham						x
Norman E. Blatt Jr.			x			
Mayor Johnson						

Public Works (**Jordan**, Trotter, Rufe)

Approved

Mr. Quarry referred back to the earlier discussion on upcoming road projects.

Police (**Bla**tt, Trotter, Johnson)

A list of intersections where parking will be restricted because of insufficient line of sight were discussed during the meeting before the Council meeting. Speed checks will be held on Delaware Ave.

House & Ordinances (**Rufe**, Graham, Jordan) – None.

Fire (**Trabel,** Graham, Rufe) – None.

Recreation (**Johnson**, Rufe, Trabel)

Potential summer programs were discussed, such as a community garden above the pool Ms. Johnson was advised though to have a soil test done beforehand.
The offices of Jeannie McNeil and Magistrate Amy Zanelli offered to provide large screens for showing movies in the park. The purchase of new movies would be funded by volunteers.
Community yard sales are considered.
Ms. Johnson reported that the Borough will entertain a summer program this year for the morning and evening hours. Staff is secured for the morning hours, but staff is still needed for the evening hours.

Ms. Johnson reminded to keep the park clean and properly dispose of trash. Motor bikes are not allowed on the basket ball courts. Violators will be reported to the police.

Health & Sanitation (**Graham**, Johnson, Trabel)

Council President Blatt read the Sewer/Garbage collection reports for April 2022.
He inquired about the possibility of sheriff's sales for high accounts. Mr. Berger responded that sheriff's sales will be considered for extremely high accounts.

Personnel (**Trotter,** Blatt, Jordan) – None.

SPECIAL OR SELECT COMMITTEES

The new Fire Truck is operational. The Fire Department is receiving CPR training.

PRIVILEGE OF THE FLOOR – Discussion on Non - Agenda Items

Mr. Jason Brandon thanked Council for reconsidering the closure of the pool.

Mr. Tim Brown of 615 S Bergen St is encouraged about the citizens' interest in the pool and hopes that grants will become available to support the pool operation. Mr. Gratz reminded that

Approved

public grants do currently support the Broadway Curb & Sidewalk construction and the Broadway/Delaware intersection. However, availability of grants are constantly monitored.

EXECUTIVE SESSION (As Needed) – None.

ADJOURNMENT

At 8:18 PM Council President Blatt asked for a motion to adjourn. Mr. Trabel made the motion, seconded by Ms. Johnson and unanimously approved.

BOROUGH OF FOUNTAIN HILL
LEHIGH COUNTY, PENNSYLVANIA
By: _____
Norman E Blatt – President of Council

SUBMITTED:

BY: _____
Cordula Voges, Finance Director

ATTEST:

By: _____
Eric Gratz, Borough Manager

Next Ordinance – 871
Next Resolution – 2022-21

Approved

FOUNTAIN HILL BOROUGH COUNCIL
MINUTES
May 18, 2022
7 P.M.

The Council Meeting was held in-person at Borough Hall. Council members present were: Ms. Jordan, Mr. Trotter, Mr. Blatt, Ms. Graham and Mayor Johnson. Mr. Trabel joined a little later. Mr. Rufe and Ms. Johnson were absent. Also, in attendance were Eric Gratz (Borough Manager) and guests.

Council President Blatt called the meeting to order and asked for everyone to rise for the Pledge to the Flag.

MINUTES

- Approval of the minutes of May 2, 2022

Council President Blatt asked for a motion to approve the minutes as amended

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel			x			
Erica Graham		x	x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

PRESENTATION(S) - None.

PRIVILEGE OF THE FLOOR/ PRE-SCHEDULED – None.

DRAFT RESOLUTIONS FOR REVIEW – None.

DRAFT ORDINANCES FOR REVIEW - None.

OLD BUSINESS

- Playground/Recreation

Council President Blatt inquired about the summer playground program. Mr. Gratz reported that the former Public Works supervisor's daughter, Kaylee Levernier, had applied for the coordinator position and would be available to both work the morning (9-12 am) and evening hours (6-9 pm). Additional qualified applicants applied as playground assistants. Mr. Gratz asked about the start of the program. Ms. Jordan noted that the Bethlehem Area School District schools go on summer break on June 9 and the park program traditionally started the Monday after school closing, June 13.
Dependent on the availability of the playground staff, the program is scheduled to run through mid-August.

Approved

Mr. Gratz mentioned that Mr. Quarry, the Public Works Supervisor, had suggested to lock the basketball rims two weeks before the playground program starts to give his crew enough time cleaning and preparing the grounds - especially in light of the recent littering occurring again. Council consented.
Mr. Gratz had discovered that the current ordinance only expressly prohibits motor vehicle use in the Lechauwecki Park and not in the other parks. He will further look into the issue and report on it.

- Hellertown Pool Agreement

Council President Blatt summarized the Hellertown Pool Draft Agreement stating that Fountain Hill residents may purchase multiple (eight) use and season passes in Fountain Hill at the Hellertown residential rate Fountain Hill Borough will supplement the difference between the residential/non-residential rates plus a 10% surcharge – payment will be made at the end of the pool season. Daily rates do not differentiate between residential and non-residential status. The resolution to vote on the inter municipal agreement will be presented at the June 6 meeting.

- Pool Grant Follow-up

Mr. Gratz informed that the Community Development Block Grant (CDBG) is available for pool funding. However, CDBG funding is restricted to only fund projects that benefit at least 50% low-income residents. Even though Fountain Hill generally qualifies for more than 50% low-income families per the latest census records, it would be extremely difficult to enforce the exclusive use of the pool by Fountain Hill residents.

- Memorial Day Event – May 27, 1pm – Spiegel Street triangle across from the Little League field

Council President Blatt reminded of the upcoming Memorial Day event to honor the men and women who died while serving in the U.S. military and invited everyone to participate.

- KME Fire Engine sold/transfer (complete)

The KME Fire Engine was sold and paid for at the day of the transfer. It will ultimately be boated to Peru as its final destination.

- Little League Building repairs (complete)

The Little League building repairs were completed by the Public Works department crew.

DISCUSSION ITEMS (NEW BUSINESS)

- Electronics Recycling Event

This year, Fountain Hill will hold an electronics recycling event. Mr. Gratz asked Council to define acceptable recyclable electronics and timing of the event. Republic Services will provide the dumpster above the Little League field as part of their contract with the Borough. Council President Blatt asked if a recycling fee should be charged. Mr. Gratz responded that the Health & Sanitation fund balance would allow to fully fund this year's event to Fountain Hill residents with proof of residency. Ms. Graham suggested to limit the number of recyclable items accepted to avoid abuse of the program. Council finally consented to hold the electronic recycling event on a Saturday at the end of the Little League season. It will be free to Fountain Hill residents but limit the number of electronic items ("everything with a plug") to five per resident to cap the Borough's cost.
Mr. Gratz had also reached out to Salisbury Township to potentially partner with them for this recycling event. However, Salisbury declined because the township's garbage hauler contract already includes curbside recycling. Mr. Gratz will consider discussing this service when the next refuse collection contract will be negotiated.

Approved

- Notification Software

In light of the recent discussion about the success of reaching out to the public, Council discussed other options than the venues already in use (website, facebook, newspaper) – such as notification software. Mr. Gratz will do some more research. Mr. Gratz did caution though that the success of a public alert system is dependent on residents willing to sign up.

COUNCIL ACTION ITEMS

- Motion to approve the hiring of Keith Zehner as the Zoning and Code Enforcement Officer, effective May 26, 2022

The Personnel Committee recommended to offer Mr. Zehner the position as Zoning and Code Enforcement Officer. His annual salary will be set at $65,000 with all the benefits for non-uniform employees, including 2.5 weeks of paid vacation.

Council President Blatt entertained a motion to approve his hiring.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel		x	x			
Erica Graham			x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

- Motion to approve the appointment of Brian Liable to the position of Crew Leader, Public Works, with a $1.25 per hour raise as per the Collective Bargaining Agreement

Based on the recommendation of the Public Works Committee Council President Blatt entertained a motion to approve Mr. Laible's appointment.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter		x	x			
Philip Trabel			x			
Erica Graham			x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

- Hiring of Kaylee Levernier as the Recreation Program Coordinator/Manager for Summer 2022

Approved

Ms. Levernier is offered $20.00/hr. without benefits working both the morning and evening hours. Mr. Gratz mentioned that Ms. Levernier would also be interested in facilitating other recreational activities, such as movie night.
Council President entertained a motion to approve her hiring.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Jamie Johnson						x
Wilbert Rufe						x
Doug Trotter			x			
Philip Trabel	x		x			
Erica Graham		x	x			
Norman E. Blatt Jr.			x			
Mayor Johnson						

PRIVILEGE OF THE FLOOR – Discussion on Non - Agenda Items – None.

EXECUTIVE SESSION (None)

Council President Blatt reminded again of the upcoming Memorial Day celebration. He also inquired if individual memorial bricks are still available to purchase. Mr. Gratz responded that none have been sold within the past months. However, memorial bricks are still offered for purchase.

ADJOURNMENT

At 7:33pm Council President entertained a motion to adjourn. Mr. Trabel made the motion, seconded by Ms. Graham and unanimously approved.

BOROUGH OF FOUNTAIN HILL
LEHIGH COUNTY, PENNSYLVANIA
By:

_____
Norman E Blatt - President of Council

SUBMITTED:

BY: _____
Cordula Voges, Finance Director

ATTEST:

By: _____
Eric Gratz, Borough Manager

Next Ordinance – 871

Approved

Next Resolution – 2022 - 21

Approved

FOUNTAIN HILL STORMWATER AUTHORITY
MINUTES
September 8, 2021
6:00 P.M.

Ms. Morrison called the meeting to order at 6 P.M. Authority members present were: Ms. Jordan, Mr. Lansek, Mr. Trabel and Mr. McCandless. Also, in attendance were Eric Gratz (Borough Manager), Mr. Berger (Solicitor), Ms. Smith (Hanover Engineering), and guests.

PLEDGE OF ALLEGIANCE

Ms. Morrison asked everyone to pledge allegiance to the flag.

INTRODUCTION OF NEW MANAGER – Mr. Eric Gratz

Ms. Morrison introduced Mr. Eric Gratz as the new Borough Manager and asked for a motion to appoint him as the Stormwater Authority Manager as well.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Thomas Lansek			x			
Kelsey Morrison			x			
Stew McCandless		x	x			
Phil Trabel			x			

APPROVED

APPROVAL OF MINUTES – February 10, 2021

Ms. Morrison asked for a motion to approve the Minutes of 2/10/2021.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Thomas Lansek		x	x			
Kelsey Morrison			x			
Stew McCandless			x			
Phil Trabel	x		x			

PRIVILEGE OF THE FLOOR – none.

RESOLUTIONS- none.

SOLICITOR'S REPORT

Mr. Berger reported that the Temporary Access Easement Agreement with the owner of Parcel I.D. Number 642628347740 (i.e., Warren Street) has been fully executed and signed on 6/10/2021.

ENGINEER'S REPORT

In relation to the stormwater project "Warren Street Basin", Ms. Smith reported that Hanover Engineering found the respective subdivision file. Based on those records, the existing basin on Warren Street is over-designed. Hanover Engineering determined that the surface area does not need to expanded. However, they recommend to go deeper. The respective design will be provided at the next Stormwater Authority meeting.

Ms. Smith explained that the Warren Street Basin project will take care of the overall MS4 requirements for pollution reduction; it does not address a specific area. She reminded that currently the Borough was allowed five (5) years to implement the MS4 requirements.

Warren Street Basin only takes care of the MS4 overall, not a specific area, to satisfy overall requirement for pollution reduction

In conjunction with the Warren Street Basin project, the Board discussed other options that could be tied in with pollution reduction measures. These options included the elimination of the pool and simultaneous creation of optional passive recreational facilities. Mr. Gratz offered to create a survey to get a community opinion on the future use of the pool.

MANAGER'S REPORT

- Easement Agreement for Warren Street

Mr. Gratz noted that the agreement was received on 8/26/2021.

- ARPA (American Rescue Plan Act) funds – motion to accept and designate appropriate storm sewer projects

Mr. Gratz reported that the first installment of the ARPA funds in the amount of $245,920 had been received in July. Borough Council had suggested to use these funds for Storm Sewer Projects. He asked for a motion to accept these funds and designate them to Storm Sewer projects.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Thomas Lansek			x			
Kelsey Morrison			x			
Stew McCandless	x		x			
Phil Trabel		x	x			

Ms. Morrison asked Mr. Gratz to provide a copy of the September 8, 2021 Stormwater Authority Minutes to Borough Council.

APPROVED

Mr. Gratz reminded that PennDOT will potentially start the Broadway Road construction within the next eight (8) months. The Borough was awarded the MTF (Multimodal Transportation Fund) Grant 2019 to repair/replace a culvert, curbs, sidewalks, driveway aprons on Broadway and start its Curb & Sidewalk construction in conjunction with PennDOT's road construction. He reminded that Storm sewer restoration and basins are not included in the award.
Ms. Smith suggested to use the ARPA funds for storm inlets and grading in conjunction with the MTF Grant 2019 for Broadway. Ms. Smith mentioned that it had already acquired the Highway Occupancy Permit (HOP) from PennDOT for the Broadway Curb & Sidewalk project (because within PennDOT right-of-way).
The Board discussed the need of additional stormwater inlets on Broadway and Lynn Street. Mr. Gratz asked for a motion to authorize Hanover Engineering to initiate a respective study.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Thomas Lansek			x			
Kelsey Morrison			x			
Stew McCandless	x		x			
Phil Trabel		x	x			

APPROVED

FINANCIAL REPORT – PAYMENT OF BILLS

Ms. Voges presented the financial reports and check detail reports for the month of August.

Ms. Morrison asked if the Owner of 600 Brighton Street had adhered to the granted payment agreement. Ms. Voges confirmed that he did.

BUSINESS

Ms. Smith reminded that the annual Stormwater Credit Application renewals are due.

Ms. Smith asked that the Zoning Officer should report any building additions that decrease the impervious area to Hanover Engineering to be able to adjust the Stormwater Fee.

ADJOURN

Ms. Morrison made a motion to adjourn at 7:07 PM seconded by Mr. McCandless. The motion passed unanimously.

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FOUNTAIN HILL STORMWATER AUTHORITY
LEHIGH COUNTY, PENNSYLVANIA

By: _____
Kelsey Morrison, Chairperson

SUBMITTED BY

By: _____
Cordula Voges, Finance Director

ATTEST:

By: _____
Eric Gratz, Manager

Next Resolution 2020-5

APPROVED

FOUNTAIN HILL STORMWATER AUTHORITY
Minutes
November 23, 2021
6:00 P.M.

Ms. Morrison called the meeting to order at 6 P.M. Authority members present were: Ms. Jordan, Mr. Lansek, and Mr. Trabel. Mr. McCandless was absent. Also, in attendance were Eric Gratz (Borough Manager), Cordula Voges (Finance Director), Mr. Berger (Solicitor), Ms. Smith (Hanover Engineering), and guests.

PLEDGE OF ALLEGIANCE

Ms. Morrison asked everyone to pledge allegiance to the flag.

APPROVAL OF MINUTES – September 8, 2021

Ms. Morrison asked for a motion to approve the Minutes of September 8, 2021.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan		x	x			
Thomas Lansek	x		x			
Kelsey Morrison			x			
Stew McCandless						x
Phil Trabel			x			

PRIVILEGE OF THE FLOOR – None.

RESOLUTIONS - None.

SOLICITOR'S REPORT – None.

ENGINEER'S REPORT

Ms. Smith (Hanover Engineering) presented storm sewer projects for 2022:

- Stormwater Inlets need to be replaced. She reported that forty of the total number of inlets (sixty or eighty) have already bags. She cautioned that only half of the sediment captured in the bags counts for pollution reduction. The replacement of a stormwater inlet costs about $5,000.

- Broadway Curb & Sidewalk Storm Sewer Improvements

In conjunction with the MTF Grant 2019 for the Broadway Curb and Sidewalk replacement simultaneous storm sewer improvements as outlined in detail in the "Broadway_StormSewerReplacementPlan" for an estimated cost of $90,804.

- Hoffert St Storm Sewer Extension for an estimated cost of $46,687.50.

APPROVED

- Stanley Ave Grass Alley Conversion

Storm Sewer improvements in conjunction with the Grass Alley Conversion in the amount of $34,700.

Ms. Morrison asked for a motion to approve/add these projects to the Budget 2022.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Thomas Lansek			x			
Kelsey Morrison			x			
Stew McCandless						x
Phil Trabel		x	x			

MANAGER'S REPORT.

- Mr. Gratz referred to the presented Financial Audit reports for 2019 and 2020

Ms. Morrison asked for a motion to approve the presented audit reports.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Thomas Lansek		x	x			
Kelsey Morrison			x			
Stew McCandless						x
Phil Trabel	x		x			

- Mr. Gratz asked for a motion to accept the payment of the bills as presented.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Thomas Lansek	x		x			
Kelsey Morrison			x			
Stew McCandless						x
Phil Trabel		x	x			

- Mr. Gratz asked for a motion to adopt the presented 2022 Budget.

The Board Members consented to vote via email once the approved changes (as discussed above) have been made.

NEW BUSINESS

Mr. Gratz reported that the license of a GIS (Geographic Information System) has been received. The Stormwater Authority will benefit from it as the GIS will also show the stormwater basins.

ADJOURN

APPROVED

At 7:32 pm Ms. Morrison asked for a motion to adjourn. Ms. Jordan made the motion seconded by Mr. Trabel. The motion passed unanimously.

FOUNTAIN HILL STORMWATER AUTHORITY
LEHIGH COUNTY, PENNSYLVANIA

By: _____
Stewart McCandless, Chairperson

SUBMITTED BY:

_____
Cordula Voges, Finance Director

ATTEST:

By: _____
Eric Gratz, Borough Manager

Next Resolution 2021-1

APPROVED

FOUNTAIN HILL STORMWATER AUTHORITY
Minutes
March 9, 2022
6:00 P.M.

Mr. McCandless, Vice Chair, called the meeting to order at 6 P.M. Authority members present were: Ms. Jordan, Mr. Lansek, Mr. Trabel, and Mr. McCandless. Also, in attendance were Eric Gratz (Borough Manager), Cordula Voges (Finance Director). Mr. Berger (Solicitor) participated virtually.

PLEDGE OF ALLEGIANCE

Mr. McCandless asked everyone to pledge allegiance to the flag.

ACCEPTING RESIGNATION – Kelsey Morrison, previous Chair.

Mr. McCandless asked for a motion to accept Ms. Morrison's resignation as of 1/3/2022 due to other time commitments.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan		x	x			
Thomas Lansek			x			
Andrew Boyer			x			
Stew McCandless			x			
Phil Trabel	x		x			

INTRODUCTION OF NEW MEMBER

Council had already appointed Mr. Andrew Boyer as a new board member.

Mr. Gratz welcomed Mr. Boyer and asked him to introduce himself to the Board. Mr. Boyer is retired from the military and engineering. He has lived in Fountain Hill for the past eight years and currently works for an insurance company.

ORGANIZATIONAL MEETING – Appointment of Chair and Vice-Chair

Mr. McCandless asked for a nomination of a chair to the board. Ms. Jordan nominated Mr. McCandless, seconded by Mr. Trabel. Mr. McCandless asked for a vote.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Thomas Lansek			x			
Andrew Boyer			x			
Stew McCandless			x			
Phil Trabel		x	x			

Approved

Mr. McCandless nominated Mr. Boyer for Vice-Chair, seconded by Mr. Lansek.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Thomas Lansek		x	x			
Andrew Boyer			x			
Stew McCandless	x		x			
Phil Trabel			x			

APPROVAL OF MINUTES – November 23, 2021

Mr. Gratz noted that after the November 23, 2021 meeting, Board Members had approved and virtually voted on the 2022 Budget.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan	x		x			
Thomas Lansek			x			
Andrew Boyer			x			
Stew McCandless			x			
Phil Trabel		x	x			

PRIVILEGE OF THE FLOOR – None.

RESOLUTIONS – None.

SOLICITOR'S REPORT

Mr. Berger reminded that the Stormwater Appeals Board is still missing two members. The Stormwater Appeals Board only meets, if an appeal regarding Stormwater is made. Mr. Trabel suggested to contact former board members to potentially fill these positions. Mr. Gratz will follow up accordingly.

ENGINEER'S REPORT – None.

MANAGER'S REPORT

Mr. Gratz announced that Ms. Smith with Hanover Engineering will report on any upcoming projects and bid specs that were incorporated in the 2022 Budget and the MS4 program.

FINANCIAL REPORT

Ms. Voges reported the collection rates of the 2020 and 2021 Stormwater fees and detailed payments made in February 2022.

Approved

Mr. McCandless asked for a motion to approve the respective payments.

	Motion	2nd	Yes	No	Abstain	Absent
Annamarie Jordan			x			
Thomas Lansek	x		x			
Andrew Boyer			x			
Stew McCandless			x			
Phil Trabel		x	x			

NEW BUSINESS – None.

ADJOURN

At 6:15 PM Mr. McCandless asked for a motion to adjourn. Mr. Trabel made the motion seconded by Mr. Lansek. The motion passed unanimously.

FOUNTAIN HILL STORMWATER AUTHORITY
LEHIGH COUNTY, PENNSYLVANIA

By: _____
Stewart McCandless, Chairperson

SUBMITTED BY:

_____
Cordula Voges, Finance Director

ATTEST:

By: _____
Eric Gratz, Borough Manager

Next Resolution 2022-1

Approved

MCM #3

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDD&E)

ILLICIT DISCHARGE DETECTION & ELIMINATION (IDD&E) PROGRAM

THE BOROUGH OF FOUNTAIN HILL, LEHIGH COUNTY
August 2014, Last Updated September 2022

The Borough of Fountain Hill (Borough) is a suburb of Bethlehem, Pennsylvania, located in Lehigh County. The Borough is approximately 480 acres (0.75 square miles) in size and located entirely within the Lehigh River watershed. The Borough drains entirely into the Lehigh River via two smaller drainage areas. The majority of the Borough land drains through a pipe network to the northeast and discharges through a large underground pipe into the stormwater collection system in South Bethlehem. A smaller drainage area in the northern portion of the Borough, primarily draining the lands of St. Luke's Hospital, surrounding residential land, and Reeb Millworks property, drains to the north and discharges directly into the Lehigh River.

As part of the Borough's Authorization to discharge waters from the MS4 to surface waters, the Permit requires the development, implementation, and enforcement of an Illicit Discharge Detection & Elimination (IDD&E) Program. The IDD&E Program falls under the requirements of Minimum Control Measure #3 (MCM #3), which contains a series of Best Management Practices (BMPs) that must be met. The requirements for MCM #3, BMP #1 state that permittees shall develop and implement a written program for the detection, elimination, and prevention of illicit discharges into the regulated MS4. The remaining BMPs under MCM #3 require mapping of the entire storm sewer collection system, outfall field screenings, ordinances for enforcement, and public educational outreach.

The Borough realizes the importance of clean water, understands the responsibilities related to stormwater discharges from their MS4, and is committed to continuing in the development, implementation, and enforcement of their MS4 Program. As such, this document, in conjunction with current Borough Ordinances and standard operating procedures (SOPs), represents the IDD&E Program for the Borough of Fountain Hill.

EPA defines illicit discharge as "any discharge to an MS4 that is not composed entirely of stormwater" (with a few exceptions, most notably, discharges pursuant to an NPDES permit and discharges resulting from fire-fighting activities).

Examples of common illicit discharges are sanitary wastewater, effluent from septic tanks, car wash wastewater, improper oil disposal, laundry wastewater, spills from roadway accidents, improper disposal of auto and household toxics, etc. These illicit discharges can be categorized as either direct or indirect. Direct discharges typically occur from wastewater (gray or black) piped directly from homes, businesses, institutions, etc., to the storm sewer, illegal dumping into the storm sewer, floor drains that are connected to the storm sewer, and cross-connections between public sewer and storm sewer systems. Indirect discharges are commonly attributed to infiltration into the storm sewer system, such as broken/cracked public sewer infrastructure or failing onlot septic tanks. Suspected or observed illicit discharges have also been categorized into the following three (3) categories:

- Transitory Illicit Discharge – Discharges that occur rarely and are usually in response to a singular event, such as an industrial spill, sewer break, ruptured sewer tank, transport accident, or illegal dumping episode. These discharges are often difficult to detect since they occur so infrequently.
- Intermittent Illicit Discharge – Discharges that occur over a shorter period of time (e.g., a few hours per day or a few days per year). These discharges are also difficult to detect as well because of their infrequency.
- Continuous Illicit Discharge – Discharges that occur most or all of the time, are usually easier to detect, and typically produce the greatest pollutant load.

Table 1 below provides information relating to types of expected discharges by land uses, generating sites, and specific activities that produce discharges.

Table 1: Land Uses, Generating Sites, and Activities that Produce Indirect Discharge

Land Use	Generating Site	Activity that Produces Discharge
Residential	• Apartments • Multi-family • Single Family Detached	• Car washing • Driveway cleaning • Dumping/spills (e.g., leaf litter and RV/boat holding tank effluent • Equipment washdowns • Lawn/landscape watering • Septic system maintenance • Swimming pool discharges
Commercial	• Car dealers/rental car companies • Car washes • Commercial laundry/dry cleaning • Gas stations/auto repair shops • Oil change shops • Restaurants • Swimming pools	• Building maintenance (power washing) • Dumping/spills • Landscaping/grounds care (irrigation) • Outdoor fluid storage • Parking lot maintenance (power washing) • Vehicle fueling • Vehicle maintenance/repair • Vehicle washing • Washdown of greasy equipment and grease traps
Industrial	•	• All commercial activities • Industrial process water or rinse water • Loading and un-loading area washdowns • Outdoor material storage (fluids)
Institutional	• Cemeteries • Churches • Corporate campuses • Hospitals • Schools and universities	• Building maintenance (e.g., power washing) • Dumping/spills • Landscaping/grounds care (irrigation) • Parking lot maintenance (power washing) • Vehicle washing
Municipal	• Public works yards • Streets and highways • Municipal fleet storage areas	• Building maintenance (power washing) • Dumping/spills • Landscaping/grounds care (irrigation) • Outdoor fluid storage • Parking log maintenance (power washing) • Road maintenance • Spill prevention/response • Vehicle fueling • Vehicle maintenance/repair • Vehicle washing

Source: Table Modified from Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments, Center for Watershed Protection.

The Borough's current IDD&E Program initially followed the original guidance set forth by DEP during the very first permit term in 2002 and has been updated over the years to include map updates and account for stormwater management activities undertaken by the Public Works Department. The Borough's original program also included provisions for illicit discharge screenings and frequent cleanouts of inlets and outlets.

Throughout previous permit terms, the Borough evaluated their internal IDD&E Program and determined a more defined set of procedures should be established for ease and clarity for administering the program. This IDD&E Program will be followed and updated as necessary to effectively inspect, document, and correct illicit discharges.

The initial step in developing the IDD&E Program involved mapping the entire storm sewer system within the Urbanized Area (UA), including but not limited to, roads, inlets, piping, swales, catch basins, channels, basins, municipal boundaries, and watershed boundaries. It was also important to label all outfalls and basins numerically/alphanumerically for future inspection and consistent documentation purposes. The Borough's map depicting the outfalls and receiving waters has been updated as of August 2017 (see Appendix A).

The second element in developing the IDD&E Program was establishing a statutory authority which prohibits illicit discharges and legally authorizes the Borough to take enforcement action. The Borough's current Stormwater Management Ordinance, last updated April 14, 2007, specifically defines allowable and prohibited discharges and describes right of entry, notification, and enforcement penalty procedures.

With the above mechanisms in place, the Borough then sought to identify potential hot spots or priority areas that have the potential for likely illicit discharges. The Borough's Stormwater Management Ordinance identifies potential hot spot land uses and mandates all stormwater runoff to be pretreated. The table below is taken directly from the Ordinance (Chapter 26, §127.16).

Table 2. Hot Spot Land Use and Pretreatment Method(s)

Table 2: Chapter 26, §127.16 – Hot Spot Land Use and Pretreatment Method(s)	
Hot Spot Land Use	Pretreatment Method(s)
Vehicle maintenance and repair facilities, including auto parts stores	• Water quality inlets • Use of drip pans and/or dry sweep material under vehicles/equipment • Use of absorbent devices to reduce liquid releases • Spill prevention and response program
Vehicle fueling stations	• Water quality inlets • Spill prevention and response program
Storage areas for public works	• Water quality inlets • Use of drip pans and/or dry sweep material under vehicles/equipment • Use of absorbent devices to reduce liquid releases • Spill prevention and response program • Diversion of stormwater away from potential contamination areas
Outdoor storage of liquids	• Spill prevention and response program

Commercial nursery operations	• Vegetated swales/filter strips • Constructed wetlands • Stormwater collection and reuse
Salvage yards and recycling facilities*	• BMPs that are a part of a stormwater pollution prevention plan under an NPDES permit
Fleet storage yards and vehicle cleaning facilities*	• BMPs that are a part of a stormwater pollution prevention plan under an NPDES permit
Facilities that store or generate regulated substances*	• BMPs that are a part of a stormwater pollution prevention plan under an NPDES permit
Marinas*	• BMPs that are a part of a stormwater pollution prevention plan under an NPDES permit
Certain industrial uses (listed under NPDES)*	• BMPs that are a part of a stormwater pollution prevention plan under an NPDES permit

*Regulated under the NPDES Stormwater Program

In addition to the above hot spots, the Borough also considers commercial/industrial areas, older areas of the Borough (which may predate more stringent construction codes and/or have older infrastructure), and areas with previous complaints or violations as priority areas.

The Borough Public Works Department (PWD) has been trained during previous permit terms to be observant of dry weather flows while performing their everyday activities. Additionally, the required annual employee trainings will also include IDD&E training components. These trainings will be documented and reported in the Borough's MS4 Annual Reports.

Outfall Screenings

As required, all outfalls shall be screened at least one time during the permit term and conducted only during dry weather (at least 48 hours with no precipitation and no significant snow melt). All outfall screenings shall be recorded on the MS4 Outfall Field Screening Form (see Appendix B). This information, as well as any elimination and enforcement action required will also be documented in the Borough's MS4 Annual Reports.

Any observed dry weather flows should be evaluated for odor, color, turbidity, and floatable matter. Staining, vegetation, and damage to the outfall structures should also be noted as this information could be an indication of certain contaminants in the discharge and/or the likely nature of the discharge. If an outfall is observed with no flow, but evidence of an illicit discharge is observed, the outfall shall be rescreened within one week, if possible, under dry weather conditions. Repeat inspections should occur to determine whether or not an illicit discharge is present.

Should the initial evaluation result in a suspected illicit discharge, the inspector should consider collecting a grab sample to analyze for the minimum parameters of E.coli, ammonia, surfactants, and total chlorine. Coordination with the chosen testing laboratory should be undertaken prior to collecting samples to ensure the use of acceptable containers, any preservation requirement, proper collection methods are followed; confirm holding times are able to be met; and temperature(s) are compliant with testing procedures.

The inspector shall also observe the immediate surrounding area for any suspected sources. If no suspected sources are discovered in the immediate area, a driving inspection is recommended in order to increase the radius of the drainage area and identify possible sources such as commercial/ industrial operations, construction activities, excessive road debris, poorly maintained catch basins, broken pipes, etc.

When a potential illicit discharge is discovered, additional efforts may be necessary to determine the source of the discharge. The PWD and Borough Engineer will coordinate to determine the methods to be used to identify the source of the illicit discharge. Methods anticipated for use would likely include dye-testing, tracing the discharge upstream in the storm sewer system, using video to inspect the storm sewer system (useful to determine breaks and illegal connections), and/or additional water sampling/testing (additional analyte).

If an illicit discharge is observed and its source is identified, the next step is to act by eliminating the illicit discharge and taking enforcement action when necessary. While this program intends to outline the measure that should be taken to handle illicit discharges, the Borough staff will be allowed to use judgement regarding compliance and enforcement actions.

All actions related to illicit discharge elimination will be tracked in a database to be administered by Borough staff. The database will be organized by MS4 outfall and will contain information such as the number of illicit connections eliminated, any complaints received and corrected, and/or actions taken. IDD&E screenings and any elimination action will also be reported in the Borough's Annual Report.

Catch Basins

Proper maintenance and cleaning of the Borough's storm sewer system catch basins is critical to the MS4 Program. Catch basin cleaning reduces foul odors, prevents clogs in the storm drain system, and reduces the loading of trash, suspended solids, nutrients, bacteria, and other pollutants to receiving waters. Borough PWD staff currently implement their SOP for catch basin and storm sewer system cleaning and maintenance and this IDD&E Program is not intended to replace the SOP; it is mentioned in the IDD&E only to emphasize the importance of proper operation and maintenance. It is the intention to provide documentation on catch basin cleaning and general maintenance of the storm sewer system as part of the MS4 Annual Report.

StormSack Inlet Filter Bag Inspection and Maintenance

Proper maintenance and cleaning of the Borough's installed inlet filters is also critical to the MS4 Program. Inspections should occur monthly, and bags should be cleaned at least four (4) times per year, more often if necessary, or if the monthly inspection noted the need for cleaning or maintenance. Similar to the catch basin cleaning recommendations above, Borough PWD staff follows their SOP for inlet filter bag cleaning and maintenance and this IDD&E Program is not intended to replace the SOP; it is mentioned in the IDD&E only to emphasize the importance of proper operation and maintenance. Logs from the inlet filter bag maintenance shall be provided as an attachment to the Borough's Annual Status Report.

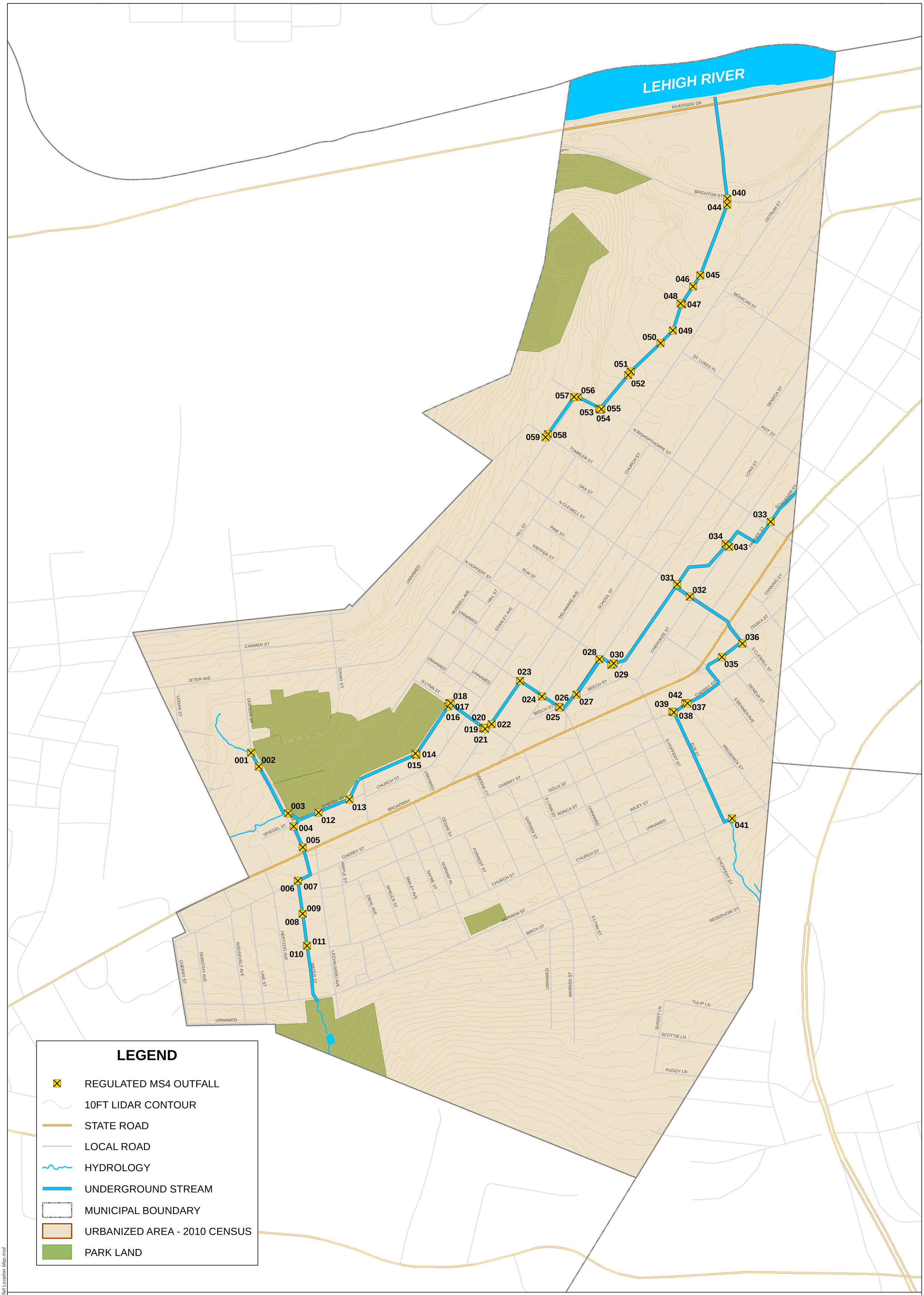
Public Education and Complaint Procedures

The last component of the Borough's IDD&E Program involves a method to educate the public on illicit discharges and a means for reporting potential issues and concerns. Utilizing the public provides both a lot-cost strategy to engage the community in illicit discharge surveillance and a very effective way to be alerted to intermittent and transitory discharges that escape normal outfall screening. The Borough website includes a "Citizen's Complain Form" (Appendix C) that can be printed and mailed or submitted via e-mail. Future education programs and materials will enforce this component of the IDD&E Program.

S:\Projects\Municipal_MS4\Fountain Hill Borough\2018-2023 Permit Term\Annual Progress Report - Year 4\MCM#3 - Illicit Discharge Detection and Elimination\IDD&E Program\IDDEP - FINAL 09.16.2022.docx

Appendix A

Map of the Borough of Fountain Hill



LEGEND

- REGULATED MS4 OUTFALL
- 10FT LIDAR CONTOUR
- STATE ROAD
- LOCAL ROAD
- HYDROLOGY
- UNDERGROUND STREAM
- MUNICIPAL BOUNDARY
- URBANIZED AREA - 2010 CENSUS
- PARK LAND

0 300 600 900 1,200

Feet

1 inch = 300 feet

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SEAL

NO.	REVISIONS	DATE

MS4 OUTFALL LOCATION MAP

MS4 PROGRAM - 2017

FOUNTAIN HILL BOROUGH

LEHIGH COUNTY

PENNSYLVANIA

DRAWN BY: MJA	PROJECT NO. FH18-14
CHECKED BY: JES	
DATE: 3-6-2018	SHEET NO. 1 of 1
SCALE: 1:3,600	

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Path: X:\Projects\Municipal\MS4\Fountain Hill Borough\MXD\MS4 Outfall Location Map.mxd

Appendix B

MS4 Outfall Field Screening Report

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name:	NPDES Permit No.: PA
Date of Inspection:	Outfall ID No.:
Land Uses in Outfall Drainage Area (Select All):	Latitude: ____° ____' ____"
☐ Industrial ☐ Urban Residential	Longitude: ____° ____' ____"
☐ Commercial ☐ Suburban Residential	Dry Weather Inspection? ☐ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation:
	Amount of Previous Precipitation: in
Inspector Name(s):	Were Photographs Taken? ☐ Yes ☐ No
	Are Photographs Attached? ☐ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☐ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☐ Circular ☐ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: ____ in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: ____ in Top Width: ____ in Bottom Width: ____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☐ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Responsible Official Name	Signature
Telephone No.	Date

Appendix C

Citizen's Complaint Form

BOROUGH OF FOUNTAIN HILL

941 LONG SREET FOUNTAIN HILL PA 18015

PHONE: 61-867-0301 FAX: 610-867-7153

www.fountainhill.org

CITIZEN'S COMPLAINT FORM

THIS FORM WHEN COMPLETED, SERVES AS A CITIZEN'S COMPLAINT DIRECTED TO THE APPROPRIATE DEPARTMENT OF THE BOROUGH OF FOUNTAIN HILL FOR INVESTIGATION AND RESPONSE.

PLEASE PRINT LEGIBLY AND FILL OUT FORM COMPLETELY

DATE_____ TIME: _____ Rec'd By_____

NAME OF COMPLAINANT_____ PHONE NUMBER(S)

STREET ADDRESS_____ HOME: _____

CITY_____ STATE_____ Zip_____ CELL: _____

COMPLAINT

REFERRED TO:

DATE	PUBLIC WORKS	CODE ENFORCEMENT	ADMINISTRATION	POLICE

GRAHAM ST

CARMEN ST

DODSON ST

JETER AVE

LOGAN ST

UNNAMED

ROOSEVELT AVE

001

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

HanoverEngineering

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HanoverEng.com

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LEHIGH COUNTY
PENNSYLVANIA

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 40 80 120 160
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/03/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

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002

DODSON ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 10 20 30 40
(IN FEET)

NORTH:

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DODSON ST

003

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

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(IN FEET)

NORTH:

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HERTZOG AVE

SPIEGEL ST

DODSON ST

BROADWAY

004

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 20 40 60 80
(IN FEET)

NORTH:

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SPIEGEL ST

DODSON ST

SPIEGEL ST

005

BROADWAY

CHERRY ST

BROADWAY

DOROTHY AVE

DOROTHY AVE

ROOSEVELT AVE

LINE ST

HERTZOG AVE

MORAVIA ST

UNNAMED

LECHAUWEKI AVE

WATER ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
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- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 60 120 180 240
(IN FEET)

NORTH:

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DATE: 08/03/2017
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BROADWAY

LECHAUWEKI AVE

006

CHERRY ST

HERTZOG AVE

WATER ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 20 40 60 80
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

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PLAN TITLE:
MS4 OUTFALL DETAIL MAP

PROJECT TITLE:
2017 MS4 PERMIT

0 20 40 60 80
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/03/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

008

LECHAUWEKI AVE

HERTZOG AVE

WATER ST

MORAVIA ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE:
MS4 OUTFALL DETAIL MAP

PROJECT TITLE:
2017 MS4 PERMIT

0 20 40 60 80
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/03/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

009

LECHAUWEKI AVE

CHURCH ST

WATER ST

HERTZOG AVE

MORAVIA ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
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- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 20 40 60 80
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/03/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

WATER ST

LECHAUWEKI AVE

CHURCH ST

010

HERTZOG AVE

LINE ST

MORAVIA ST

UNNAMED

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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FOUNTAIN HILL BOROUGH
LEHIGH COUNTY
PENNSYLVANIA

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 30 60 90 120
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/03/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

X:\Projects\Municipal\MS4\Fountain Hill Borough\MXD\Outfall Details\MS4 Detail - Outfall 010.mxd

WATER ST

LECHAUWEKI AVE

CHURCH ST

011

HERTZOG AVE

MORAVIA ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

X:\Projects\Municipal\MS4\Fountain Hill Borough\MXD\Outfall Details\MS4 Detail - Outfall 011.mxd

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 20 40 60 80
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
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SCALE: Reference Scale: 1:0
DATE: 08/03/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

012

SPIEGEL ST
STANLEY AVE
CHURCH ST
SMILEY AVE
BROADWAY
CHERRY ST
GREENE CT
DODSON ST
CHERRY ST
SMILEY AVE
FORREST ST
SIOUX ST
CEDAR ST
NORWAY PL
SAYRE ST
SPRUCE ST
DIEHL AVE
MAPLE ST
CHURCH ST
WATER ST
HERTZOG AVE
LECHAUWEKI AVE
UNNAMED
LINE ST
MORAVIA ST
UNNAMED

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
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PLAN TITLE:
MS4 OUTFALL DETAIL MAP

PROJECT TITLE:
2017 MS4 PERMIT

0 80 160 240 320
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

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SCALE: Reference Scale: 1:0
DATE: 08/03/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

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JETER AVE

CRAIG ST

DODSON ST

013

STANLEY AVE

SPIEGEL ST

SPIEGEL ST

BROADWAY

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 40 80 120 160
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/03/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

014

STANLEY AVE

CHURCH ST

UNNAMED

SPIEGEL ST

SMILEY AVE

BROADWAY

SAYRE ST

NORWAY PL

CHERRY ST

SMILEY AVE

SIOUX ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 30 60 90 120
(IN FEET)

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SCALE: Reference Scale: 1:0
DATE: 08/03/2017
PROJECT NO: FH17-14
SHEET NO: 1 OF 1

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GRAHAM ST

CARMEN ST

DODSON ST

JETER AVE

CRAIG ST

UNNAMED

RUSSELL AVE

015

UNNAMED

CHURCH ST

STANLEY AVE

SPIEGEL ST

SMILEY AVE

BROADWAY

NORWAY PL

SMILEY AVE

CHERRY ST

SAYRE ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
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- PARK LAND
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FOUNTAIN HILL BOROUGH
LEHIGH COUNTY
PENNSYLVANIA

PLAN TITLE:
MS4 OUTFALL DETAIL MAP

PROJECT TITLE:
2017 MS4 PERMIT

0 60 120 180 240
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

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PROJECT NO: FH17-14
SHEET NO. 1 OF 1

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X:\Projects\Municipal\MS4\Fountain Hill Borough\MXD\Outfall Details\MS4 Detail - Outfall 015.mxd

RUSSELL AVE

N LYNN ST

016

STANLEY AVE

CHURCH ST

UNNAMED

DELAWARE AVE

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 20 40 60 80
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/03/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

GRAHAM ST

UNNAMED

N BERGEN ST

JETER AVE

HILL ST

CRAIG ST

UNNAMED

RUSSELL AVE

N LYNN ST

017

STANLEY AVE

CHURCH ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE:
MS4 OUTFALL DETAIL MAP

PROJECT TITLE:
2017 MS4 PERMIT

0 40 80 120 160
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
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SCALE: Reference Scale: 1:0
DATE: 08/03/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

X:\Projects\Municipal\MS4\Fountain Hill Borough\MXD\Outfall Details\MS4 Detail - Outfall 017.mxd

JETER AVE

N BERGEN ST

RUSSELL AVE

HILL ST

UNNAMED

UNNAMED

N LYNN ST

018

STANLEY AVE

CHURCH ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
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- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE:
MS4 OUTFALL DETAIL MAP

PROJECT TITLE:
2017 MS4 PERMIT

0 20 40 60 80
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/03/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

RUSSELL AVE
N LYNN ST
UNNAMED
UNNAMED
CHURCH ST
STANLEY AVE
CHURCH ST
019
N LYNN ST
DELAWARE AVE
UNNAMED
BROADWAY
GREENE CT
CHERRY ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 30 60 90 120
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
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SCALE: Reference Scale: 1:0
DATE: 08/03/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

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HILL ST

UNNAMED

CHURCH ST

UNNAMED

N LYNN ST

STANLEY AVE

020

CHURCH ST

N LYNN ST

DELAWARE AVE

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
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- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE:
MS4 OUTFALL DETAIL MAP

PROJECT TITLE:
2017 MS4 PERMIT

0 20 40 60 80
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/03/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1



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PLAN TITLE: MS4 OUTFALL DETAIL MAP

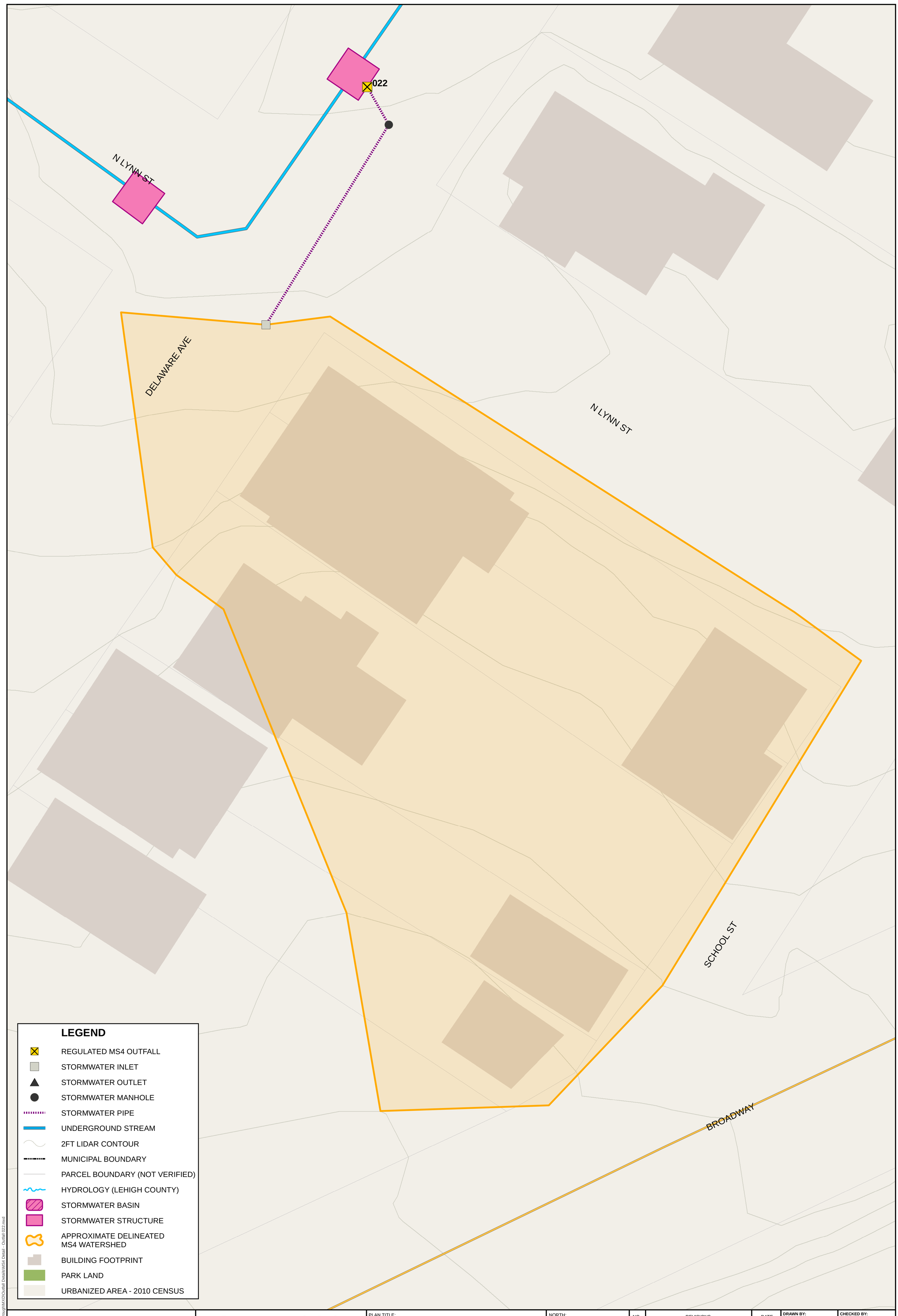
PROJECT TITLE: 2017 MS4 PERMIT

0 100 200 300 400
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/03/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1



LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
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FOUNTAIN HILL BOROUGH
LEHIGH COUNTY
PENNSYLVANIA

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 10 20 30 40
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/03/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

X:\Projects\Municipal\MS4\Fountain Hill Borough\MXD\Outfall Details\MS4 Detail - Outfall 022.mxd

KIEFFER ST
HILL ST
JETER AVE
N HOFFERT ST
ELM ST
UNNAMED
GRAHAM ST
UNNAMED
HILL ST
N BERGEN ST
UNNAMED
CHURCH ST
UNNAMED
UNNAMED
023
RUSSELL AVE
N LYNN ST
CHURCH ST
N LYNN ST
SCHOOL ST
DELAWARE AVE
BROADWAY
UNNAMED
S LYNN ST
CHERRY ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

X:\Projects\Municipal\MS4\Fountain Hill Borough\MXD\Outfall Details\MS4 Detail - Outfall 023.mxd

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 60 120 180 240
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/03/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1



LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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FOUNTAIN HILL BOROUGH
LEHIGH COUNTY
PENNSYLVANIA

PLAN TITLE:
MS4 OUTFALL DETAIL MAP

PROJECT TITLE:
2017 MS4 PERMIT

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0 60 120 180 240
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
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SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

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HILL ST
ELM ST
CHURCH ST
STANLEY AVE
UNNAMED
CHURCH ST
DELAWARE AVE
N HOFFERT ST
N BERGEN ST
SCHOOL ST
SENECA ST
BEECH ST
BEECH ST
025

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 30 60 90 120
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

DELAWARE AVE

N BERGEN ST

CHURCH ST

026

BEECH ST

SCHOOL ST

N LYNN ST

BROADWAY

S LYNN ST

CHERRY ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
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- PARK LAND
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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 20 40 60 80
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

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SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

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LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 120 240 360 480
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

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SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

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PLAN TITLE:
MS4 OUTFALL DETAIL MAP

PROJECT TITLE:
2017 MS4 PERMIT

0 60 120 180 240
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

STANLEY AVE
UNNAMED CHURCH ST
DELAWARE AVE
N HOFFERT ST
SCHOOL ST
SENECA ST
LONG ST
CHEROKEE ST
PAWNEE ST
ITASKA ST
S CLEWELL ST
029
BEECH ST
N BERGEN ST
BEECH ST
HOFFERT ST
CHERRY ST
GENEVA ST
S BENNER AVE
FREDERICK ST
ELM ST
N LYNN ST
BROADWAY
SIOUX ST
S HOFFERT ST
UNNAMED
CHERRY ST
GARDEN ST
GREENE CT
S LYNN ST
RONCA ST
UNNAMED
S BERGEN ST
WILEY ST
CHURCH ST
CHURCH ST
MORAVIA ST
S HOFFERT ST
RESERVOIR ST
S LYNN ST
BIRCH ST
FORREST AVE
WARREN ST
TULIP LN
SUNSET LN
SCOTTIE LN

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 100 200 300 400
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

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PLAN TITLE:
MS4 OUTFALL DETAIL MAP

PROJECT TITLE:
2017 MS4 PERMIT

0 10 20 30 40
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
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SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

X:\Projects\Municipal\MS4\Fountain Hill Borough\MXD\Outfall Details\MS4 Detail - Outfall 030.mxd

GRAHAM ST
JETER AVE
N BISHOPTHORPE ST
OSTRUM ST
CHURCH ST
N BISHOPTHORPE ST
HILL ST
KIEFFER ST
PINE ST
OAK ST
TOMBLER ST
N CLEWELL ST
SCHOOL ST
ELM ST
HILL ST
STANLEY AVE
CHURCH ST
DELAWARE AVE
N HOFFERT ST
SENECA ST
031
CHEROKEE ST
LONG ST
PAWNEE ST
N BENNER AVE
BEECH ST
S CLEWELL ST
ITASKA ST
BROADWAY
S BENNER AVE
HOFFERT ST
CHERRY ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 80 160 240 320
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1



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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 30 60 90 120
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

OSTRUM ST

CHURCH ST

N BISHOPTHORPE ST

TOMBLER ST

DELAWARE AVE

SCHOOL ST

SENECA ST

LONG ST

CHEROKEE ST

PAWNEE ST

033

SCHOENER ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 40 80 120 160
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

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SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

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SENECA ST

LONG ST

N BISHOPTHORPE ST

CHEROKEE ST

PAWNEE ST

034

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE:
MS4 OUTFALL DETAIL MAP

PROJECT TITLE:
2017 MS4 PERMIT

0 20 40 60 80
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

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SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

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N BENNER AVE
BROADWAY
ITASKA ST
035
CHERRY ST
S CLEWELL ST
SIOUX ST
GENEVA ST
S BENNER AVE
UNNAMED
FREDERICK ST
WILEY ST
ELM ST
S HOFFERT ST
MORAVIA ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 50 100 150 200
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

X:\Projects\Municipal\MS4\Fountain Hill Borough\MXD\Outfall Details\MS4 Detail - Outfall 035.mxd

PAWNEE ST
CANNING ST
N CLEWELL ST
ITASKA ST
HELLENER ST
S CLEWELL ST
BROADWAY
036
CHERRY ST
SIOUX ST
GENEVA ST
S BENNER AVE
UNNAMED
FREDERICK ST
MORAVIA ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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LEHIGH COUNTY
PENNSYLVANIA

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 50 100 150 200
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

CHERRY ST

037

ELM ST

FREDERICK ST

GENEVA ST

S BENNER AVE

UNNAMED

WILEY ST

S HOFFERT ST

MORAVIA ST

UNNAMED

S HOFFERT ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 50 100 150 200
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

038

CHERRY ST

FREDERICK ST

SIOUX ST

S HOFFERT ST

ELM ST

WILEY ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 20 40 60 80
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

039

CHERRY ST

FREDERICK ST

SIOUX ST

S HOFFERT ST

ELM ST

WILEY ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
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- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE:
MS4 OUTFALL DETAIL MAP

PROJECT TITLE:
2017 MS4 PERMIT

0 20 40 60 80
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
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SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

X:\Projects\Municipal\MS4\Fountain Hill Borough\MXD\Outfall Details\MS4 Detail - Outfall 039.mxd

040

RIVERSIDE DR

UNNAMED

BRIGHTON ST

OSTRUM ST

MOHICAN ST

ST. LUKES PL

SENECA ST

FIOT ST

DELAWARE AVE

LONG ST

CHURCH ST

SCHOOL ST

TOMBLER ST

GRAHAM ST

JETER AVE

OAK ST

N CLEWELL ST

PINE ST

HILL ST

KIEFFER ST

ELM ST

CHEROKEE ST

N HOFFERT ST

UNNAMED

RUSSELL AVE

HILL ST

STANLEY AVE

CHURCH ST

GRAHAM ST

N LYNN ST

N L

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 150 300 450 600
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
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SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO: 1 OF 1

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FREDERICK ST

S BENNER AVE

WILEY ST

ELM ST

MORAVIA ST

S HOFFERT ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 40 80 120 160
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
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SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

X:\Projects\Municipal\MS4\Fountain Hill Borough\MXD\Outfall Details\MS4 Detail - Outfall 041.mxd

N BENNER AVE
BROADWAY
ITASKA ST
CHERRY ST
S CLEWELL ST
SIOUX ST
GENEVA ST
042
S BENNER AVE
FREDERICK ST
UNNAMED
ELM ST
S HOFFERT ST
WILEY ST
MORAVIA ST
UNN
S HOFFERT ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 50 100 150 200
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

SENECA ST

LONG ST

CHEROKEE ST

043

PAWNEE ST

N CLEWELL ST

BROADWAY

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 20 40 60 80
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:0
DATE: 08/08/2017
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

RIVERSIDE DR

UNNAMED

BRIGHTON ST

044

MOHICAN ST

DELAWARE AVE

OSTRUM ST

UNCAS ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 80 160 240 320
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:960
DATE: 6/24/2020
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

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JETER AVE

N BISHOPTHORPE ST

OSTRUM ST

ST. LUKES PL

MOHICAN ST

045

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
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- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 60 120 180 240
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:720
DATE: 6/24/2020
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

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ST. LUKES PL

OSTRUM ST

046

MOHICAN ST

DELAWARE AVE

DAKOTAH ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 40 80 120 160
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:480
DATE: 6/24/2020
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

JETER AVE
N BISHOPTHORPE ST
HILL ST
TOMBLER ST
CHURCH ST
N BISHOPTHORPE ST
DELAWARE AVE
SCHOOL ST
ST. LUKES PL
OSTRUM ST
MOHICAN ST
SENECA ST
FIOT ST
047

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
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- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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LEHIGH COUNTY
PENNSYLVANIA

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PLAN TITLE: MS4 OUTFALL DETAIL MAP

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0 60 120 180 240
(IN FEET)

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SCALE: Reference Scale: 1:720
DATE: 6/24/2020
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

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OSTRUM ST

ST. LUKES PL

MOHICAN ST

048

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
- URBANIZED AREA - 2010 CENSUS

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PLAN TITLE:
MS4 OUTFALL DETAIL MAP

PROJECT TITLE:
2017 MS4 PERMIT

0 40 80 120 160
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:480
DATE: 6/24/2020
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

X:\Projects\Municipal\MS4\Fountain Hill Borough\MXD\Outfall Details\MS4 Detail - Outfall 048.mxd

049

ST. LUKES PL

OSTRUM ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
- MUNICIPAL BOUNDARY
- PARCEL BOUNDARY (NOT VERIFIED)
- HYDROLOGY (LEHIGH COUNTY)
- STORMWATER BASIN
- STORMWATER STRUCTURE
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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 20 40 60 80
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

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SCALE: Reference Scale: 1:240
DATE: 6/24/2020
PROJECT NO: FH17-14
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JETER AVE

N BISHOPTHORPE ST

050

OSTRUM ST

ST. LUKES PL

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
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0 40 80 120 160
(IN FEET)

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051

OSTRUM ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
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(IN FEET)

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JETER AVE

N BISHOPTHORPE ST

052

N BISHOPTHORPE ST

OSTRUM ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
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- STORMWATER STRUCTURE
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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 30 60 90 120
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

DRAWN BY: MJA
CHECKED BY: JES
SCALE: Reference Scale: 1:360
DATE: 6/24/2020
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

GRAHAM ST

TOMBLER ST

JETER AVE

N BISHOPTHORPE ST

OSTRUM ST

053

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
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0 30 60 90 120
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

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SCALE: Reference Scale: 1:360
DATE: 6/24/2020
PROJECT NO: FH17-14
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GRAHAM ST

TOMBLER ST

JETER AVE

N BISHOPTHORPE ST

HILL ST

N BISHOPTHORPE ST

OSTRUM ST

054

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
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0 30 60 90 120
(IN FEET)

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SCALE: Reference Scale: 1:360
DATE: 6/24/2020
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

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TOMBLER ST

JETER AVE

N BISHOPTHORPE ST

HILL ST

055

OSTRUM ST

CHURCH ST

E ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
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PROJECT TITLE: 2017 MS4 PERMIT

0 30 60 90 120
(IN FEET)

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SCALE: Reference Scale: 1:360
DATE: 6/24/2020
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

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GRAHAM ST

JETER AVE

TOMBLER ST

HILL ST

N BISHOPTHORPE ST

056

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
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- STORMWATER BASIN
- STORMWATER STRUCTURE
- APPROXIMATE DELINEATED MS4 WATERSHED
- BUILDING FOOTPRINT
- PARK LAND
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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 60 120 180 240
(IN FEET)

NORTH:

NO.	REVISIONS	DATE

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SCALE: Reference Scale: 1:720
DATE: 6/24/2020
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

GRAHAM ST

JETER AVE

HILL ST

N BISHOPTHORPE ST

057

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
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0 60 120 180 240
(IN FEET)

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PROJECT NO: FH17-14
SHEET NO. 1 OF 1

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CRAIG ST
GRAHAM ST
UNNAMED
N BERGEN ST
JETER AVE
N HOFFERT ST
RUSSELL AVE
UNNAMED
HILL ST
UNNAMED
STANLEY AVE
HILL ST
KIEFFER ST
PINE ST
CHURCH ST
N CLEWELL ST
OAK ST
TOMBLER ST
OSTRUM ST
GRAHAM ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
- 2FT LIDAR CONTOUR
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- BUILDING FOOTPRINT
- PARK LAND
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PLAN TITLE: MS4 OUTFALL DETAIL MAP

PROJECT TITLE: 2017 MS4 PERMIT

0 100 200 300 400
(IN FEET)

NORTH:

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SCALE: Reference Scale: 1:1,200
DATE: 6/24/2020
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

KIEFFER ST

GRAHAM ST

059

PINE ST

HILL ST

JETER AVE

OAK ST

TOMBLER ST

OSTRUM ST

LEGEND

- REGULATED MS4 OUTFALL
- STORMWATER INLET
- STORMWATER OUTLET
- STORMWATER MANHOLE
- STORMWATER PIPE
- UNDERGROUND STREAM
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PROJECT TITLE:
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0 50 100 150 200
(IN FEET)

NORTH:

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DRAWN BY: MJA
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SCALE: Reference Scale: 1:600
DATE: 6/24/2020
PROJECT NO: FH17-14
SHEET NO. 1 OF 1

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **001**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☐ Commercial ☒ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 04.50"
	Longitude: -75° 24' 12.81"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **36** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine flow to Outfall 001. Outfall 001 is where a headwater stream enters the Borough's stormsewer system and becomes part of the Borough's stormwater conveyance. There was no evidence of illicit discharge at time of screening. Debris covering inlet grate (trash & grass).

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **002**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 36' 03.54"
☐ Industrial ☐ Urban Residential	Longitude: -75° 24' 12.15"
☐ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☒ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **18** in	☒ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 002. Outfall 002 is an inlet in the street where stormwater flows to an existing stream that is piped through the Borough and part of the Borough's stormwater conveyance. Debris (grass and gravel) covering approximately 1/6 of inlet grate.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **003**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☐ Commercial ☒ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 00.31"
	Longitude: -75° 24' 09.64"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **48** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 003. This point is where a headwater stream is culverted under Dodson Street, opposite the Observation Point. Outfall 003 is an inlet that discharges directly to the stream that is piped through the Borough and part of the Borough's stormwater conveyance. There were no flows observed other than the stream flow.

RESPONSIBLE OFFICIAL CERTIFICATION

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Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: **PAG132250**
Date of Inspection: June 21, 2022	Outfall ID No.: **005**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 35' 57.97"
☐ Industrial ☐ Urban Residential	Longitude: -75° 24' 08.42"
☒ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: 12 in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 005. Outfall 005 is an inlet in the street where stormwater flows to an existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

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Responsible Official Name	Signature
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BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: **PAG132250**
Date of Inspection: June 21, 2022	Outfall ID No.: **006**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 35' 55.73"
☐ Industrial ☐ Urban Residential	Longitude: -75° 24' 08.94"
☐ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe **See Notes**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☐ Circular ☐ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: _____ in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine flow to Outfall 006. Outfall 006 is a manhole in the street where stormwater flows into an existing stream that is piped through the Borough and becomes part of the Borough's stormwater conveyance. Pipe diameter was assumed to be 12" diameter; outlet pipe obscured by inlet filter bag.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: June 21, 2022	Outfall ID No.: **007**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 35' 55.73"
☐ Industrial ☐ Urban Residential	Longitude: -75° 24' 08.94"
☐ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe **See Notes**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☐ Circular ☐ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: _____in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine flow to Outfall 007. Outfall 007 is a manhole in the street where stormwater flows into an existing stream that is piped through the Borough and becomes part of the Borough's stormwater conveyance. Pipe diameter was assumed to be 12" diameter; outlet pipe obscured by inlet filter bag.

RESPONSIBLE OFFICIAL CERTIFICATION

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Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: **PAG132250**
Date of Inspection: June 21, 2022	Outfall ID No.: **008**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 35' 53.44"
☐ Industrial ☐ Urban Residential	Longitude: -75° 24' 08.59"
☐ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe **See Notes**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: 12 in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine flow to Outfall 008. Outfall 008 is a manhole in the street where stormwater flows into an existing stream that is piped through the Borough and becomes part of the Borough's stormwater conveyance. Pipe diameter was assumed to be 12" diameter; outlet pipe obscured by inlet filter bag.

RESPONSIBLE OFFICIAL CERTIFICATION

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Responsible Official Name	Signature
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BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: June 21, 2022	Outfall ID No.: **009**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 35' 53.44"
☐ Industrial ☐ Urban Residential	Longitude: -75° 24' 08.59"
☐ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe **See Notes**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☐ Circular ☐ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: _____ in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine flow to Outfall 009. Outfall 009 is an inlet in the street where stormwater flows to an existing stream that flows through the Borough and is part of the Borough's stormwater conveyance. Pipe diameter was assumed to be 12" diameter; outlet pipe obscured by inlet filter bag.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: June 21, 2022	Outfall ID No.: **010**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 35' 51.27"
☐ Industrial ☐ Urban Residential	Longitude: -75° 24' 08.27"
☐ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe **See Notes**	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **12** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine flow to Outfall 010. Outfall 010 is an inlet in the street where stormwater flows to an existing stream that flows through the Borough and is part of the Borough's stormwater conveyance. Pipe diameter was assumed to be 12" diameter; outlet pipe obscured by inlet filter bag.

RESPONSIBLE OFFICIAL CERTIFICATION

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Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: June 21, 2022	Outfall ID No.: **011**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 35' 51.27"
☐ Industrial ☐ Urban Residential	Longitude: -75° 24' 08.27"
☐ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe **See Notes**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☐ Circular ☐ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: _____ in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine flow to Outfall 011. Outfall 011 is an inlet in the street where stormwater flows to an existing stream that flows through the Borough and is part of the Borough's stormwater conveyance. Pipe diameter was assumed to be 12" diameter; outlet pipe obscured by inlet filter bag.

RESPONSIBLE OFFICIAL CERTIFICATION

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Pamela J. Kemecsy	
Responsible Official Name	Signature
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BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: June 21, 2022	Outfall ID No.: **012**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 36' 00.31"
☐ Industrial ☐ Urban Residential	Longitude: -75° 24' 06.93"
☒ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: June 16, 2022
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe **See Notes**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☐ Circular ☐ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: _____ in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point for Outfall 012 is a curb inlet on Broadway that discharges to Outfall 012, manhole in street. Pipe size that discharges was unable to be determined. There was no observed flow to outfall.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

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BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **013**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☐ Commercial ☒ Suburban Residential ☒ Open Space ☐ Other:	Latitude: 40° 36' 01.15"
	Longitude: -75° 24' 04.14"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **15** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 013. Outfall 013 is an inlet in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: **PAG132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **014**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☒ Commercial ☒ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 04.06"
	Longitude: -75° 23' 58.04"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **12** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☒ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 014. Outfall 014 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
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BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **015**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☐ Commercial ☒ Suburban Residential ☒ Open Space ☐ Other:	Latitude: 40° 36' 04.15"
	Longitude: -75° 23' 58.13"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **24** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 015. Outfall 015 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **016**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☐ Commercial ☒ Suburban Residential ☒ Open Space ☐ Other:	Latitude: 40° 36' 07.29"
	Longitude: -75° 23' 55.09"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **8** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 016. Outfall 016 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: **PAG132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **017**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☐ Commercial ☒ Suburban Residential ☒ Open Space ☐ Other:	Latitude: 40° 36' 07.52"
	Longitude: -75° 23' 54.99"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **12** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☒ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 017. Outfall 017 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **018**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 36' 07.53"
☐ Industrial ☐ Urban Residential	Longitude: -75° 23' 54.87"
☐ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: 12 in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 018. Outfall 018 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **019**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☐ Commercial ☒ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 05.75"
	Longitude: -75° 23' 52.04"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **12** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 019. Outfall 019 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: **PAG132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **020**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☐ Commercial ☒ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 05.79"
	Longitude: -75° 23' 51.91"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **12** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 020. Outfall 020 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **021**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☐ Commercial ☒ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 05.70"
	Longitude: -75° 23' 51.85"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: 12 in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 021. Outfall 021 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance. Piece of trash on inlet grate.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

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Responsible Official Name	Signature
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BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **022**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☐ Commercial ☒ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 06.01"
	Longitude: -75° 23' 51.26"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **12** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 022. Outfall 022 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance. Small amount of debris (grass) on inlet grate.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **023**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 36' 08.90"
☐ Industrial ☐ Urban Residential	Longitude: -75° 23' 48.62"
☒ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **18** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 023. Outfall 023 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: **PAG132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **024**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☒ Commercial ☒ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 07.81"
	Longitude: -75° 23' 46.69"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe **See Notes**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☐ Circular ☐ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: _____ in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☒ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 024. Outfall 024 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance. Pipe size and type was difficult to determine due to excessive vegetation growth in box.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **025**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☒ Commercial ☒ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 07.06"
	Longitude: -75° 23' 45.20"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe **See Notes**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☐ Circular ☐ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: _____ in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 025. Outfall 025 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance. Pipe size and type was difficult to determine due to depth of box. Small amount of debris (grass & trash) on inlet grate.

RESPONSIBLE OFFICIAL CERTIFICATION

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Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **026**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☒ Commercial ☒ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 07.02"
	Longitude: -75° 23' 45.13"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **12** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 026. Outfall 026 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance. Small amount of debris on inlet grate.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **027**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 36' 07.87"
☐ Industrial ☐ Urban Residential	Longitude: -75° 23' 43.61"
☒ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **18** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 027. Outfall 027 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance. There was also an approximate 1" diameter PVC pipe in bottom of box but no discharge observed.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **028**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 36' 10.22"
☐ Industrial ☐ Urban Residential	Longitude: -75° 23' 41.47"
☒ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **18** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 028. Outfall 028 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
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BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: **PAG132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **029**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 36' 09.82"
☐ Industrial ☐ Urban Residential	Longitude: -75° 23' 40.42"
☐ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **12** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 029. Outfall 029 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance. Debris (trash & grass) covering approximately 90% of inlet grate.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **030**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 36' 09.87"
☐ Industrial ☐ Urban Residential	Longitude: -75° 23' 40.07"
☐ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **18** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 030. Outfall 030 is an inlet in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance. Small amount of debris on inlet grate.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **031**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 36' 15.19"
☐ Industrial ☐ Urban Residential	Longitude: -75° 23' 34.35"
☒ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe **See Notes**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☐ Circular ☐ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: _____ in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point for Outfall 031 is a curb inlet that discharges to Outfall 031, manhole in street. Pipe size that discharges was unable to be determined. There was no observed flow to outfall.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **032**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☒ Commercial ☒ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 14.33"
	Longitude: -75° 23' 33.24"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **24** in	☒ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☒ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Outfall 032 is the existing piped stream that is part of the Borough's conveyance. No illicit discharge suspected.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
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MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **033**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☐ Commercial ☒ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 19.27"
	Longitude: -75° 23' 25.85"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☒ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **18** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 033. Outfall 033 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **034**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☒ Commercial ☒ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 17.85"
	Longitude: -75° 23' 29.94"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **12** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 034. Outfall 034 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance. Approximately 1/3 of inlet grate covered with debris.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **037**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 36' 07.07"
☐ Industrial ☐ Urban Residential	Longitude: -75° 23' 33.72"
☐ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **12** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 037. Outfall 037 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance. GRASS, GRAVEL, & SOME TRASH COVERING 2'/2 OF INLET GRATE W/ INLET BAG

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **038**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 36' 06.52"
☐ Industrial ☐ Urban Residential	Longitude: -75° 23' 34.94"
☐ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 21, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **12** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 038. Outfall 038 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **039**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 36' 06.52"
☐ Industrial ☐ Urban Residential	Longitude: -75° 23' 34.94"
☐ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: 12 in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 039. Outfall 039 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **041**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 35' 59.12"
☐ Industrial ☐ Urban Residential	Longitude: -75° 23' 29.94"
☐ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **36** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☒ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 041. This point is the headwater stream that is culverted at the Observation Point. Outfall 041 is a manhole in the street where stormwater is introduced to the existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: **PAG132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **042**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☐ Commercial ☒ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 07.07"
	Longitude: -75° 23' 33.72"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **12** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☒ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 042. Outfall 042 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance. SMALL AMOUNT OF DEBRIS COVERING INLET GRATE

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: **PAG132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **043**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☒ Commercial ☒ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 17.65"
	Longitude: -75° 23' 29.61"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☒ PVC ☐ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **18** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 043. Outfall 043 is a manhole in the street where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance. Approx 1/3 of inlet grate covered w/ grass.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
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BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **044**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☒ Commercial ☒ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 40.85"
	Longitude: -75° 23' 28.77"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☑ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☑ HDPE ☐ Steel ☐ Other	☑ Circular ☑ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: 36 in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
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BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **045**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 36' 35.86"
☐ Industrial ☐ Urban Residential	Longitude: -75° 23' 31.59"
☒ Commercial ☒ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **8** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 045. Outfall 045 is a manhole in a St. Luke's parking lot where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **047**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 36' 34.17"
☐ Industrial ☐ Urban Residential	Longitude: -75° 23' 33.16"
☒ Commercial ☐ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **24** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 047. Outfall 047 is a manhole in a St. Luke's parking lot where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **048**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 36' 34.17"
☐ Industrial ☐ Urban Residential	Longitude: -75° 23' 33.16"
☒ Commercial ☐ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **24** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 048. Outfall 048 is a manhole in a St. Luke's parking lot where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: **PAG132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **049**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☒ Commercial ☐ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 32.42"
	Longitude: -75° 23' 34.67"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☑ Closed Pipe SEE NOTES	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☑ Other	☑ Circular ☐ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: _____ in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments: INLET IN PARKING LOT INTO A MANHOLE. INLET USED AS OBSERVATION POINT. NO FLOW OBSERVED INTO INLET, BUT STANDING WATER OBSERVED IN BOTTOM OF MANHOLE/INLET BOX

RESPONSIBLE OFFICIAL CERTIFICATION

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Pamela J. Kemecsy	
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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: **PAG132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **050**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☒ Commercial ☐ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 31.66"
	Longitude: -75° 23' 35.31"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **8** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 050. Outfall 050 is a manhole in a St. Luke's parking lot where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **053**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☒ Commercial ☐ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 27.31"
	Longitude: -75° 23' 40.81"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe **See Notes**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☐ Circular ☐ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: _____ in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 053. A vehicle was parked over the Observation Point (inlet) and the inlet bottom and pipe size could not be viewed. There was no observed flow to Observation Point.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: **PAG132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **054**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☒ Commercial ☐ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 27.31"
	Longitude: -75° 23' 40.81"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☒ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **18** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 054. Outfall 054 is a manhole in a St. Luke's parking lot where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: **PAG132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **055**
Land Uses in Outfall Drainage Area (Select All):	Latitude: 40° 36' 27.31"
☐ Industrial ☐ Urban Residential	Longitude: -75° 23' 40.81"
☒ Commercial ☐ Suburban Residential	Dry Weather Inspection? ☒ Yes ☐ No
☐ Open Space ☐ Other:	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☒ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☒ HDPE ☐ Steel ☐ Other	☒ Circular ☒ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: **8** in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☒ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

Observation Point was used to determine and/or observe flow to Outfall 055. Outfall 055 is a manhole in a St. Luke's parking lot where stormwater flows to existing stream that is piped through the Borough and part of the Borough's stormwater conveyance.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: **PAG132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **056**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☒ Commercial ☐ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 28.12"
	Longitude: -75° 23' 42.77"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☐ Closed Pipe	☑ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☑ Circular ☑ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: 24 in	☑ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

RESPONSIBLE OFFICIAL CERTIFICATION

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BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: **PAG132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **057**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☒ Commercial ☐ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 28.20"
	Longitude: -75° 23' 43.12"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☑ Closed Pipe	☑ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☑ Circular ☑ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: 24 in	☑ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

RESPONSIBLE OFFICIAL CERTIFICATION

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Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: PA**G132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **058**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☐ Commercial ☒ Suburban Residential ☒ Open Space ☐ Other:	Latitude: 40° 36' 25.72"
	Longitude: -75° 23' 45.71"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☐ Closed Pipe NOTES	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☐ Circular ☐ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: _____ in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments: INLET FILTER BAG INSTALLED AND INSIDE OF INLET/OBSERVATION POINT NOT VISIBLE

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 OUTFALL FIELD SCREENING REPORT

BACKGROUND INFORMATION

Permittee Name: **Borough of Fountain Hill**	NPDES Permit No.: **PAG132250**
Date of Inspection: **June 21, 2022**	Outfall ID No.: **059**
Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☐ Commercial ☒ Suburban Residential ☐ Open Space ☐ Other:	Latitude: 40° 36' 25.39"
	Longitude: -75° 23' 45.69"
	Dry Weather Inspection? ☒ Yes ☐ No
	Date of Previous Precipitation: **June 16, 2022**
	Amount of Previous Precipitation: **1.22** in
Inspector Name(s): **Pamela J. Kemecsy, SEO**	Were Photographs Taken? ☒ Yes ☐ No
	Are Photographs Attached? ☒ Yes ☐ No

OUTFALL DESCRIPTION

TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
☐ Closed Pipe SEE NOTES	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other	☐ Circular ☐ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple ☐ Other ☐ Other	Diameter: _____ in	☐ In Water ☐ With Sediment
☐ Open Channel	☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other	☐ Trapezoid ☐ Parabolic ☐ Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No *(If No, skip to Certification Section)*

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? ☐ Yes ☐ No If Yes, provide a description below.

Does the dry weather flow contain an odor? ☐ Yes ☐ No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No
If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No
If Yes, provide a description below.

Were sample(s) collected of the dry weather flow? ☐ Yes ☐ No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS

PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments: INLET FILTER BAG INSTALLED & INSIDE OF INLET/OBSERVATION POINT NOT VISIBLE.

RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Pamela J. Kemecsy	
Responsible Official Name	Signature
610.691.5644	June 21, 2022
Telephone No.	Date

50 YEARS Hanover Engineering

252 Brodhead Road • Suite 100 • Bethlehem, PA 18017-8944
Phone: 610.691.5644 • Fax: 610.691.6968 • HanoverEng.com



Photo 1: Observation Point for Outfall 001. Headwater stream also enters Borough's storm sewer system immediately upstream of this inlet.



Photo 2: Observation Point for Outfall 002.



Photo 3: Observation Point for Outfall 003.



Photo 4: Observation Point for Outfall 004. To be screened no later than March 15, 2023.



Photo 5: Outfall 005.



Photo 6: Observation Point for Outfall 006. This was inadvertently reported as Observation Point for Outfall 007 during the last outfall screening (previous permit term).



Photo 7: Observation Point for Outfall 007. This was inadvertently reported as Observation Point for Outfall 006 during the last outfall screening (previous permit term).



Photo 8: Observation Point for Outfall 008.



Photo 9: Observation Point for Outfall 009.



Photo 10: Observation Point for Outfall 010. This was inadvertently reported as Observation Point for Outfall 011 during the last outfall screening (previous permit term).



Photo 11: Observation Point for Outfall 011. This was inadvertently reported as Observation Point for Outfall 010 during the last outfall screening (previous permit term).



Photo 12: Observation Point for Outfall 012; curb inlet on Broadway.



Photo 13: Observation Point for Outfall 013.

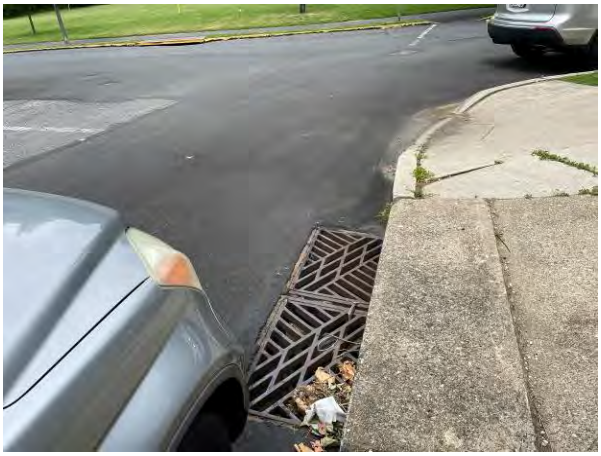


Photo 14: Observation Point for Outfall 014.



Photo 15: Observation Point for Outfall 015.



Photo 16: Observation Point for Outfall 016.



Photo 17: Observation Point for Oufall 017.



Photo 18: Observation Point for Outfall 018.



Photo 19: Observation Point for Outfall 019.



Photo 20: Observation Point for Outfall 020.



Photo 21: Observation Point for Outfall 021.



Photo 22: Observation Point for Outfall 022.



Photo 23: Observation Point for Outfall 023.



Photo 24: Observation Point for Outfall 024. The outfall is approximately 400 feet from observation point.



Photo 25: Observation Point for Outfall 025 (inlet located under parked vehicle).



Photo 26: Observation Point for Outfall 026.



Photo 27: Observation Point for Outfall 027.



Photo 28: Observation Point for Outfall 028.



Photo 29: Observation Point for Outfall 029.



Photo 30: Outfall 030.



Photo 31: Observation Point for Outfall 031. The two (2) inlets located in the background of the photo connect to a manhole in the middle of N. Clewell Street (approximate center of photo) which is the regulated outfall.



Photo 32: Outfall 032.



Photo 33: Observation Point for Outfall 033.



Photo 34: Observation Point for Outfall 034.

Photo 35: Observation Point for Outfall 035.
To be screened no later than March 15, 2023.

Photo 36: Observation Point for Outfall 036.
To be screened no later than March 15, 2023.



Photo 37: Observation Point for Outfall 037.



Photo 38: Observation Point for Outfall 038.



Photo 39: Observation Point for Outfall 039.

Photo 40: Previously reported as Outfall 1. Brighton Street catch basin to be screened no later than March 15, 2023.



Photo 40a: Photo inside catch basin looking upstream into culvert. To be screened no later than March 15, 2023.



Photo 41: Observation Point for Outfall 041. This is also the location where a headwater stream enters Borough's storm sewer system.



Photo 42: Observation Point for Outfall 042.



Photo 43: Observation Point for Outfall 043.



Photo 44: Observation Point for Outfall 044.



Photo 45: Observation Point for Outfall 045.



Photo 46: Observation Point for Outfall 046.
To be screened no later than March 15, 2023.



Photo 47: Observation Point for Outfall 047.



Photo 48: Observation Point for Outfall 048.



Photo 49: Observation Point for Outfall 049.



Photo 50: Observation Point for Outfall 050.



Photo 51: Observation Point for Outfall 051.
To be screened no later than March 15, 2023.



Photo 52: Observation Point for Outfall 052.
To be screened no later than March 15, 2023.



Photo 53: Observation Point for Outfall 053.



Photo 54: Observation Point for Outfall 054.



Photo 55: Observation Point for Outfall 055.



Photo 56: Observation Point for Outfall 056.



Photo 57: Observation Point for Outfall 057.



Photo 58: Observation Point for Outfall 058.



Photo 59: Observation Point for Outfall 059.

MCM #4

CONSTRUCTION SITE STORM WATER RUNOFF CONTROL

MCM #5

POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

CHAPTER 26

WATER

Part 1

Stormwater Management

A. General Provisions

§101. Statement of Findings
§102. Purpose
§103. Statutory Authority
§104. Applicability
§105. Compatibility with Other Requirements
§106. Exemptions

B. Definitions

§111. Definitions

C. Stormwater Management Requirements

§121. General Requirements
§122. Stormwater Management Districts
§123. Stormwater Management District Implementation Provisions
§124. Calculation Methodology
§125. Permit Requirements by Other Government Entities
§126. Erosion and Sediment Control During Regulated Earth-Disturbance Activities
§127. Postconstruction Water Quality Criteria

D. Drainage Plan Requirements

§131. General Requirements
§132. Exemptions
§133. Drainage Plan Contents
§134. Plan Submission
§135. Drainage Plan Review
§136. Modification of Plans
§137. Hardship Waiver Procedure

E. Inspections

§141. Schedule of Inspections

F. Fees and Expenses

§151. General
§152. Expenses Covered by Fees

G. Maintenance Responsibilities

§161. General Requirements
§162. Responsibilities for Operations and Maintenance of BMPs
§163. Adherence to Approved BMP Operations and Maintenance Plan
§164. Operations and Maintenance Agreement for Privately Owned Stormwater BMPs
§165. Stormwater Management Easements
§166. Recording of Approved BMP Operations and Maintenance Plan and Related Agreements
§167. Municipal Stormwater BMP Operation and Maintenance Fund

H. Enforcement

§171. Right of Entry
§172. Notification
§173. Public Nuisance
§174. Suspension and Revocation of Permits and Approvals
§175. Penalties
§176. Appeals

I. Prohibitions

§181. Prohibited Discharges
§182. Prohibited Connections
§183. Roof Drains
§184. Alteration of BMPs

Part 1

Stormwater Management

A. General Provisions.

§101. Statement of Findings.

1. The Borough Council of the Borough of Fountain Hill (the "Borough") has concluded that inadequate management of accelerated runoff of stormwater resulting from development throughout a watershed increases flood flows and velocities, contributes to erosion and sedimentation, changes the natural hydrologic patterns, destroys aquatic habitats, elevates aquatic pollutant concentrations and loadings, overtaxes the carrying capacity of streams and storm sewers, greatly increases the cost of public facilities to carry and control stormwater, undermines floodplain management and flood control efforts in downstream communities, reduces groundwater recharge, and threatens public health and safety.

2. A comprehensive program of stormwater management, including reasonable regulation of development and activities causing accelerated erosion and loss of natural infiltration, is fundamental to the public health, safety and welfare and the protection of the people of the Borough and all of the people of the commonwealth, their resources, and the environment.

3. Stormwater can be an important resource by providing groundwater recharge for water supplies and base flow of streams, which also protects and maintains surface water quality.

4. Public education on the control of pollution from stormwater is an essential component in successfully addressing stormwater.

5. Federal and state regulations require the Borough to implement a program of stormwater controls. The Borough is required to obtain a permit for stormwater discharges from its separate storm sewer systems under the National Pollutant Discharge Elimination System (NPDES).

6. Nonstormwater discharges to Borough separate storm sewer systems can contribute to pollution of waters of the commonwealth by the Borough.

(Ord. 610, 1/5/1998, §101; as amended by Ord. 729, 4/18/2007)

§102. Purpose.

The purpose of this Part 1 is to promote the public health, safety, and welfare within the Borough by minimizing the damages and maximizing the benefits described in §101 of this Part by provisions designed to:

A. Manage stormwater runoff impacts at their source by regulating activities which cause such problems.

B. Utilize and preserve the desirable existing natural drainage systems.

C. Encourage infiltration of stormwater, where appropriate, to maintain groundwater recharge, to prevent degradation of surface water and groundwater quality and to otherwise protect water resources.

D. Maintain the existing flows and quality of streams and watercourses in the Borough and the commonwealth.

E. Preserve and restore the flood-carrying capacity of streams.

F. Provide for proper maintenance of all permanent stormwater management BMPs that are implemented in the Borough.

G. Provide review procedures and performance standards for stormwater planning, design, and management.

H. Manage stormwater impacts close to the runoff source which require a minimum of structures and rely on natural processes.

I. Meet legal water quality requirements under state law, including regulations at 25 Pa. Code Chapter 93.4a, to protect and maintain existing uses and maintain the level of water quality to support those uses in all streams and to protect and maintain water quality in special-protection streams.

J. Prevent scour and erosion of stream banks and streambeds.

K. Provide standards to meet the NPDES permit requirements.

(Ord. 610, 1/5/1998, §102; as amended by Ord. 729, 4/18/2007)

§103. Statutory Authority.

The Borough is empowered to regulate these activities by the authority of the Act of October 4, 1978, P.L. 844 (Act 167), as amended, the Stormwater Management Act,[1] and the Code of Ordinances of the Borough, including, specifically, Chapter 22 thereof.

(Ord. 610, 1/5/1998, §103)

[1] **Editor's Note: See 32 P.S. §680.1 et seq.**

§104. Applicability.

1. This Part 1 shall apply to the entire Borough.

2. The following activities are defined as "regulated activities" and shall be governed by this Part 1:

   A. Land development [Chapter 22].

   B. Subdivision [Chapter 22].

   C. Construction of new or additional impervious surfaces (driveways, parking lots, etc.).

   D. Construction of new buildings or additions to existing buildings.

   E. Diversion or piping of any natural or man-made stream channel.

   F. Installation of stormwater systems or appurtenances thereto.

   G. Regulated earth-disturbance activities.

(Ord. 610, 1/5/1998, §104; as amended by Ord. 729, 4/18/2007)

§105. Compatibility With Other Requirements.

Approvals issued pursuant to this Part 1 do not relieve the applicant of the responsibility to secure required permits or approvals for activities regulated by any other applicable code, rule, act or ordinance.

(Ord. 610, 1/5/1998, §107)

§106. Exemptions.

1. Impervious Cover. Any proposed regulated activity, except those defined in §104, Subsection 2E, F and G, which would create 10,000 square feet or less of additional impervious cover, is exempt from the drainage plan preparation provisions of this Part 1. All of the impervious cover added incrementally to a site above the initial 10,000 square feet shall be subject to the drainage plan preparation provisions of this Part. If a site has previously received an exemption and is proposing additional development such that the total impervious cover on the site exceeds 10,000 square feet, the total impervious cover on the site proposed since the original ordinance date must meet the provisions of this Part 1.

   A. The date of the Borough adoption of the original Act 167 Stormwater Management Ordinance, January 26, 1998, shall be the starting point from

which to consider tracts as "parent tracts" in which future subdivisions and respective impervious area computations shall be cumulatively considered.

B. For development taking place in stages, the entire development plan must be used in determining conformance with these criteria.

C. Additional impervious cover shall include but not be limited to additional indoor living spaces, decks, patios, garages, driveways, storage sheds and similar structures, any roof, parking or driveway areas and any new streets and sidewalks constructed as part of or for the proposed regulated activity.

D. Any additional areas proposed to initially be gravel, crushed stone, porous pavement, etc., shall be assumed to be impervious for the purposes of comparison to the exemption criteria. Any existing gravel, crushed stone, or hard-packed soil areas on a site shall be considered as pervious cover for the purpose of exemption evaluation.

2. Prior Drainage Plan Approval. Any regulated activity for which a drainage plan was previously prepared as part of a subdivision or land development proposal that received preliminary plan approval from the Borough prior to the effective date of this Part is exempt from the drainage plan preparation provisions of this Part, except as cited in §106, Subsection 3, provided that the approved drainage plan included design of stormwater facilities to control runoff from the site currently proposed for regulated activities consistent with ordinance provisions in effect at the time of approval and the approval has not lapsed under the Municipalities Planning Code. If significant revisions are made to the drainage plan after both the preliminary plan approval and the effective date of this Part, preparation of a new drainage plan, subject to the provisions of this Part, shall be required. Significant revisions would include a change in control methods or techniques, relocation or redesign of control measures, or changes necessary because soil or other conditions are not as stated on the original drainage plan.

3. These exemptions shall not relieve the applicant from implementing such measures as are necessary to protect health, safety, property, and state water quality requirements. These measures include adequate and safe conveyance of stormwater on the site and as it leaves the site. These exemptions do not relieve the applicant from the responsibility to secure required permits or approvals for activities regulated by any other applicable code, rule, act, or ordinance.

4. No exemptions shall be provided for regulated activities as defined in §104, Subsection 2E, F and G.

(Ord. 729, 4/18/2007)

B. Definitions.

§111. Definitions.

As used in this Part 1, the following terms shall have the meanings indicated:

ACCELERATED EROSION — the removal of the surface of the land, through the combined action of human activities and natural processes, at a rate greater than would occur because of the natural processes alone.

BEST MANAGEMENT PRACTICE (BMP) — activities, facilities, measures, or procedures used to manage stormwater quantity and quality impacts from the regulated activities listed in §104, to meet state water quality requirements, to promote groundwater recharge, and to otherwise meet the purposes of this Part 1.

BEST MANAGEMENT PRACTICE OPERATIONS AND MAINTENANCE PLAN — documentation, included as part of a drainage plan, detailing the proposed BMPs, how they will be operated and maintained, and who will be responsible.

BIORETENTION — densely vegetated, depressed features that store stormwater and filter it through vegetation, mulch, planting soil, etc. Ultimately stormwater is evapotranspirated, infiltrated, or discharged. Optimal bioretention areas mimic natural forest ecosystems in terms of species diversity, density, distribution, use of native plants, etc.

BUFFER —

A. STREAMSIDE BUFFER — a zone of variable width located along a stream that is vegetated and is designed to filter pollutants from runoff.

B. SPECIAL GEOLOGIC FEATURE BUFFER — a required isolation distance from a special geologic feature to a proposed BMP needed to reduce the risk of sinkhole formation due to stormwater management activities.

CAPTURE/REUSE — stormwater management techniques such as cisterns and rain barrels which direct runoff into storage devices, surface or subsurface, for later reuse, such as for irrigation of gardens and other planted areas. Because this stormwater is utilized and no pollutant discharge results, water quality performance is superior to other noninfiltration BMPs.

CARBONATE BEDROCK — Rock consisting chiefly of carbonate minerals, such as limestone and dolomite; specifically a sedimentary rock composed of more than 50% by weight of carbonate minerals that underlies soil or other unconsolidated, superficial material.

CATASAUQUA CREEK STUDY AREA — the area comprised of the Catasauqua Creek Watershed and Lehigh River Subbasin 4 (six unnamed creeks and 27 direct drainage subareas). See map in Appendix A.1

CISTERN — an underground reservoir or tank for storing rainwater.

CLOSED DEPRESSION — a distinctive bowl-shaped depression in the land surface. It is characterized by internal drainage, varying magnitude, and an unbroken ground surface.

CONSERVATION DISTRICT — the Lehigh or Northampton County Conservation District, as appropriate.

CONSTRUCTED WETLANDS — constructed wetlands are similar to wet ponds (see below) and consist of a basin which provides for necessary stormwater storage as well as a permanent pool or water level, planted with wetland vegetation. To be successful, constructed wetlands must have adequate natural hydrology (runoff inputs as well as soils and water table which allow for maintenance of a permanent pool of water). In these cases, the permanent pool must be designed carefully, usually with shallow edge benches, so that water levels are appropriate to support carefully selected wetland vegetation.

CULVERT — a pipe, conduit or similar structure, including appurtenant works, which carries surface water.

DAM — an artificial barrier, together with its appurtenant works, constructed for the purpose of impounding or storing water or another fluid or semifluid or a refuse bank fill or structure for highway, railroad or other purposes which does or may impound water or another fluid or semifluid.

DEP — the Pennsylvania Department of Environmental Protection (formerly the Pennsylvania Department of Environmental Resources).

DESIGN STORM — the magnitude of precipitation from a storm event measured in probability of occurrence (e.g., fifty-year storm) and duration (e.g., 24 hours) and used in computing stormwater management control systems.

DETENTION BASIN — a basin designed to retard stormwater runoff by temporarily storing the runoff end releasing it at a predetermined rate.

DEVELOPER — a person, partnership, association, corporation or other entity, or any responsible person therein or agent thereof, that undertakes any regulated activity of this Part 1.

DEVELOPMENT SITE — the specific tract of land for which a regulated activity is proposed.

[1] **Editor's Note: Appendix A is on file in the Borough offices.**

DIFFUSED DRAINAGE — see "sheet flow."

DRAINAGE EASEMENT — a right granted by a landowner to a grantee, allowing the use of private land for stormwater management purposes.

DRAINAGE PLAN — the documentation of the proposed stormwater management controls, if any, to be used for a given development site, the contents of which are established in §133.

EARTH-DISTURBANCE ACTIVITY — a construction or other human activity which disturbs the surface of the land, including but not limited to clearing and grubbing, grading, excavations, embankments, road maintenance, building construction and the moving, depositing, stockpiling or storing of soil, rock, or earth materials.

EROSION — the removal of soil particles by the action of water, wind, ice or other geological agents.

EXISTING USES — those uses actually attained in the water body on or after November 28, 1975, whether or not they are included in the water quality standards (25 Pa. Code Chapter 93.1).

FILL — man-made deposits of natural soils or rock products and waste materials.

FILTER STRIPS — see "vegetated buffers."

FREEBOARD — the incremental depth in a stormwater management structure, provided as a safety factor of design, above that required to convey the design runoff events.

GROUNDWATER RECHARGE — replenishment of existing natural underground water supplies.

HARDSHIP WAIVER REQUEST — a written request for a waiver alleging that the provisions of this Part 1 inflict unnecessary hardship upon the applicant. A hardship waiver does not apply to and is not available from the water quality provisions of this Part and should not be granted.

HYDROLOGIC SOIL GROUP (HSG) — soils are classified into four HSGs (A, B, C and D) to indicate the minimum infiltration rates which are obtained for bare soil after prolonged wetting. The Natural Resource Conservation Service (NRCS) of the United States Department of Agriculture defines the four groups and provides a list of most of the soils in the United States and their group classification. The soils in the area of the development site may be identified from a soil survey report that can be obtained from local NRCS offices or conservation district offices. Soils become less permeable as the HSG varies from A to D.

HOT-SPOT LAND USES — a land use or activity that generates higher concentrations of hydrocarbons, trace metals, or other toxic substances than typically found in stormwater runoff. These land uses are listed in §127, Subsection 16.

IMPERVIOUS SURFACE — a surface which prevents the percolation of water into the ground.

INFILTRATION STRUCTURE — a structure designed to direct runoff into the ground, e.g., drench drain, seepage pit or seepage trench.

KARST — a type of topography or landscape characterized by depressions, sinkholes, limestone towers and steep-sided hills, underground drainage and caves. Karst is usually formed on carbonate rocks such as limestones or dolomites and sometimes gypsum.

LAND DEVELOPMENT — any of the following activities:

A. The improvement of one lot or two or more contiguous lots, tracts, or parcels of land for any purpose involving a group of two or more residential or nonresidential buildings, whether proposed initially or cumulatively, or a single nonresidential building on a lot or lots, regardless of the number of occupants or tenure; or the division or allocation of land or space, whether initially or cumulatively, between or among two or more existing or prospective occupants by means of or for the purpose of streets, common areas, leaseholds, condominiums, building groups or other features.

B. A subdivision of land.

C. Development in accordance with Section 503(1.1) of the Pennsylvania Municipalities Planning Code.[1]

LOADING RATE — the ratio of the land area draining to the system, as modified by the weighting factors in §124, Subsection 2, compared to the base area of the infiltration system.

LOCAL RUNOFF CONVEYANCE FACILITIES — any natural channel or manmade conveyance system which has the purpose of transporting runoff from the site to the mainstem.

LOW-IMPACT DEVELOPMENT — a development approach that promotes practices that will minimize postdevelopment runoff rates and volumes, thereby minimizing needs for artificial conveyance and storage facilities. Site design practices include preserving natural drainage features, minimizing impervious surface area, reducing the hydraulic connectivity of impervious surfaces, and protecting natural depression storage.

[1] **Editor's Note: See 53 P.S. §503(1.1).**

MAINSTEM (MAIN CHANNEL) — any stream segment or other conveyance in a Dual Release Rate or Conditional No Detention I Subarea used as a reach in the Catasauqua Creek study area hydrologic model. In Conditional No Detention II Subareas, the main channel is the Lehigh River.

MANNING EQUATION (MANNING FORMULA) — a method for calculation of velocity of flow (e.g., feet per second) and flow rate (e.g., cubic feet per second) in open channels based upon channel shape, roughness, depth of flow and slope. Open channels may include closed conduits so long as the flow is not under pressure.

MARYLAND STORMWATER DESIGN MANUAL — a stormwater design manual written by the Maryland Department of the Environment and the Center for Watershed Protection. As of January 2004, the Manual can be obtained through the following web site: www.mde.state.md.us.

MINIMUM DISTURBANCE/MINIMUM MAINTENANCE PRACTICES (MD/MM) — site design practices in which careful limits are placed on site clearance prior to development allowing for maximum retention of existing vegetation (woodlands and other), minimum disturbance and compaction of existing soil mantle and minimum site application of chemicals postdevelopment. Typically, MD/MM includes disturbance setback criteria from buildings, as well as related site improvements such as walkways, driveways, roadways, and any other improvements. These criteria may vary by community context, as well as by type of development being proposed. Additionally, MD/MM also shall include provisions (e.g., deed restrictions, conservation easements) to protect these areas from future disturbance and from application of fertilizers, pesticides, and herbicides.

MUNICIPALITY — the Borough of Fountain Hill, Lehigh County, Pennsylvania.

NO-HARM OPTION — the option of using a less-restrictive runoff quantity control if it can be shown that adequate and safe runoff conveyance exists and that the less-restrictive control would not adversely affect health, safety, and property.

NPDES REGULATIONS — National Pollutant Discharge Elimination System regulations.

NRCS — the Natural Resource Conservation Service, United States Department of Agriculture (formerly the Soil Conservation Service).

OIL/WATER SEPARATOR — a structural mechanism designed to remove free oil and grease (and possibly solids) from stormwater runoff.

OUTFALL — "point source," as described in 40 CFR 122.2, at the point where the Borough's storm sewer system discharges to surface waters of the commonwealth.

OWNER — one with an interest in and often dominion over a property.

PEAK DISCHARGE — the maximum rate of flow of stream runoff at a given location and time resulting from a specified storm event.

PENN STATE RUNOFF MODEL (CALIBRATED) — the computer-based hydrologic modeling technique adapted to the Catasauqua Creek Study Area for the Act 167 Plan. The model has been calibrated to reflect actual flow values by adjusting key model input parameters.

PERSON — an individual, partnership, public or private association or corporation, firm, trust, estate, municipality, governmental unit, public utility or any other legal entity whatsoever which is recognized by law as the subject of rights and duties.

POINT SOURCE — any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, or conduit from which stormwater is or may be discharged, as defined in state regulations at 25 Pa. Code §92.1.

PRELIMINARY SITE INVESTIGATION — the determination of the depth to bedrock, the depth to the seasonal high-water table, and the soil permeability for a possible infiltration location on a site through the use of published data and onsite surveys. In carbonate bedrock areas, the location of special geologic features must also be determined along with the associated buffer distance to the possible infiltration area. See Appendix G.1

PUBLIC WATER SUPPLIER — a person who owns or operates a public water system.

PUBLIC WATER SYSTEM — a system which provides water to the public for human consumption, which has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. (See 25 Pa. Code Chapter 109.)

QUALIFIED GEOTECHNICAL PROFESSIONAL — a licensed professional geologist or a licensed professional engineer who has a background or expertise in geology or hydrogeology.

RATIONAL METHOD — a method of peak runoff calculation using a standardized runoff coefficient (rational c), acreage of tract and rainfall intensity determined by return period and by the time necessary for the entire tract to contribute runoff. The rational formula is stated as follows: Q=ciA, where "Q" is the calculated peak flow rate in cubic feet per second, "c" is the dimensionless runoff coefficient (see Appendix C2), "i" is the rainfall intensity in inches per hour, and "A" is the area of the tract in acres.

[1] **Editor's Note: Appendix G is on file in the Borough offices.**
[2] **Editor's Note: Appendix C is on file in the Borough offices.**

REACH — any of the natural or man-made runoff conveyance channels used for modeling purposes to connect the subareas and transport flows downstream.

RECHARGE VOLUME (REv) — the portion of the water quality volume (WQv) used to maintain groundwater recharge rates at development sites. (See §127, Subsection 10.)

REGULATED ACTIVITIES — actions or proposed actions which impact upon proper management of stormwater runoff end which are governed by this Part 1 as specified in §104.

REGULATED EARTH-DISTURBANCE ACTIVITIES — earth-disturbance activity other than agricultural plowing or tilling of one acre or more with a point-source discharge to surface waters or to the municipality's storm sewer system or earth-disturbance activity of five acres or more regardless of the planned runoff. This includes earth disturbance on any portion of, part of or during any stage of a larger common plan of development.

RELEASE RATE — the percentage of the predevelopment peak rate of runoff for a development site to which the postdevelopment peak rate of runoff must be controlled to protect downstream areas.

RETURN PERIOD — the average interval in years over which an event of a given magnitude can be expected to recur. For example, the twenty-five-year return period rainfall or runoff events would be expected to recur on the average once every 25 years.

ROAD MAINTENANCE — earth-disturbance activities within the existing road cross-section, such as grading and repairing existing unpaved road surfaces, cutting road banks, cleaning or clearing drainage ditches and other similar activities.

RUNOFF — that part of precipitation which flows over the land.

SEDIMENT TRAPS/CATCH BASIN SUMPS — chambers which provide storage below the outlet in a storm inlet to collect sediment, debris, and associated pollutants typically requiring periodic cleanout.

SEEPAGE PIT/SEEPAGE TRENCH — an area of excavated earth filled with loose stone or similar material and into which surface water is directed for infiltration into the ground.

SEPARATE STORM SEWER SYSTEM — a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels or storm drains) primarily used for collecting and conveying stormwater runoff.

SHEET FLOW — stormwater runoff flowing in a thin layer over the ground surface.

SOIL COVER COMPLEX METHOD — a method of runoff computation developed by ARCS which is based upon relating soil type and land use/cover to a runoff parameter called a “curve number.”

SPECIAL GEOLOGIC FEATURES — carbonate bedrock features, including but not limited to closed depressions, existing sinkholes, fracture traces, lineaments, joints, faults, caves, pinnacles, and geologic contacts between carbonate and non-carbonate bedrock which may exist and must be identified on a site when stormwater management BMPs are being considered.

SPILL PREVENTION AND RESPONSE PROGRAM — a program that identifies procedures for preventing and, as needed, cleaning up potential spills and makes such procedures known and the necessary equipment available to appropriate personnel.

STATE WATER QUALITY REQUIREMENTS — as defined under state regulations, protection of designated and existing uses (See 25 Pa. Code Chapters 93 and 96), including.

A. Each stream segment in Pennsylvania has a designated use, such as "cold water fishes" or "potable water supply," which is listed in Chapter 93. These uses must be protected and maintained under state regulations.

B. "Existing uses" are those attained as of November 1975, regardless of whether they have been designated in Chapter 93. Regulated earth-disturbance activities must be designed to protect and maintain existing uses and maintain the level of water quality necessary to protect those uses in all streams and to protect and maintain water quality in special-protection streams.

C. Water quality involves the chemical, biological, and physical characteristics of surface water bodies. After regulated earth-disturbance activities are complete, these characteristics can be impacted by addition of pollutants such as sediment and changes in habitat through increased flow volumes and/or rates as a result of changes in land surface area from those activities. Therefore, permanent discharges to surface waters must be managed to protect the stream bank, streambed, and structural integrity of the waterway to prevent these impacts.

STORAGE INDICATION METHOD — a reservoir routing procedure based on solution of the continuity equation (inflow minus outflow equals the change in storage for a given time interval) and based on outflow being a unique function of storage volume.

STORM DRAINAGE PROBLEM AREAS — areas which lack adequate stormwater collection and/or conveyance facilities and which present a hazard to persons

or property. These areas are either documented in Appendix B1 of this Part 1 or identified by the Borough or Borough Engineer.

STORM SEWER — a system of pipes or other conduits which carries intercepted surface runoff, street water and other wash waters, or drainage, but secludes domestic sewage and industrial wastes.

STORMWATER — the surface runoff generated by precipitation reaching the ground surface.

STORMWATER FILTERS — any number of structural mechanisms, such as multichamber catch basins, sand/peat filters, sand filters, and so forth, which are installed to intercept stormwater flow and remove pollutants prior to discharge. Typically, these systems require periodic maintenance and cleanout.

STORMWATER MANAGEMENT PLAN — the plan for managing stormwater runoff adopted by Lehigh and Northampton Counties for the Catasauqua Creek Study Areas as required by the Act of October 4, 1978, P.L. 864, (Act 167), as amended, and known as the "Stormwater Management Act."

STREAM — a watercourse.

SUBAREA — the smallest unit of watershed breakdown for hydrologic modeling purposes for which the runoff control criteria have been established in the stormwater management plan.

SUBDIVISION — the division or redivision of a lot, tract or parcel of land by any means into two or more lots, tracts, parcels or other divisions of land, including changes in existing lot lines for the purpose, whether immediate or future, of lease, transfer or ownership or building or lot ownership.

SURFACE WATERS OF THE COMMONWEALTH — any and all rivers, streams, creeks, rivulets, impoundments, ditches, watercourses, storm sewers, lakes, dammed water, wetlands, ponds, springs, and all other bodies or channels of conveyance of surface water or parts thereof, whether natural or artificial, within or on the boundaries of this commonwealth.

SWALE — a low-lying stretch of land which gathers or carries surface water runoff.

TECHNICAL BEST MANAGEMENT PRACTICE MANUAL AND INFILTRATION FEASIBILITY REPORT, NOVEMBER 2002 — the report written by Cahill Associates that addresses the feasibility of infiltration in carbonate bedrock areas in the Little Lehigh Creek Watershed. The report is available at the Lehigh Valley Planning Commission offices.

[1] **Editor's Note: Appendix B is on file in the Borough offices.**

TRASH/DEBRIS COLLECTORS — racks, screens or other similar devices installed in a storm drainage system to capture coarse pollutants (trash, leaves, etc.).

VEGETATED BUFFERS — gently sloping areas that convey stormwater as sheet flow over a broad, densely vegetated earthen area, possibly coupled with the use of level spreading devices. Vegetated buffers should be situated on minimally disturbed soils and have low-flow velocities and extended residence times.

VEGETATED SWALES —

A. Vegetated earthen channels designed to convey stormwater. These swales are not considered to be water quality BMPs.

B. Broad, shallow, densely vegetated, earthen channels designed to treat stormwater while slowly infiltrating, evapotranspirating, and conveying it. Swales should be gently sloping with low flow velocities to prevent erosion. Check dams may be added to enhance performance.

WATERCOURSE — any channel or conveyance of surface water having a defined bed and banks, whether natural or artificial, with perennial or intermittent flow.

WATER QUALITY INSERTS — any number of commercially available devices that are inserted into storm inlets to capture sediment, oil, grease, metals, trash, debris, etc.

WATER QUALITY VOLUME (WQv) — the volume needed to capture and treat 90% of the average annual rainfall volume. (See §127, Subsection 2.)

WATERSHED — the entire region or area drained by a river or other body of water, whether natural or artificial.

WET DETENTION PONDS — basins that provide for necessary stormwater storage, as well as a permanent pool of water. To be successful, wet ponds must have adequate natural hydrology (both runoff inputs, as well as soils and water table which allow for maintenance of a permanent pool of water) and must be able to support a healthy aquatic community so as to avoid creation of mosquito and other health and nuisance problems.

(Ord. 610, 1/5/1998, Art. II; as amended by Ord. 729, 4/18/2007)

C. Stormwater Management Requirements.

§121. General Requirements.

1. All regulated activities in the Borough shall be subject to the stormwater management requirements of this Part 1.

2. Storm drainage systems shall be provided to permit unobstructed flow in natural watercourses, except as modified by stormwater detention facilities, recharge facilities, water quality facilities, pipe systems, or open channels consistent with this Part 1.

3. The existing locations of concentrated drainage discharge onto adjacent property shall not be altered without written approval of the affected property owner(s).

4. Areas of existing diffused drainage discharge onto adjacent property shall be managed such that, at minimum, the peak diffused flow does not increase in the general direction of discharge, except as otherwise provided in this Part 1. If diffused flow is proposed to be concentrated and discharged onto adjacent property, the developer must document that there are adequate downstream conveyance facilities to safely transport the concentrated discharge to the point of predevelopment flow concentration, to the stream reach or otherwise prove that no harm will result from the concentrated discharge. Areas of existing diffused drainage discharge shall be subject to any applicable release rate criteria in the general direction of existing discharge whether they are proposed to be concentrated or maintained as diffused drainage areas.

5. Where a site is traversed by watercourses other than those for which a one-hundred-year floodplain is defined by the Borough, there shall be provided drainage easements conforming substantially with the line of such watercourses. The width of any easement shall be adequate to provide for unobstructed flow of storm runoff based on calculations made in conformance with §124 for the one-hundred-year return period runoff and to provide a freeboard allowance of 0.5 foot above the design water surface level. The terms of the easement shall prohibit excavation, the placing of fill or structures, and any alterations which may adversely affect the flow of stormwater within any portion of the easement. Also, periodic maintenance of the easement to ensure proper runoff conveyance shall be required. Watercourses for which the one-hundred-year floodplain is formally defined are subject to the applicable Borough floodplain regulations.

6. When it can be shown that, due to topographic conditions, natural drainage swales on the site cannot adequately provide for drainage, open channels may be constructed conforming substantially to the line and grade of such natural drainage swales. Capacities of open channels shall be calculated using the Manning Equation.

7. Postconstruction BMPs shall be designed, installed, operated, and maintained to meet the requirements of the Clean Streams Law and implementing regulations, including the established practices in 25 Pa. Code Chapter 102 and the specifications of this Part 1 as to prevent accelerated erosion in watercourse channels and at all points of discharge.

8. No earth-disturbance activities associated with any regulated activities shall commence until approval by the Borough of a plan which demonstrates compliance with the requirements of this Part 1.

9. Techniques described in Appendix F (Low-Impact Development)[1] of this Part are encouraged because they reduce the costs of complying with the requirements of this Part and the state water quality requirements.

10. Infiltration for stormwater management is encouraged where soils and geology permit, consistent with the provisions of this Part 1 and, where appropriate, the Recommendation Chart for Infiltration Stormwater Management BMPs in Carbonate Bedrock in Appendix D.[2]

(Ord. 610, 1/5/1998, §301; as amended by Ord. 709, 3/7/2005, §§I, II; and by Ord. 729, 4/18/2007)

§122. Stormwater Management Districts.

1. Mapping of Stormwater Management Districts. To implement the provisions of the Catasauqua Creek Watershed and Lehigh River Subbasin 4 Stormwater Management Plan, the Borough is hereby divided into stormwater management districts consistent with the Catasauqua Creek Release Rate Map presented in the plan. The boundaries of the stormwater management districts are shown on an official map which is available for inspection at the Borough office. A copy of the official map, at a reduced scale, is included in Appendix A[3] w for general reference.

2. Description of Stormwater Management Districts. Three types of stormwater management districts may be applicable to the Borough, namely Conditional No Detention I Districts, Conditional No Detention II Districts, and Dual Release Rate Districts, as described below:

   A. Conditional No Detention I Districts. Within these districts, the capacity of the "local seven" runoff conveyance facilities (as defined in Part 1B) must be calculated to determine if adequate capacity exists. For this determination, the developer must calculate peak flows assuming that the site is developed as proposed and that the remainder of the local watershed is in the existing condition. The developer must also calculate peak flows assuming that the entire local watershed is developed per current zoning and that all new development would use the runoff controls specified by this Part 1. The larger of the two peak flows calculated will be used in determining if adequate capacity exists. If adequate capacity exists to safely transport runoff from the site to the main channel (as defined in Part 1B), these watershed areas may discharge postdevelopment peak runoff without detention facilities. If the

[1] **Editor's Note: Appendix F is on file in the Borough offices.**
[2] **Editor's Note: Appendix D is on file in the Borough offices.**
[3] **Editor's Note: Appendix A is on file in the Borough offices.**

capacity calculations show that the local runoff conveyance facilities lack adequate capacity, the developer shall either use a 100% release rate control or provide increased capacity of downstream elements to convey increased peak flows consistent with §123, Subsection 13. Any capacity improvements must be designed to convey runoff from development of all areas tributary to the improvement consistent with the capacity criteria specified in §123, Subsection 3. By definition, a storm drainage problem area associated with the local runoff conveyance facilities indicates that adequate capacity does not exist. Sites in these districts are still required to meet all of the water quality requirements in §127.

B. Conditional No Detention II Districts. Within these districts, the capacity of the local runoff conveyance facilities must be calculated in the same manner as the Conditional No Detention I Districts. In this case, however, adequate capacity must be demonstrated from the site to the Lehigh River. After determining if adequate capacity exists, the developer shall use either no detention, 100% release rate or provide capacity improvements as detailed in Subsection 2A, Conditional No Detention I Districts.

C. Dual Release Rate Districts. Within this district, the two-year postdevelopment runoff must be controlled to 30% of the redevelopment two-year runoff peek. Further, the ten-year, twenty-five-year and one-hundred-year postdevelopment runoff must be controlled to 100% of the predevelopment peak.

(Ord. 610, 1/5/1998, §302; as amended by Ord. 729, 4/18/2007)

§123. Stormwater Management District Implementation Provisions.

1. Any stormwater management controls required by this Part 1 and subject to a dual release rate criteria shall meet the applicable release rate criteria for each of the two-, ten- and one-hundred-year return period runoff events consistent with the calculation methodology specified in §124. Applicants shall provide a comparative pre- and postconstruction stormwater management hydrograph analysis for each direction of discharge and for the site overall to demonstrate compliance with the provisions of this Part 1.

2. The exact location of the stormwater management district boundaries as they apply to a given development site shall be determined by mapping the boundaries using the two-foot topographic contours provided as part of the drainage plan. The district boundaries as originally drawn coincide with topographic divides or, in certain instances, are drawn from the intersection of the watercourse and a physical feature, such as the confluence with another watercourse or a potential flow obstruction (e.g., road, culvert, bridge, etc.). The physical feature is the downstream limit of the subarea, and the subarea boundary is drawn from that point upslope to each topographic divide along the path perpendicular to the contour lines.

3. Any downstream capacity analysis conducted in accordance with this Part 1 shall use the following criteria for determining adequacy for accepting increased peak flow rates:

   A. Natural or man-made channels or swales must be able to convey the increased runoff associated with a two-year return period event within their banks at velocities consistent with protection of the channels from erosion. Acceptable velocities shall be based upon criteria included in the DEP Erosion and Sediment Pollution Control Program Manual (April, 1990). Permissible velocities from the DEP Manual for selected channels are presented in Appendix C of this Part.[1]

   B. Natural or man-made channels or swales must be able to convey the increased twenty-five-year return period runoff without creating any hazard to persons or property.

   C. Culverts, bridges, storm sewers or any other facilities which must pass or convey flows from the tributary area must be designed in accordance with DEP Chapter 105 regulations (if applicable) and, at minimum, pass the increased twenty-five-year return period runoff.

4. For a proposed development site located within one release rate category subarea, the total runoff from the site shall meet the applicable release rate criteria for development sites with multiple directions of runoff discharge; individual drainage directions may be designed for up to a 100% release rate so long as the total runoff from the site is controlled to the applicable release rate.

5. For a proposed development site located within two or more release category subareas, the peak discharge rate from any subarea shall be the predevelopment peak discharge for that subarea multiplied by the applicable release rate. The calculated peak discharges shall apply regardless of whether the grading plan changes the drainage area by subarea. An exception to the above may be granted if discharges from multiple subareas recombine in proximity to the site. In this case, peak discharge in any direction may be a 100% release rate, provided that the overall site discharge meets the weighted average release rate.

6. For a proposed development site located partially within a release rate category subarea and partially within a conditional/provisional no detention subarea, the size of the predevelopment drainage area on a site may not be changed postdevelopment to create potentially adverse conditions on downstream properties except as part of a no-harm or hardship waiver procedure. No portion of a site may be regraded between areas within the Catasauqua Creek Watershed Study Area and any adjacent watershed except as part of a no-harm or hardship waiver procedure.

7. Within a release rate category area for a proposed development site which has areas which drain to a closed depression(s), the design release from the site will be

[1] **Editor's Note: Appendix C is on file in the Borough offices.**

the lesser of (a) the applicable release rate flow assuming no closed depression(s), or (b) the existing peak flow actually leaving the site. In cases where (b) would result in an unreasonably small design release, the design discharge of less than or equal to the release rate will be determined by the available downstream conveyance capacity to the main channel calculated using Subsection 3 and the minimum orifice criteria.

8. Off-site areas which drain through a proposed development site are not subject to release rate criteria when determining allowable peak runoff rates. However, on-site drainage facilities shall be designed to safely convey off-site flows through the development site.

9. Where the site area to be impacted by a proposed development activity differs significantly from the total site area, only the proposed impact area shall be subject to the release rate criteria.

10. Development proposals which, through groundwater recharge or other means, do not increase the rate or volume of runoff discharged from the site are not subject to the release rate provisions of the Part 1.

11. No-Harm Water Quantity Option.

    A. For any proposed development site not located in a conditional/provisional no detention district, the developer has the option of using a less-restrictive runoff control (including no detention) if the developer can prove that special circumstances exist for the proposed development site and that no harm would be caused by discharging at a higher runoff rate than that specified by the plan. "Special circumstances" are defined as any hydrologic or hydraulic aspects of the development itself not specifically considered in the development of the plan runoff control strategy. Proof of no harm would have to be shown from the development site through the remainder of the downstream drainage network to the confluence of the creek with the Lehigh River. Proof of no harm must be shown using the capacity criteria specified in §123, Subsection 3, if downstream capacity analysis is a part of the no-harm justification.

    B. Attempts to prove no harm based upon downstream peak flow versus capacity analysis shall be governed by the following provisions:

        (1) The peak flow values to be used for downstream areas for the design return period storms (two-, ten-, twenty-five- and one-hundred-year) shall be the values from the calibrated PSRM Model for the Catasauqua Creek Watershed or as calculated by an applicant using an alternate method acceptable to the Borough. The flow values from the PSRM Model would be supplied to the developer by the Borough upon request.

(2) Any available capacity in the downstream conveyance system as documented by a developer may be used by the developer only in proportion to his development site acreage relative to the total upstream undeveloped acreage from the identified capacity (i.e., if his site is 10% of the upstream undeveloped acreage, he may use up to 10% of the documented downstream available capacity).

(3) Developer-proposed runoff controls which would generate increased peak flow rates at storm drainage problem areas would, by definition, be precluded from successful attempts to prove no harm, except in conjunction with proposed capacity improvements for the problem areas consistent with §123, Subsection 13. Any no-harm justifications shall be submitted by the developer as part of the drainage plan submission per Subpart D. Developers submitting no-harm justifications must still meet all of the water quality requirements in §127.

12. Regional Detention Alternatives. For certain areas within the study area, it may be more cost effective to provide one control facility for more than one development site than to provide an individual control facility for each development site. The initiative and funding for any regional runoff control alternatives are the responsibility of prospective developers. The design of any regional control basins must incorporate reasonable development of the entire upstream watershed. The peak outflow of a regional basin would be determined on a case-by case-basis using the hydrologic model of the watershed consistent with protection of the downstream watershed areas. "Hydrologic model" refers to the calibrated version of the Penn State Runoff Model as developed for the stormwater management plan.

13. Capacity Improvements. In certain instances, primarily within the conditional no detention areas, local drainage conditions may dictate more-stringent levels of runoff control than those based upon protection of the entire watershed. In these instances, if the developer could prove that it would be feasible to provide capacity improvements to relieve the capacity deficiency in the local drainage network, then the capacity improvements could be provided by the developer in lieu of runoff controls on the development site. Peak flow calculations are to be done assuming that the local watershed is in the existing condition and then assuming that the local watershed is developed per current zoning and using the specified runoff controls. Any capacity improvements would be designed using the larger of the peak flows and the capacity criteria specified in Subsection 3. All new development in the entire subarea(s) within which the proposed development site is located shall be assumed to implement the developer's proposed discharge control, if any. Capacity improvements may also be provided as necessary to implement any regional detention alternatives or to implement a modified no-harm option which proposes specific capacity improvements to provide that a less-stringent discharge control would not create any harm downstream.

14. (Reserved)

15. Compatibility with NPDES Requirements. Any proposed regulated activity for which a permanent stormwater quality control detention basin is required under the NPDES regulations shall use the more-stringent runoff control criteria between this Part 1 and the NPDES requirements.

16. For development sites proposed to take place in phases, all detention ponds shall be designed to meet the applicable release rate(s) applied to all site areas tributary to the proposed pond discharge direction. All site tributary areas will be assumed as developed, regardless of whether all site tributary acres are proposed for development at that time. An exception shall be sites with multiple detention ponds in series where only the downstream pond must be designed to the stated release rate.

(Ord. 610, 1/5/1998, §303; as amended by Ord. 709, 3/7/2005, §§III-V; and by Ord. 729, 4/18/2007)

§124. Calculation Methodology.

1. Stormwater runoff from all development sites shall be calculated using either the Rational Method or the Soil Cover Complex Methodology.

2. Infiltration BMP loading rate percentages in the Recommendation Chart for Infiltration Stormwater Management BMPs in Carbonate Bedrock in Appendix D[1] shall be calculated as follows:

$$\left(\frac{\text{Area tributary to infiltration BMP}}{\text{Base area of infiltration BMP}}\right)*100\%$$

The area tributary to the infiltration BMP shall be weighted as follows:

A. All disturbed areas to be made impervious: weight at 100%.

B. All disturbed areas to be made pervious: weight at 50%.

C. All undisturbed pervious areas: weight at 0%.

D. All existing impervious areas: weight at 100%.

3. Soil thickness is to be measured from the bottom of any proposed infiltration system.

A. The effective soil thickness in the Recommendation Chart for Infiltration Stormwater Management BMPs in Carbonate Bedrock in Appendix D[2] is

[1] **Editor's Note: Appendix D is on file in the Borough offices.**
[2] **Editor's Note: Appendix D is on file in the Borough offices.**

the measured soil thickness multiplied by the thickness factor based on soil permeability (as measured by the adapted 25 Pa. Code §73.15 percolation test in Appendix G),[1] as follows:

Permeability Range* **(inches per hour)**	**Thickness Factor**
6.0 to 12.0	0.8
2.0 to 6.0	1.0
1.0 to 2.0	1.4
0.75 to 1.0	1.2
0.5 to 0.75	1.0

NOTES:

* If the permeability rate (as measured by the adapted 25 Pa. Code §73.15 percolation test in Appendix G) falls on a break between two thickness factors, the smaller thickness factor shall be used.

B. Sites with soil permeability greater than 12.0 inches per hour or less than 0.5 inch per hour, as measured by the adapted 25 Pa. Code §73.15 percolation test in Appendix G, are not recommended for infiltration.

4. The design of any detention basin intended to meet the requirements of this Part 1 shall be verified by routing the design storm hydrograph through the proposed basin using the storage indication method or other methodology demonstrated to be more appropriate. For basins designed using the Rational Method technique, the design hydrograph for routing shall be either the Universal Rational Hydrograph or the Modified Rational Method Trapezoidal Hydrograph which maximizes detention volume. Use of the Modified Rational Hydrograph shall be consistent with the procedure described in Section "PIPE.RAT" of the Users' Manual for the Penn State Urban Hydrology Model (1987).

5. BMPs designed to store or infiltrate runoff and discharge to surface runoff or pipe flow shall be routed using the storage indication method.

6. BMPs designed to store or infiltrate runoff and discharge to surface runoff or pipe flow shall provide storage volume for the full WQ_v below the lowest outlet invert.

7. Wet detention ponds designed to have a permanent pool for the WQ_v shall assume that the permanent pool volume below the primary outlet is full at the beginning of design event routing for the purposes of evaluating peak outflows.

[1] **Editor's Note: Appendix G is on file in the Borough offices.**

8. All stormwater detention facilities shall provide a minimum one-foot freeboard above the maximum pool elevation associated with the two- through twenty-five-year runoff events. A five-tenths-foot freeboard shall be provided above the maximum pool elevation of the one-hundred-year runoff event. The freeboard shall be measured from the maximum pool elevation to the invert of the emergency spillway. The two- through one-hundred-year storm events shall be controlled by the primary outlet structure. An emergency spillway for each basin shall be designed to pass the one-hundred-year return frequency storm peak basin inflow rate with a minimum five-tenths-foot freeboard measured to the top of basin. The freeboard criteria shall be met considering any off-site areas tributary to the basin as developed, as applicable. If this detention facility is considered to be a dam as per DEP Chapter 105, the design of the facility must be consistent with the Chapter 105 regulations and may be required to pass a storm greater than the one-hundred-year event.

9. The minimum circular orifice diameter for controlling discharge rates from detention facilities shall be three inches. Designs where a lesser size orifice would be required to fully meet release rates shall be acceptable with a three-inch orifice, provided that as much of the site runoff as practical is directed to the detention facilities. The minimum three-inch diameter does not apply to the control of the WQ_v.

10. Runoff calculations using the Soil Cover Complex Method shall use the Natural Resources Conservation Service Type II twenty-four-hour rainfall distribution. The twenty-four-hour rainfall depths for the various return periods to be used consistent with this Part 1 may be taken from NOAA Atlas 14, Volume 2, Version 2.1, 2004, or the PennDOT Intensity-Duration-Frequency Field Manual ("PDT-IDF") (May 1986) for Region 4. The following values are taken from the PDT-IDF Field Manual:

	24-Hour Rainfall Depth
Return Period	**(inches)**
1-year	2.40
2-year	3.00
5-year	3.60
10-year	4.56
25-year	5.52
50-year	6.48
100-year	7.44

11. A graphical and tabular presentation of the Type II twenty-four-hour distribution is included in Appendix A.[1]

[1] **Editor's Note: Appendix A is on file in the Borough offices.**

12. Runoff calculations using the Rational Method shall use rainfall intensities consistent with appropriate times of concentration and return periods and NOAA Atlas 14, Volume 2, Version 2.1, 2004, or the Intensity-Duration-Frequency Curves as presented in Appendix A.

13. Runoff Curve Numbers (CNs) to be used in the Soil Cover Complex Method shall be based upon the matrix presented in Appendix B.[1]

14. Runoff coefficients for use in the Rational Method shall be based upon the table presented in Appendix B.

15. All time-of-concentration calculations shall use a segmental approach which may include one or all of the flow types below:

    A. Sheet flow (overland flow) calculations shall use either the NRCS Average Velocity Chart (Figure 3-1, Technical Release-55, 1975) or the Modified Kinematic Wave Travel Time Equation (Equation 3-3, NRCS TR-55, June 1986). If using the Modified Kinematic Wave Travel Time Equation, the sheet flow length shall be limited to 50 feet for designs using the Rational Method and limited to 150 feet for designs using the Soil Cover Complex Method.

    B. Shallow concentrated flow travel times shall be determined from the watercourse slope, type of surface and the velocity from Figure 3-1 of TR-55, June 1986.

    C. Open channel flow travel times shall be determined from velocities calculated by the Manning Equation. Bank-full flows shall be used for determining velocities. Manning "n" values shall be based on the table presented in Appendix C.[2]

    D. Pipe flow travel times shall be determined from velocities calculated using the Manning Equation assuming full flow and the Manning "n" values from Appendix C.

16. If using the Rational Method, all predevelopment calculations for a given discharge direction shall be based on a common time of concentration considering both on-site and any off-site drainage areas. If using the Rational Method, all postdevelopment calculations for a given discharge direction shall be based on a common time of concentration considering both on-site and any off-site drainage areas.

17. The Manning Equation shall be used to calculate the capacity of watercourses. Manning "n" values used in the calculations shall be consistent with the table pre-

[1] **Editor's Note: Appendix B is on file in the Borough offices.**
[2] **Editor's Note: Appendix C is on file in the Borough offices.**

sented in Appendix C or other appropriate standard engineering "n" value resources. Pipe capacities shall be determined by methods acceptable to the municipality.

18. The Pennsylvania DEP Chapter 105 Rules and Regulations apply to the construction, modification, operation or maintenance of both existing and proposed dams, water obstructions and encroachments throughout the watershed. Criteria for design and construction of stormwater management facilities according to this Part 1 may differ from the criteria that are used in the permitting of dams under the Dam Safety Program.

(Ord. 610, 1/5/1998, §304; as amended by Ord. 709, 3/7/2005, §§VI-VIII; and by Ord. 729, 4/18/2007)

§125. Permit Requirements by Other Government Entities.

1. The following permit requirements apply to certain regulated and earth-disturbance activities and must be met prior to commencement of regulated and earth-disturbance activities, as applicable:

   A. All regulated and earth-disturbance activities subject to permit requirements by DEP under regulations at 25 Pa. Code Chapter 102.

   B. Work within natural drainageways subject to permit by DEP under 25 Pa. Code Chapter 102.

   C. Any stormwater management facility that would be located in or adjacent to surface waters of the commonwealth, including wetlands, subject to permit by DEP under 25 Pa. Code Chapter 105.

   D. Any stormwater management facility that would be located on a state highway right-of-way or require access from a state highway shall be subject to approval by the Pennsylvania Department of Transportation (PennDOT).

   E. Culverts, bridges, storm sewers, or any other facilities which must pass or convey flows from the tributary area and any facility which may constitute a dam subject to permit by DEP under 25 Pa. Code Chapter 105.

(Ord. 709, 3/7/2005, §IX)

§126. Erosion and Sediment Control During Regulated Earth-Disturbance Activities.

1. No regulated earth-disturbance activities within the municipality shall commence until approval by the municipality of an erosion and sediment control plan for

construction activities. Written approval by DEP or a delegated County Conservation District shall satisfy this requirement.

2. An erosion and sediment control plan is required by DEP regulations for any earth-disturbance activity of 5,000 square feet or more under Pa. Code § 102.4(b).

3. A DEP NPDES stormwater discharges associated with construction activities permit is required for regulated earth-disturbance activities under Pa. Code Chapter 92.

4. Evidence of any necessary permit(s) for regulated earth-disturbance activities from the appropriate DEP regional office or County Conservation District must be provided to the municipality before the commencement of an earth-disturbance activity.

5. A copy of the erosion and sediment control plan and any permit as required by DEP regulations shall be available at the project site at all times.

(Ord. 709, 3/7/2005, §X)

§127. Postconstruction Water Quality Criteria.

1. No regulated earth-disturbance activities within the Borough shall commence until approval by the Borough of a drainage plan which demonstrates compliance with this Part 1. This Part provides standards to meet NPDES permit requirements associated with construction activities and MS4 permit requirements.

2. The water quality volume (WQ_v) shall be captured and treated. The WQ_v shall be calculated two ways.

   A. First, WQ_v shall be calculated using the following formula:

$$WQv = \frac{(c)(P)(A)}{12}$$

   Where:

WQv	=	water quality volume in acre-feet.
c	=	Rational Method postdevelopment runoff coefficient for the two-year storm.
P	=	1.25 inches.
A	=	area in acres of proposed regulated activity.

   B. Second, the WQ_v shall be calculated as the difference in runoff volume from predevelopment to postdevelopment for the two-year return period storm.

The effect of closed depressions on the site shall be considered in this calculation. The larger of these two calculated volumes shall be used as the WQ_v to be captured and treated, except that in no case shall the WQ_v be permitted to exceed 1.25 inches of runoff over the site area. This standard does not limit the volume of infiltration an applicant may propose for purposes of water quantity/peak rate control.

3. The WQ_v shall be calculated for each postdevelopment drainage direction on a site for sizing BMPs. Site areas having no impervious cover and no proposed disturbance during development may be excluded from the WQ_v calculations and do not require treatment.

4. If an applicant is proposing to use a dry extended detention basin, wet pond, constructed wetland or other BMP that ponds water on the land surface and may receive direct sunlight, the discharge from that BMP must be treated by infiltration, a vegetated buffer, filter strip, bioretention, vegetated swale or other BMP that provides a thermal benefit to protect the high-quality waters of the commonwealth from thermal impacts.

5. The WQ_v for a site as a result of the regulated activities must either be treated with infiltration or two acceptable BMPs such as those listed in §127, Subsection 15, except for minor areas on the periphery of the site that cannot reasonably be drained to an infiltration facility or other BMP.

6. Infiltration BMPs shall not be constructed on fill unless the applicant demonstrates that the fill is stable and otherwise meets the infiltration BMP standards of this Part 1.

7. The applicant shall document the bedrock type(s) present on the site from published sources. Any apparent boundaries between carbonate and noncarbonate bedrock shall be verified through more-detailed site evaluations by a qualified geotechnical professional.

8. For each proposed regulated activity in the watershed where an applicant intends to use infiltration BMPs, the applicant shall conduct a preliminary site investigation, including gathering data from published sources, a field inspection of the site, a minimum of one test pit and a minimum of two percolation tests, as outlined in Appendix G.[1] This investigation will determine depth to bedrock, depth to the seasonal high-water table, soil permeability and location of special geologic features, if applicable. This investigation may be done by a certified sewage enforcement officer (SEO), except that the location(s) of special geologic features shall be verified by a qualified geotechnical professional.

9. Sites where applicants intend to use infiltration BMPs must meet the following criteria:

[1] **Editor's Note: Appendix G is on file in the Borough offices.**

A. Depth to bedrock below the invert of the BMP greater than or equal to two feet.

B. Depth to seasonal high-water table below the invert of the BMP greater than or equal to three feet; except for infiltration of residential roof runoff, where the seasonal high-water table must be below the invert of the BMP. (If the depth to bedrock is between two and three feet and the evidence of the seasonal high-water table is not found in the soil, no further testing to locate the depth to seasonal high-water table is required).

C. Soil permeability (as measured by the adapted 25 Pa. Code §73.15 percolation test in Appendix G) greater than or equal to 0.5 inch per hour and less than or equal to 12 inches per hour.

D. Setback distances or buffers as follows:

(1) One hundred feet from water supply wells.

(2) Fifteen feet downgradient or 100 feet upgradient from building foundations; except for residential development, where the required set back is 15 feet downgradient or 40 feet upgradient from building foundations.

(3) Fifty feet from septic system drainfields; except for residential development, where the required setback is 25 feet from septic system drainfields.

(4) Fifty feet from a geologic contact with carbonate bedrock unless a preliminary site investigation is done in the carbonate bedrock to show the absence of special geologic features within 50 feet of the proposed infiltration area.

(5) One hundred feet from the property line, unless documentation is provided to show that all setbacks from existing or potential future wells, foundations and drainfields on neighboring properties will be met; except for one- and two-family residential dwellings, where the required setback is 40 feet unless documentation is provided to show that all setbacks from existing or potential future wells, foundations and drainfields on neighboring properties will be met.

10. For entirely noncarbonate sites, the recharge volume (RE_v) shall be infiltrated unless the applicant demonstrates that it is infeasible to infiltrate the RE_v for reasons of seasonal high-water table, permeability rate, soil depth or setback distances, or except as provided in §127, Subsection 21.

A. The RE_v shall be calculated as follows:

$$RE_v = (0.25) * (I)/12$$

Where:

RE_v = Recharge volume in acre-feet.

I = impervious area in acres.

B. The preliminary site investigation described in §127, Subsection 8, is required and shall continue on different areas of the site until a potentially suitable infiltration location is found or the entire site is determined to be infeasible for infiltration. For infiltration areas that appear to be feasible based on the preliminary site investigation, the additional site investigation and testing as outlined in Appendix G shall be completed.

C. If an applicant proposes infiltration, the Borough may determine infiltration to be infeasible if there are known existing conditions or problems that may be worsened by the use of infiltration.

D. The site must meet the conditions listed in §127, Subsection 9.

E. If it is not feasible to infiltrate the full RE_v, the applicant shall infiltrate that portion of the RE_v that is feasible based on the site characteristics. If none of the RE_v can be infiltrated, RE_v shall be considered as part of the WQ_v and shall be captured and treated as described in §127, Subsection 15.

F. If RE_v is infiltrated, it may be subtracted from the WQ_v required to be captured and treated.

11. In entirely carbonate areas where the applicant intends to use infiltration BMPs, the preliminary site investigation described in §127, Subsection 8, shall be conducted. For infiltration areas that appear feasible based on the preliminary site investigation, the applicant shall conduct the additional site investigation and testing as outlined in Appendix G. The soil depth, percolation rate and proposed loading rate, each weighted as described in §124, along with the buffer from special geologic features, shall be compared to the Recommendation Chart for Infiltration Stormwater Management BMPs in Carbonate Bedrock in Appendix D[1] to determine if the site is recommended for infiltration. In addition to the recommendation from Appendix D, the conditions listed in §127, Subsection 9, are required for infiltration in carbonate areas. Applicants are encouraged to infiltrate the RE_v, as calculated in §127, Subsection 10, but are not required to use infiltration BMPs on a carbonate site even if the site falls in the "recommended" range on the chart in Appendix D. Any amount of volume infiltrated can be subtracted from the WQ_v to be treated by noninfiltration BMPs. If infiltration is not proposed, the full WQ_v shall be treated by two acceptable BMPs, as specified in §127, Subsection 15.

[1] **Editor's Note: Appendix D is on file in the Borough offices.**

12. If a site has both carbonate and noncarbonate areas, the applicant shall investigate the ability of the noncarbonate portion of the site to fully meet this Part 1 to meet the requirements for RE_v for the whole site through infiltration. If that proves infeasible, infiltration in the carbonate area as described in §127, Subsection 11, or two other noninfiltration BMPs as described in §127, Subsection 15, must be used. No infiltration structure in the noncarbonate area shall be located within 50 feet of a boundary with carbonate. bedrock, except when a preliminary site investigation has been done showing the absence of special geologic features within 50 feet of the proposed infiltration area.

13. If infiltration BMPs are proposed in carbonate areas, the postdevelopment two-year runoff volume leaving the site shall be 80% or more of the predevelopment runoff volume for the carbonate portion of the site to prevent infiltration of volumes far in excess of the predevelopment infiltration volume.

14. Site areas proposed for infiltration shall be protected from disturbance and compaction except as necessary for construction of infiltration BMPs.

15. If infiltration of the entire WQ_v is not proposed, the remainder of the WQ_v shall be treated by two acceptable BMPs in series for each discharge location. Sheet flow draining across a pervious area can be considered as one BMP. Sheet flow across impervious areas and concentrated flow shall flow through two BMPs. If sheet flow from an impervious area is to be drained across a pervious area as one BMP, the length of the pervious area must be equal to or greater than the length of impervious area. In no case may the same BMP be employed consecutively to meet the requirement of this section. Acceptable BMPs are listed below along with the recommended reference for design.

Best Management Practice	**Design Reference Number[C]**
Bioretention[A]	4, 5, 11, 16
Capture/reuse[B]	4, 14
Constructed wetlands	4, 5, 8, 10, 16
Dry extended detention ponds	4, 5, 8, 12, 18
Minimum disturbance/minimum maintenance practices	1, 9
Significant reduction of existing impervious cover	N/A
Stormwater filters[A] (sand, peat, compost, etc.)	4, 5, 10, 16
Vegetated buffers/filter strips	2, 3, 5, 11, 16, 17
Vegetated roofs	4, 13
Vegetated swales[A]	2, 3, 5, 11, 16, 17
Water quality inlets[D]	4, 7, 15, 16, 19
Wet detention ponds	4, 5, 6, 8

NOTES:

A This BMP could be designed with or without an infiltration component. If infiltration is proposed, the site and BMP will be subject to the testing and other infiltration requirements in this Part 1.

B If this BMP is used to treat the entire WQ_v, then it is the only BMP required because of this BMPs superior water quality performance.

C See table below.

D Water quality inlets include such BMPs as oil/water separators, sediment traps/catch basin sumps, and trash/debris collectors in catch basins.

Number	Design Reference Title
1	"Conservation Design For Stormwater Management – A Design Approach to Reduce Stormwater Impacts From Land Development and Achieve Multiple Objectives Related to Land Use," Delaware Department of Natural Resources and Environmental Control, The Environmental Management Center of the Brandywine Conservancy, September 1997.
2	"A Current Assessment of Urban Best Management Practices: Techniques for Reducing Nonpoint Source Pollution in the Coastal Zone," Schueler, T. R., Kumble, P. and Heraty, M., Metropolitan Washington Council of Governments, 1992.
3	"Design of Roadside Channels with Flexible Linings," Federal Highway Administration, Chen, Y. H. and Cotton, G. K, Hydraulic Engineering Circular 15, FHWA-IP-87-7, McLean Virginia, 1988.
4	"Draft Stormwater Best Management Practices Manual," Pennsylvania Department of Environmental Protection, January 2005.
5	"Evaluation and Management of Highway Runoff Water Quality," Federal Highway Administration, FHWA-PD-96-032, Washington, D.C., 1996.
6	"Evaporation Maps of the United States," U.S. Weather Bureau (now NOAA/National Weather Service), Technical Paper 37, Published by Department of Commerce, Washington D.C., 1959.
7	"Georgia Stormwater Manual," AMEC Earth and Environmental, Center for Watershed Protection, Debo and Associates, Jordan Jones and Goulding, Atlanta Regional Commission, Atlanta, Georgia, 2001.
8	"Hydraulic Design of Highway Culverts," Federal Highway Administration, FHWA HDS 5, Washington, D.C., 1985 (revised May 2005).
9	"Low Impact Development Design Strategies An Integrated Design Approach," Prince Georges County, Maryland Department of Environmental Resources, June 1999.

Number	Design Reference Title
10	"Maryland Stormwater Design Manual," Maryland Department of the Environment, Baltimore, Maryland, 2000.
11	"Pennsylvania Handbook of Best Management Practices for Developing Areas," Pennsylvania Department of Environmental Protection, 1998.
12	"Recommended Procedures for Act 167 Drainage Plan Design," LVPC, Revised 1997.
13	"Roof Gardens History, Design, and Construction," Osmundson, Theodore. New York W.W. Norton & Company, 1999.
14	"The Texas Manual on Rainwater Harvesting," Texas Water Development Board, Austin, Texas, Third Edition, 2005.
15	"VDOT Manual of Practice for Stormwater Management," Virginia Transportation Research Council, Charlottesville, Virginia, 2004.
16	"Virginia Stormwater Management Handbook," Virginia Department of Conservation and Recreation, Richmond, Virginia, 1999.
17	"Water Resources Engineering," Mays, L. W., John Wiley & Sons, Inc., 2005.
18	"Urban Hydrology for Small Watersheds," Technical Report 55, U.S. Department of Agriculture, Natural Resources Conservation Service, 1986.
19	U.S. EPA, Region 1 New England web site (as of August 2005) http://www.epa.gov/NE/assistance/ceitts/stormwater/techs/html.

16. Stormwater runoff from hot spot land uses shall be pretreated. In no case may the same BMP be employed consecutively to meet this requirement and the requirement in §127, Subsection 15. Acceptable methods of pretreatment are listed below.

Hot Spot Land Use	Pretreatment Method(s)
Vehicle maintenance and repair facilities, including auto parts stores	- Water quality inlets - Use of drip pans and/or dry sweep material under vehicles/equipment - Use of absorbent devices to reduce liquid releases - Spill prevention and response program
Vehicle fueling stations	- Water quality inlets - Spill prevention and response program

Hot Spot Land Use	Pretreatment Method(s)
Storage areas for public works	- Water quality inlets - Use of drip pans and/or dry sweep material under vehicles/equipment - Use of absorbent devices to reduce liquid releases - Spill prevention and response program - Diversion of stormwater away from potential contamination areas
Outdoor storage of liquids	- Spill prevention and response program
Commercial nursery operations	- Vegetated swales/filter strips - Constructed wetlands - Stormwater collection and reuse
Salvage yards and recycling facilities*	- BMPs that are a part of a stormwater pollution prevention plan under an NPDES permit
Fleet storage yards and vehicle cleaning facilities*	- BMPs that are a part of a stormwater pollution prevention plan under an NPDES permit
Facilities that store or generate regulated substances*	- BMPs that are a part of a stormwater pollution prevention plan under an NPDES permit
Marinas*	- BMPs that are a part of a stormwater pollution prevention plan under an NPDES permit
Certain industrial uses (listed under NPDES)*	- BMPs that area part of a stormwater pollution prevention plan under an NPDES permit

NOTES:

* Regulated under the NPDES Stormwater Program.

Design references for the pretreatment methods, as necessary, are listed below. If the applicant can demonstrate to the satisfaction of the municipality that the proposed land use is not a hot spot, then the pretreatment requirement would not apply.

Pretreatment Method	Design Reference[A]
Constructed wetlands	4, 5, 8, 10, 16
Diversion of stormwater away from potential contamination areas	4, 11
Stormwater collection and reuse (especially for irrigation)	4, 14

Pretreatment Method	Design Reference[A]
Stormwater filters (sand, peat, compost, etc.)	4, 5, 10, 16
Vegetated swales	2, 3, 5, 11, 16, 17
Water quality inlets	4, 7, 15, 16, 19

NOTES:

[A] These numbers refer to the Design Reference Title Chart in §127, Subsection 15 above.

17. The use of infiltration BMPs is prohibited on hot spot land use areas.

18. Stormwater infiltration BMPs shall not be placed in or on a special geologic feature(s). Additionally, stormwater runoff shall not be discharged into existing on-site sinkholes.

19. Applicants shall request, in writing, public water suppliers to provide the Zone I wellhead protection radius, as calculated by the method outlined in the Pennsylvania Department of Environmental Protection Wellhead Protection Regulations, for any public water supply well within 400 feet of the site. In addition to the setback distances specified in §127, Subsection 9, infiltration is prohibited in the Zone I radius as defined and substantiated by the public water supplier in writing. If the applicant does not receive a response from the public water supplier, the Zone I radius is assumed to be 100 feet.

20. The volume and rate of the net increase in stormwater runoff from the regulated activities must be managed to prevent the physical degradation of receiving waters from such effects as scour and stream bank destabilization, to satisfy state water quality requirements, by controlling the two-year postdevelopment runoff to a 30% release rate.

21. The Borough may, after consultation with DEP, approve alternative methods for meeting the state water quality requirements other than those in this Part 1, provided that they meet the minimum requirements of and do not conflict with state law, including but not limited to the Clean Streams Law.

(Ord. 709, 3/7/2005, §XI; as amended by Ord. 729, 4/18/2007)

D. Drainage Plan Requirements.

§131. General Requirements.

For any of the regulated activities of this Part 1, prior to the final approval of subdivision and/or land development plans, or the issuance of any permit, or the commence-

ment of any land-disturbance activity, the owner, subdivider, developer or his agent shall submit a drainage plan for approval.

(Ord. 610, 1/5/1998, §401)

§132. Exemptions.

Exemptions from the drainage plan requirements are as specified in §106.

(Ord. 610, 1/5/1998, §402; as amended by Ord. 729, 4/18/2007)

§133. Drainage Plan Contents.

The following items shall be included in the drainage plan:

A. General:

(1) General description of project.

(2) General description of proposed permanent stormwater controls.

B. Maps(s) of the project area, showing:

(1) The location of the project relative to highways, municipalities or other identifiable landmarks.

(2) Existing contours at intervals of two feet. In areas of steep slopes (greater than 15%), five-foot contour intervals may be used.

(3) Off-site drainage areas impacting the project, including topographic detail.

(4) Streams, lakes, ponds or other bodies of water within the project area.

(5) Other physical features, including existing drainage swales, wetlands, dosed depressions, sinkholes and areas of natural vegetation to be preserved.

(6) Locations of proposed underground utilities, sewers and water lines.

(7) An overlay showing soil types and boundaries based on the Lehigh or Northampton County Soil Survey, latest edition, as applicable.

(8) Proposed changes to land surface and vegetative cover.

(9) Proposed structures, roads, paved areas and buildings.

(10) Final contours at intervals of two feet. In areas of steep slopes (greater than 15%), five-foot contour intervals may be used.

(11) Stormwater management district boundaries applicable to the site.

(12) An overlay showing geologic types and boundaries

(13) Clear identification of the location and nature of permanent stormwater BMPs.

(14) An adequate access easement around all stormwater BMPs that would provide municipal ingress to and egress from a public right-of-way.

(15) A schematic showing all tributaries contributing flow to the site and all existing man-made features beyond the property boundary that would be affected by the project.

(16) The location of all public water supply wells within 400 feet of the project and all private water supply wells within 100 feet of the project.

C. Stormwater Management Controls.

(1) All stormwater management controls must be shown on a map and described, including:

(a) Groundwater recharge methods such as seepage pits, beds or trenches. When these structures are used, the locations of septic tank infiltration areas and wells must be shown.

(b) Other control devices or methods, such as rooftop storage, semipervious paving materials, grass swales, parking lot pending, vegetated strips, detention or retention ponds, storm sewers, etc.

(2) All calculations, assumptions and criteria used in the design of the control device or method must be shown.

D. Maintenance Program. A maintenance program for all stormwater management control facilities must be included. This program must include the proposed ownership of the control facilities, the maintenance requirements for the facilities and the financial responsibilities for the required maintenance.

E. Environmental Resources Site Design Assessment.

(1) An environmental resources site design assessment that describes the following:

(a) The extent to which the proposed grading and impervious cover avoid disturbance of significant environmental resources and preserve existing site hydrology.

(b) An assessment of whether alternative grading and impervious cover site design could lessen the disturbance of significant environmental resources and/or make better use of the site hydrologic resources.

(c) A description of how the proposed stormwater management controls and BMPs serve to mitigate any adverse impacts on environmental resources on the site.

(2) Significant environmental resources considered in the site design assessment include but are not limited to steep slopes, ponds, lakes, streams, wetlands, hydric soils, floodplains, riparian vegetation, native vegetation, and special geologic features.

(Ord. 610, 1/5/1998, §403; as amended by Ord. 709, 3/7/2005, §XII; and by Ord. 729, 4/18/2007)

§134. Plan Submission.

1. For regulated activities specified in §104, Subsection 2A and B:

A. The drainage plan shall be submitted by the developer to the Borough Secretary (or other appropriate person) as part of the preliminary plan submission for the subdivision or land development.

B. Four copies of the drainage plan shall be submitted.

C. Distribution of the drainage plan will be in accordance with the requirements of the Borough Subdivision and Land Development Ordinance [Chapter 22].

D. Drainage plans involving more than 10,000 square feet of additional impervious cover shall be submitted by the developer to the Lehigh Valley Planning Commission as part of the preliminary plan submission. The Lehigh Valley Planning Commission will conduct an advisory review of the drainage plan for consistency with the stormwater management plan. The Lehigh Valley Planning Commission will not review details of the erosion and sedimentation plan or the BMP operations and maintenance plan.

(1) Two copies of the drainage plan shall be submitted.

(2) The Lehigh Valley Planning Commission will provide written comments to the developer and the Borough, within a time frame consistent with established procedures under the Municipalities Planning Code, as to whether the drainage plan has been found to be consistent with the stormwater management plan.

2. For regulated activities specified in §104, Subsection 2C and D, the drainage plan shall be submitted by the developer to the Borough Building Permit Officer as part of the building permit application.

3. For regulated activities specified in §104, Subsection 2E, F and G:

   A. The drainage plan shall be submitted by the developer to the Lehigh Valley Planning Commission for coordination with the DEP permit application process under Chapter 105 (Dam Safety and Waterway Management) and Chapter 106 (Flood Plain Management) of DEP's Rules and Regulations of the NPDES regulations.

   B. One copy of the drainage plan shall be submitted.

4. Earthmoving for all regulated activities under §104 shall be conducted in accordance with the current federal and state regulations relative to the NPDES and DEP Chapter 102 regulations.

(Ord. 619, 1/5/1998, §404; as amended by Ord. 709, 3/7/2005, §XIII; and by Ord. 729, 4/18/2007)

§135. Drainage Plan Review.

1. The Borough Engineer shall review the drainage plan, including the BMP operations and maintenance plan, for consistency with the adopted Act 167 stormwater management plan as embodied by this Part and with any permits issued by DEP and against any additional storm drainage provisions contained in the Borough Subdivision and Land Development Ordinance [Chapter 22] or Zoning Ordinance [Chapter 27], as applicable.

2. The Borough shall notify the applicant, in writing, whether the drainage plan, including the BMP operations and maintenance plan, is approved.

3. The Borough shall not approve any subdivision or land development (regulated activities in §104, Subsection 2A and B) or building permit application (regulated activities §104, Subsection 2C and D) if the drainage plan has been found to be inconsistent with the stormwater management plan, as determined by the Borough Engineer.

4. The Borough may require an as-built survey of all stormwater BMPs and an explanation of any discrepancies with the drainage plan.

(Ord. 610, 1/5/1998, §405; as amended by Ord. 729, 4/18/2007)

§136. Modification of Plans.

A modification to a submitted drainage plan for a proposed development site which involves a change in control methods or techniques, or which involves the relocation or redesign of control measures, or which is necessary because soil or other conditions are not as stated on the drainage plan (as determined by the Borough Engineer) shall require a resubmission of the modified drainage plan consistent with §134, subject to review per §135 of this Part 1.

(Ord. 610, 1/5/1998, §406)

§137. Hardship Waiver Procedure.

The Borough Council may hear requests for waivers where it is alleged that the provisions of this (Act 167) Part 1 inflicts unnecessary hardship upon the applicant. The waiver request shall be in writing and accompanied by the requisite fee, based upon a fee schedule adopted by the Borough. A copy of the waiver request shall be provided to each of the following: the Borough, Borough Engineer, Borough Solicitor and Joint Planning Commission. The request shall fully document the nature of the alleged hardship.

A. The Borough may grant a waiver provided that all of the following findings are made in a given case:

(1) That there are unique physical circumstances or conditions, including irregularity of lot size or shape, or exceptional topographical or other physical conditions peculiar to the particular property and that the unnecessary hardship is due to such conditions and not the circumstances or conditions generally created by the provisions of this Part 1 in the stormwater management district in which the property is located.

(2) That, because of such physical circumstances or conditions, there is no possibility that the property can be developed in strict conformity with the provisions of this Part 1, including the no-harm provision, and that the authorization of a waiver is therefore necessary to enable the reasonable use of the property.

(3) That such unnecessary hardship has not been created by the applicant.

(4) That the waiver, if authorized, will represent the minimum waiver that will afford relief and will represent the least modification possible of the regulation in issue.

(5) That financial hardship is not the criteria for granting of a hardship waiver.

B. In granting any waiver, the Borough may attach such conditions and safeguards as it may deem necessary to implement the purposes of this Part 1. If a hardship waiver is granted, the applicant must still manage the quantity, velocity, direction, and quality of resulting storm runoff as is necessary to prevent injury to health, safety, and other property.

(1) For all regulated activities described in §104, Subsection 2, the Borough Council shall hear requests for and decide upon hardship waiver requests.

(2) The Borough shall not waive the water quality provisions of this Part 1.

(Ord. 610, 1/5/1998, §407; as amended by Ord. 709, 3/7/2005, §§XIV, XV; and by Ord. 729, 4/18/2007)

E. Inspections.

§141. Schedule of Inspections.

1. The Department of Environmental Protection or its designees (e.g., County Conservation District) normally ensure compliance with any permits issued, including those for stormwater management. In addition to DEP compliance programs, the Borough or its designee may inspect all phases of the construction, operations, maintenance, and any other implementation of stormwater BMPs.

2. During any stage of the regulated earth-disturbance activities, if the Borough or its designee determines that any BMPs are not being implemented in accordance with this Part 1, the Borough may suspend or revoke any existing permits issued by the Borough or other approvals issued by the Borough until the deficiencies are corrected.

(Ord. 610, 1/5/1998, §501; as amended by Ord. 729, 4/18/2007)

F. Fees and Expenses.

§151. General.

By resolution of Borough Council, a fee shall be established to defer Borough costs for drainage plan review and processing.

(Ord. 610, 1/5/1998, §601)

§152. Expenses Covered by Fees.

The fees required by this Part 1 shall, at a minimum, cover:

A. The review of the drainage plan by the Borough Engineer.

B. The site inspection.

C. The inspection of required controls and improvements during construction.

D. The final inspection upon completion of the controls and improvements required in the plan.

E. Any additional work required to enforce any permit provisions, regulated by this Part 1, correct violations and assure the completion of stipulated remedial actions.

F. Administrative and clerical costs.

(Ord. 601, 1/5/1998, §602)

G. Maintenance Responsibilities.

§161. General Requirements.

No regulated earth-disturbance activities within the municipality shall commence until approval by the municipality of the BMP operations and maintenance plan which describes how the permanent (e.g., postconstruction) stormwater BMPs will be properly operated and maintained.

(Ord. 610, 1/5/1998, §701; as amended by Ord. 709, 3/7/2005, §XVI)

§162. Responsibilities for Operations and Maintenance of BMPs.

1. The BMP operations and maintenance plan for the project site shall establish responsibilities for the continuing operation and maintenance of all permanent stormwater BMPs, as follows:

   A. If a plan includes structures or lots which are to be separately owned and in which streets, sewers and other public improvements are to be dedicated to the municipality, stormwater BMPs may also be dedicated to and maintained by the municipality;

   B. If a plan includes operations and maintenance by a single ownership or if sewers and other public improvements are to be privately owned and maintained, then the operation and maintenance of stormwater BMPs shall be the responsibility of the owner or private management entity.

2. The municipality shall make the final determination on the continuing operations and maintenance responsibilities. The municipality reserves the right to accept or reject the operations and maintenance responsibility for any or all of the stormwater BMPs.

(Ord. 709, 3/7/2005, §XVII)

§163. Adherence to Approved BMP Operations and Maintenance Plan.

It shall be unlawful to alter or remove any permanent stormwater BMP required by an approved BMP operations and maintenance plan or to allow the property to remain in a condition which does not conform to an approved BMP operations and maintenance plan unless an exception is granted in writing by the municipality.

(Ord. 709, 3/7/2005, §XVIII)

§164. Operations and Maintenance Agreement for Privately Owned Stormwater BMPs.

1. The property owner shall sign an operations and maintenance agreement with the municipality covering all stormwater BMPs that are to be privately owned. The agreement shall include the terms of the format agreement referenced in Appendix E of this Part 1.[1]

2. Other items may be included in the agreement where determined by the municipality to be reasonable or necessary to guarantee the satisfactory operation and maintenance of all permanent stormwater BMPs. The agreement shall be subject to the review and approval of the municipality.

[1] **Editor's Note: Appendix E is on file in the Borough offices.**

(Ord. 709, 3/7/2005, §XIX)

§165. Stormwater Management Easements.

Stormwater management easements shall be provided by the property owner if necessary for access for inspections and maintenance or for preservation of stormwater conveyance, infiltration, detention areas and other BMPs by persons other than the property owner. The purpose of the easement shall be specified in any agreement.

(Ord. 709, 3/7/2005, §XX)

§166. Recording of Approved BMP Operations and Maintenance Plan and Related Agreements.

1. The owner of any land upon which permanent BMPs will be placed, constructed or implemented, as described in the BMP operations and maintenance plan, shall record the following documents in the Office of the Recorder of Deeds for Lehigh County, as applicable, within 90 days of approval of the BMP operations plan by the municipality:

    A. The operations and maintenance plan or a summary thereof.

    B. Operations and maintenance agreements.

    C. Easements.

2. The municipality may suspend or revoke any approvals granted for the project site upon discovery of the failure of the owner to comply with this section.

(Ord. 709, 3/7/2005, §XXI)

§167. Municipal Stormwater BMP Operation and Maintenance Fund.

1. If stormwater BMPs are accepted by the municipality for dedication, the municipality shall require persons installing stormwater BMPs to pay a specified amount to the Municipal Stormwater BMP Operation and Maintenance Fund to help defray costs of operations and maintenance activities. The amount may be determined as follows:

    A. If the BMP is to be owned and maintained by the municipality, the amount shall cover the estimated costs for operation and maintenance in perpetuity, as determined by the municipality.

B. The amount shall then be converted to present worth of the annual series values.

2. If a BMP is proposed that also serves as a recreation facility (e.g., ballfield, lake), the municipality may adjust the amount due accordingly.

(Ord. 709, 3/7/2005, §XXII)

H. Enforcement.

§171. Right of Entry.

1. Upon presentation of proper credentials and with the consent of the landowner, duly authorized representatives of the Borough may enter at reasonable times upon any property within the Borough to inspect the implementation, condition or operation and maintenance of the stormwater BMPs or to investigate or ascertain the condition of the subject property in regard to any aspect regulated by this Part 1.

2. In the event that the landowner refuses admission to the property, duly authorized representatives of the Borough may seek an administrative search warrant issued by a District Justice to gain access to the property.

(Ord. 709, 3/7/2005, §XXIV; as amended by Ord. 729, 4/18/2007)

§172. Notification.

1. Whenever the municipality finds that a person has violated a prohibition or failed to meet a requirement of this Part 1, the municipality may order compliance by written notice to the responsible person. Such notice may require, without limitation:

A. The performance of monitoring, analyses and reporting.

B. The elimination of prohibited connections or discharges.

C. Cessation of any violating discharges, practices or operations.

D. The abatement or remediation of stormwater pollution or contamination hazards and the restoration of any affected property.

E. Payment of a fine to cover administrative and remediation costs.

F. The implementation of stormwater BMPs.

G. Operation and maintenance of stormwater BMPs.

2. Such notification shall set forth the nature of the violation(s) and establish a time limit for correction of the violation(s). Said notice may further advise that, should the violator fail to take the required action within the established deadline, the work will be done by the municipality or designee, and the expense thereof, together with all related lien and enforcement fees, charges and expenses, shall be charged to the violator.

3. Failure to comply within the time specified shall also subject such person to the penalty provisions of this Part 1. All such penalties shall be deemed cumulative and shall not prevent the municipality from pursuing any and all other remedies available in law or equity.

(Ord. 709, 3/7/2005, §XXIV)

§173. Public Nuisance.

1. The violation of any provision of this Part 1 is hereby deemed a public nuisance.

2. Each day that an offense continues shall constitute a separate violation.

(Ord. 709, 3/7/2005, §XXV)

§174. Suspension and Revocation of Permits and Approvals.

1. Any building, land development or other permit or approval issued by the municipality may be suspended or revoked by the municipality for:

   A. Noncompliance with or failure to implement any provision of the permit.

   B. A violation of any provision of this Part 1.

   C. The creation of any condition or the commission of any act during construction or development which constitutes or creates a hazard or nuisance, pollution or which endangers the life or property of others.

2. A suspended permit or approval shall be reinstated by the municipality when:

   A. The municipality or designee has inspected and approved the corrections to the stormwater BMPs or the elimination of the hazard or nuisance.

   B. The municipality is satisfied that the violation of the ordinance, law or rule and regulation has been corrected.

   C. Payment of all municipal fees, costs and expenses related to or arising from the violation has been made.

3. A permit or approval which has been revoked by the municipality cannot be reinstated. The applicant may apply for a new permit under the procedures outlined in this Part.

(Ord. 709, 3/7/2005, §XXVI)

§175. Penalties.

1. Any person, partnership, or corporation who or which has violated the provisions of this Part 1 shall, upon being found liable therefor in a civil enforcement proceeding commenced by the Borough, pay a judgment of not more than $500 plus all court costs, including reasonable attorney's fees incurred by the Borough as a result thereof. No judgment shall commence or be imposed, levied, or payable until the date of the determination of a violation by the District Justice. If the defendant neither pays nor timely appeals the judgment, the Borough may enforce the judgment pursuant to a separate violation, unless the District Justice, determining that there has been a violation, further determines that there was a good-faith basis for the person, partnership, or corporation violating this Part 1 to have believed that there was no such violation, in which event there shall be deemed to have been only one such violation until the fifth day following the date of the determination of a violation by the District Justice, and thereafter each day that a violation continues shall constitute a separate violation.

2. The court of common pleas, upon petition, may grant an order of stay upon cause shown, tolling the per-diem judgment pending a final adjudication of the violation and judgment.

3. Nothing contained in this Part 1 shall be construed or interpreted to grant to any person or entity other than the Borough the right to commence any action for enforcement pursuant to this Part 1.

4. District justices shall have initial jurisdiction in proceedings brought under this Part 1.

5. In addition, the Borough, through its Solicitor, may institute injunctive, mandamus or any other appropriate action or proceeding at law or in equity for the enforcement of this Part 1. Any court of competent jurisdiction shall have the right to issue restraining orders, temporary or permanent injunctions, mandamus or other appropriate forms of remedy or relief.

(Ord. 709, 3/7/2005, §XXVII; as amended by Ord. 729, 4/18/2007)

§176. Appeals.

Any person aggrieved by any action of the municipality or its designee relevant to the provisions of this Part 1 may appeal using the appeal procedures established in the Pennsylvania Municipalities Planning Code.[1]

(Ord. 709, 3/7/2005, §XXVIII)

I. Prohibitions.

§181. Prohibited Discharges.

1. No person in the municipality shall allow or cause to allow stormwater discharges into the municipality's separate storm sewer system which are not composed entirely of stormwater, except as provided in Subsection 2 below or as allowed under a state or federal permit.

2. Discharges that may be allowed based on the municipality finding that the discharge(s) do not significantly contribute pollution to surface waters of the commonwealth are listed below.

   A. Discharges from fire-fighting activities.

   B. Potable water sources, including dechlorinated water line and fire hydrant flushings.

   C. Irrigation drainage.

   D. Routine external building washdown which does not use detergents or other compounds.

   E. Air-conditioning condensate.

   F. Water from individual residential car washing.

   G. Springs.

   H. Water from crawl space pumps.

   I. Uncontaminated water from foundation or footing drains.

   J. Flows from riparian habitats and wetlands.

   K. Lawn watering.

[1] **Editor's Note: See 53 P.S. §10101 et seq.**

L. Pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spill material has been removed) and where detergents are not used.

M. Dechlorinated swimming pool discharges.

N. Uncontaminated groundwater.

3. In the event that the municipality determines that any of the discharges identified in Subsection 2 significantly contribute to pollution of waters of the commonwealth or is so notified by DEP, the municipality will notify the responsible person to cease the discharge.

4. Upon notice provided by the municipality under §172, the discharger will have a reasonable time, as determined by the municipality, to cease the discharge consistent with the degree of pollution caused by the discharge.

5. Nothing in this section shall affect a discharger's responsibilities under state law.

(Ord. 709, 3/7/2005, §XXIX)

§182. Prohibited Connections.

The following connections are prohibited, except as provided in §181, Subsection 2, above:

A. Any drain or conveyance, whether on the surface or subsurface, which allows any nonstormwater discharge, including sewage, process wastewater and washwater, to enter the separate storm sewer system and any connections to the storm drain system from indoor drains and sinks.

B. Any drain or conveyance connected from a commercial or industrial land use to the separate storm sewer system which has not been documented in plans, maps or equivalent records and approved by the municipality.

(Ord. 709, 3/7/2005, §XXIX)

§183. Roof Drains.

1. Roof drains shall not be connected to streets, sanitary or storm sewers or roadside ditches, except as provided in §181, Subsection 2.

2. When it is more advantageous to connect directly to streets or storm sewers, connections of roof drains to streets or roadside ditches may be permitted by the municipality.

3. Roof drains shall discharge to infiltration areas or vegetative BMPs to the maximum extent practicable.

(Ord. 709, 3/7/2005, §XXIX)

§184. Alteration of BMPs.

1. No person shall modify, remove, fill, landscape or alter any existing stormwater BMP without the written approval of the municipality unless it is part of an approved maintenance program.

2. No person shall place any structure, fill, landscaping or vegetation into a stormwater BMP or within a drainage easement, which would limit or alter the functioning of the BMP, without the written approval of the municipality.

(Ord. 709, 3/7/2005, §XXIX)

POST-CONSTRUCTION BMP INSPECTION PROGRAM

BOROUGH OF FOUNTAIN HILL, LEHIGH COUNTY
June 2018, Last Updated April 2020

All development projects with stormwater BMPs constructed since 2005 have Operation and Maintenance Agreements executed by both the Borough and the owners of the BMPs. Inspections are to be performed by the owners of the BMPs. Inspection reports will be required to be submitted by the owners of the BMPs on an annual basis. This inspection program is currently being established by the Borough and the program will be implemented for the 2018-2023 permit term. The BMP owners will be given a designated time period to take corrective actions, if the inspection identifies deficiencies. After proper notifications, BMP owners who are unresponsive to needed corrections shall be referred to the Borough Solicitor for guidance in enforcement actions. The types of enforcement actions may vary dependent upon the Solicitor's guidance. All records collected during the inspection process shall be reported to DEP through each annual Progress Report. The Borough will also develop a list and map of all stormwater structures constructed throughout the Borough.

An inspection checklist has been developed that will be sent to each BMP owner. This checklist will be sent to BMP owners shortly after June 1st of every year (either by mail or electronically), and it will be requested to return the checklist by no later than June 14th of every year.

S:\Projects\Municipal_MS4\Fountain Hill Borough\2018-2023 Permit Term\Annual Progress Report - Year 3\MCM Info - Annual Progress Report - Year 3\MCM#5 - PCSM\PCSM BMP Inspection Program -FINAL LAST REV 04.28.2020.docx

INSERT BOTTOM DOLLAR PCSM BMP CHECKLIST

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 INSPECTION REPORT

Permit Number	Inspection Date	Entry Time	Exit Time	Inspection Type	Inspection ID
PAG132250	06/23/2021	10:15	13:47	CEI	3209563

Municipality	Fountain Hill	**County**	Lehigh
Facility Name	FOUNTAIN HILL BOROUGH STORMWATER	**Permittee Name**	FOUNTAIN HILL BORO MUNI AUTH LEHIGH CNTY
24-Hour Emergency Contact Person/Phone	Anthony Branco /	**Email**	----
Physical Location Address	941 LONG STREET, FOUNTAIN HILL, PA, 18015		
Permit Expiration Date	03/15/2018	**Next Submittal Annual Report Due Date**	09/30/2021

Violations*

No Violations Noted

Person Interviewed Anthony Branco	**Date** 06/23/2021	**Inspector** CHRISTIAN HARDING	**Date** 06/23/2021
Signature **None due to COVID Restrictions**	**Phone Number** (610) 867-0307	**Signature** 	**Phone Number** (610) 861-2153
Title Executive Administrator		**Title** WTR QLTY SPCST	
Email abranco@fhboro.org		**Email** chrharding@pa.gov	

This document is official notification that a representative of the Department of Environmental Protection inspected the above facility. The findings of this inspection are shown above and on any attached pages. *Any violations which were noted during the inspection are indicated. Violations may also be discovered upon examination of the results of laboratory analyses of the discharge and/or review of Department records.

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

MS4 INSPECTION REPORT

Facility Details Section			
Responsible Official	ANTHONY BRANCO	**Title**	EXEC ADMINISTRATOR
Business Phone	(610) 867-0301	**Email**	abranco@fhboro.org
Permittee Address	941 LONG STREET, FOUNTAIN HILL, PA, 18015		

Certified Operator	----			**Client ID**	----
Certificates	----	**Certification Status**	----	**Expiration Date**	--/--/----

Is a Copy of the permit(s) on-site?	Yes
Has the interviewed operator/person reviewed the facility's permit(s)?	Yes

Comments

I met with Anthony Branco (Executive Administrator) and Pam Kemecsy (Consultant/Engineer) to conduct a Compliance Evaluation Inspection of the Fountain Hill Borough MS4 program.

-Stormwater fees are required by Fountain Hill Borough for all businesses, non-profits, and residents in the Borough. Stormwater credits are also implemented for BMPs.

-Outfall/inlet 056 was viewed during the inspection; it was in good condition and was free of excessive debris/vegetation.

-Outfall/inlet 057 was viewed during the inspection; it was in good condition and was free of excessive debris/vegetation.

The stormwater basin located on the upslope portion of the St. Luke's University Hospital property was during the inspection; the basin was in good condition.

Participants:
Anthony Branco (Executive Administrator), Pamela Kemecsy (Consultant/Engineer)

01 Annual Status Report: 040 - LEHIGH RIVER OUTFALL

Annual Status Report

ASR-1	Has the Permittee submitted their most recent Annual Status Report in compliance with their permit	Yes	
ASR-2	Date the most recent Annual Status Report was received **Notes:** Submitted via OnBase.	09/30/2020	
ASR-3	Did the most recent Annual Status Report contain any administrative deficiencies identified by the reviewer	Not Observed	
ASR-4	Have there been steps taken to address any deficiencies within the Annual Status Report by the Permittee	Not Observed	
ASR-5	Describe how any deficiencies identified in the Annual Status Report have been addressed by the Permittee **Notes:** N/O. There is no documentation in the system showing that the in 2020/2021 annual status report has been reviewed by department staff as of yet.	See Note.	
ASR-6	Is the Annual Status Report made available for public review by the Permittee	Yes	

02 PRP & TMDL Plan: 040 - LEHIGH RIVER OUTFALL

PRP & TMDL Plan

PRP-1	Is the Permittee required to have a Pollution Reduction Plan (PRP)	Yes	
PRP-2	Is the PRP available for review	Yes	
PRP-3	Has the PRP been updated since permit issuance **Notes:** Last updated 6/20/2018.	Yes	
PRP-4	Has the updated PRP been made available for public comment; including documentation of published notice, writtens comments received, and record of consideration	Yes	
PRP-5	Describe steps taken by Permittee to implement PRP **Notes:** -In year 2 of Permit 21 inlet filter installed. -in year 3 of Permit 21 inlet filters installed -in year 3 of permit mapping was completed. -Warren St basin rehab project is ongoing.	See note	
PRP-6	Is the Permittee required to have a Total Maximum Daily Load (TMDL) Plan	No	

03 MCM 1 (PEOP): 040 - LEHIGH RIVER OUTFALL

MCM 1

MCM1-1	Has the permittee developed and implemented a written Public Education and Outreach Program (PEOP)	Yes	
MCM1-2	Is the PEOP reviewed, evaluated, and revised annually **Notes:** Reviewed annually, revised as needed.	Yes	
MCM1-3	Date of last PEOP review or update	Sep2019	
MCM1-4	Has the permittee developed a list of target audiences that are present within the areas served by the MS4	Yes	
MCM1-5	Does the list include residents, businesses, developers, schools, and municipal employees	Yes	
MCM1-6	Is the list reviewed and updated annually	Yes	

	Notes: Reviewed annually, revised as needed.		
MCM1-7	**Date of last review or update of the list of target audiences**	**Sep2019**	
MCM1-8	**Has the permittee annually published at least one issue of a newsletter, a pamphlet, a flyer, or a website**	**Yes**	
MCM1-9	**Does the publication include general stormwater information**	**Yes**	
MCM1-10	**Does the publication include a description of permittee's SWMP**	**Yes**	
MCM1-11	**Does the publication include information about permittee's stormwater management activities**	**Yes**	
MCM1-12	**Has the permittee additionally implemented an alternative publication** **Notes:** Stormwater related information is displayed on a constant loop on the lobby tv screen.	**Yes**	
MCM1-13	**Is the list of published material made available to the public**	**Yes**	
MCM1-14	**Is the list of published material reviewed, updated, and maintained annually** **Notes:** Reviewed annually, revised as needed.	**Yes**	
MCM1-15	**Date of last review or update for the list of published material**	**Sep2019**	
MCM1-16	**Do all publications contain stormwater educational information that address at least 1 MCM**	**Yes**	
MCM1-17	**Has the permittee distributed stormwater educational materials and/or information to the target audiences using a variety of distribution methods**	**Yes**	
MCM1-18	**Has the permittee selected and utilized at least two distribution methods annually, in addition to those required by BMP #3**	**Yes**	
MCM1-19	**Describe additional distribution methods** **Notes:** -Constant loop screen in lobby. -Hardcopy pamphlets in lobby.	**See note**	
MCM1-20	**Does the PEOP demonstrate measurable improvements in target audience's understanding of stormwater impacts**	**Yes.**	

04 MCM 2 (PIPP): 040 - LEHIGH RIVER OUTFALL

MCM 2

MCM2-1	**Has the permittee developed and implemented a written Public Involvement and Participation Program (PIPP), which describes various types of possible participation activities and describes methods of encouraging the public's involvement and of soliciting the public's input**	**Yes**	
MCM2-2	**Is the PIPP evaluated and revised annually** **Notes:** Reviewed annually, revised as needed.	**Yes**	
MCM2-3	**Date the PIPP was last evaluated and revised**	**Sep2020**	
MCM2-4	**Does the PIPP include opportunities for public participation** **Notes:** -Clean up days. -Inlet stenciling. -rain-barrel workshops.	**Yes**	
MCM2-5	**Does the PIPP include methods of routine conversation with shareholders** **Notes:** -Social media. -Print and authority meetings. -Authority meetings are currently live-streamed and open to the public.	**Yes**	
MCM2-6	**Has the permittee made MS4 program materials available to public or upon request**	**Yes**	
MCM2-7	**Has the permittee advertised to the public and solicited public input on ordinances, SOPs, and PRP prior to adoption or submission to DEP**	**Yes**	
MCM2-8	**For Ordinances and SOPs, has the permittee provided notice to the public, opportunities for public comment, documented and evaluated the public comments, and documented the**	**Yes**	

	permittee responses to comments prior to finalizing the documents		
MCM2-9	For PRPs, has the permittee complied with public participation requirements specified in Appendices D and E of the permit	Yes	
MCM2-10	Does the permittee regularly solicit public involvement and participation from target audience groups using available distribution and outreach methods	Yes	
MCM2-11	Does the permittee solicit public reporting of illicit discharges **Notes:** -There are office complaint forms. -Borough officials can be directly notified.	Yes	
MCM2-12	Does the permittee assist the public in their efforts to help implement SWMP	Yes	
MCM2-13	Has the permittee documented and reported instances of cooperation and participation of local organizations or members of the public	Yes	

05 MCM 3 (IDD&E): 040 - LEHIGH RIVER OUTFALL

MCM 3

MCM3-1	Has the permittee developed and implemented a written Illicit Discharge Detection and Elimination (IDD&E) program	Yes	
MCM3-2	Does the IDD&E program include procedures for identifying priority areas	Yes	
MCM3-3	Does the IDD&E program include procedures for screening outfalls in priority areas	Yes	
MCM3-4	Does the IDD&E program include procedures for identifying the source of an illicit discharge when a contaminated flow is detected	Yes	
MCM3-5	Does the IDD&E program include procedures for eliminating an illicit discharge	Yes	
MCM3-6	Does the IDD&E program include procedures for assessing the potential for illicit discharges caused by the interaction of sewage disposal systems (e.g., on-lot septic systems, sanitary piping) with storm drain systems **Notes:** All sewer and laterals in the Borough are being be televised for condition and functionality.	Yes	
MCM3-7	Does the IDD&E program include mechanisms for gaining access to private property to inspect outfalls **Notes:** No outfalls exist on private property, but the Borough has means of access if need be.	Not Applicable	
MCM3-8	Does the IDD&E program include procedures for program documentation, evaluation and assessment	Yes	
MCM3-9	Does the IDD&E program include procedures for addressing information or complaints received from the public	Yes	
MCM3-10	Has the IDD&E program continued to be implemented and evaluated annually	Yes	
MCM3-11	Date the IDD&E was last evaluated	Sep2020	
MCM3-12	Has the permittee developed and maintained maps that include permittee and urbanized area boundaries, location and number of all outfalls, location and names of all receiving surface waters**	Yes	
MCM3-13	Have the IDD&E program map(s) been updated and maintained annually	Yes	
MCM3-14	Date the last time IDD&E program map(s) were updated	2020	
MCM3-15	Has the permittee developed and maintained map(s) that show the entire storm sewer collection system within the permittee's jurisdiction that are owned or operated by the permittee**	Yes	
MCM3-16	Do the maps include components of the storm sewer collection system including but not limited to roads, inlets, piping, swales, catch basins, channels	Yes	
MCM3-17	Do the maps include privately-owned components of the collection system where conveyances or best management practices (BMPs) on private property receive stormwater flows from upstream publicly-owned components	Yes	

	upstream publicly owned components		
MCM3-18	Have the storm sewer collection system maps been updated and maintained annually	Yes	
MCM3-19	Date the storm sewer collection system map(s) were last updated	2020	
MCM3-20	Does the permittee conduct dry weather screenings of its MS4 outfalls to evaluate the presence of illicit discharges	Yes	
MCM3-21	Does the dry weather screening program include identification of illicit discharge sources	Yes	
MCM3-22	Does the dry weather screening program include actions to remove or correct any illicit discharges	Yes	
MCM3-23	Does the dry weather screening program include responses to reports received from the public or other agencies of suspected or confirmed illicit discharges	Yes	
MCM3-24	Does the dry weather screening program include implementation of enforcement actions if necessary	Yes	
MCM3-25	Does the dry weather screening program include reporting to DEP when necessary	Yes	
MCM3-26	Has dry weather screening occurred for each identified outfall within the frequency outlined in the permit **Notes:** Ongoing screening. All outfalls are planned to be screened by end end of permit term.	Yes	
MCM3-27	Has an inspection or sampling resulted from any outfalls discharging during dry weather screenings **Notes:** -Reeb Millworks outfall has been sampled, but issues were noted.	Yes	
MCM3-28	Does the permittee keep records of outfall observations each time an outfall is screened, regardless of the presence of dry weather flow, for 5 years	Yes	
MCM3-29	Is a summary submitted with the Annual MS4 Status Reports that contains the results of outfall inspections and actions taken to remove or correct illicit discharges	Yes	
MCM3-30	Are observation points used if any outfall is inaccessible	Yes	
MCM3-31	Has the permittee enacted a Stormwater Management Ordinance or SOP to implement and enforce a stormwater management program that includes prohibition of non-stormwater discharges to the regulated small MS4 **Notes:** Last updated 2009.	Yes	
MCM3-32	Has notification been provided to DEP of the approval of any waiver or variance by the permittee that allows an exception to non-stormwater discharge provisions of an ordinance or SOP	Not Applicable	
MCM3-33	Does the permittee provide educational outreach to target audiences about the program to detect and eliminate illicit discharges	Yes	

06 MCM 4 (Construction): 040 - LEHIGH RIVER OUTFALL

MCM-4

MCM4-1	Does the permittee have a protocol in place to require responsible parties to have valid NPDES Permit coverage (i.e., not expired) under 25 Pa. Code Chapter 102 prior to issuing a building or other permit or final approval to those proposing or conducting earth disturbance activities	Yes	
MCM4-2	Does the permittee have a protocol in place to notify DEP or the applicable county conservation district (CCD) within 5 days of the receipt of an application for a permit involving an earth disturbance activity consisting of one acre or more, in accordance with 25 Pa. Code § 102.42	Yes	
MCM4-3	Has the permittee enacted an ordinance or developed a standard operating procedure (SOP) to require the implementation and maintenance of erosion and sediment control BMPs **Notes:** A Memorandum of Understanding (MOU) is place between the Fountain Hill Borough and the Lehigh county conservation district regarding all E&S controls and activities.	Yes	
MCM4-4	Date the ordinance was enacted or SOP was put in place	3/3/2015	
MCM4-5	Is the permittee implementing and enforcing the ordinance or requiring the implementation of	Yes	

MCM4-5	Is the permittee implementing and enforcing the ordinance or requiring the implementation of erosion and sediment control BMPs	Yes	

07 MCM 5 (PCSM): 040 - LEHIGH RIVER OUTFALL

MCM 5

MCM5-1	Has the permittee enacted an ordinance or developed an SOP to require post-construction stormwater management from new development and redevelopment projects	Yes	
MCM5-2	Is the permittee implementing and enforcing an ordinance or SOP to require the implementation and maintenance of post-construcion stormwater management (PCSM) BMPs	Yes	
MCM5-3	Has the permittee developed and implemented measures to encourage and expand the use of low impact development (LID) in new development and redevelopment	Yes	
MCM5-4	Do the measures encourage retrofitting LID into existing development	Yes	
MCM5-5	Do the measures enact ordinances consistent with LID practices and repeal sections of ordinances that conflict with LID practices	Yes	
MCM5-6	Does the permittee have a program in place to ensure adequate operation and maintenance (O&M) of all PCSM BMPs that have been installed at development or redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale?	Yes	
MCM5-7	Has the permittee developed an inventory of PCSM BMPs	Yes	
MCM5-8	Is the PCSM BMP inventory regularly updated and maintained annually	Yes	
MCM5-9	Date of last PCSM BMP inventory update	Apr2020.	
MCM5-10	Does the inventory include all PCSM BMPs that were installed to meet requirements in NPDES Permits for Stormwater Discharges Associated with Construction Activities approved since March 10, 2003	Yes	
MCM5-11	Does the inventory include the exact location of the PCSM BMP (e.g., latitude and longitude, with street address)	Yes	
MCM5-12	Does the inventory include Information (e.g., name, address, phone number(s)) for BMP owners and entities responsible for BMP O&M, if different from BMP owners **Notes:** Yes, through a checklist sent to BMP owner annually.	Yes	
MCM5-13	Does the inventory include the type of BMP and the year it was installed	Yes	
MCM5-14	Does the inventory include maintenance required for the BMP type according to the Pennsylvania Stormwater BMP Manual or other manuals and resources	Yes	
MCM5-15	Does the inventory include the actual inspection/maintenance activities conducted for each BMP	Yes	
MCM5-16	Does the inventory include an assessment by the permittee if proper O&M has occurred during the year and if not, what actions the permittee has taken, or shall take, to address compliance with O&M requirements	Yes	

08 MCM 6 (Housekeeping): 040 - LEHIGH RIVER OUTFALL

MCM 6

MCM6-1	Has the permittee identified and inventoried all operations that are owned or operated by the permittee and have the potential for generating stormwater runoff to the regulated MS4	Yes	
MCM6-2	Is the operations inventory reviewed and updated annually	Yes	
MCM6-3	When was the operations inventory last reviewed and updated	Jun2018	
MCM6-4	Has the permittee developed and implemented a written operation and maintenance (O&M) program for all operations that could contribute to the discharge of pollutants from the MS4	Yes	

MCM6-5	Does the O&M program include management practices, policies, and procedures to reduce or prevent the discharge of pollutants to the MS4	Yes	
MCM6-6	Does the O&M program include maintenance activities, maintenance schedules, and inspection procedures to reduce the potential for pollutants to reach the MS4	Yes	
MCM6-7	Does the O&M program include controls for reducing or eliminating the discharge of pollutants from streets, roads, highways, municipal parking lots, maintenance and storage yards, waste transfer stations, fleet or maintenance shops with outdoor storage areas, salt / sand (anti-skid) storage locations and snow disposal areas	Yes	
MCM6-8	Does the O&M program include procedures for the proper disposal of waste, including dredge spoil, accumulated sediments, trash, household hazardous waste, used motor oil, street sweepings, and other debris	Yes	
MCM6-9	Does the O&M program get reviewed and updated annually	Yes	
MCM6-10	When was the O&M program last reviewed and updated?	Aug2017	
MCM6-11	Has the permittee developed and implemented an employee training program	Yes	
MCM6-12	Does the training program include the MS4 topics of Operation, Inspection, Maintenance and Repair, and the Permittee's stormwater management plan	Yes	
MCM6-13	Is the training program conducted, reviewed, and updated annually	Yes	
MCM6-14	When was the training program last reviewed and updated	Jun2018	
MCM6-15	Does the employee training documentation include dates, names of attendees, names of presenters, and topics covered	Yes	

09 Appendices A, B, and C: 040 - LEHIGH RIVER OUTFALL

Appendices A, B, & C

ABC-1	Is the Permittee required to have additional pollution control measures for impaired receiving waters **Notes:** Appendix C applies.	Yes	
ABC-2	Has the permittee developed mappping of all outfalls and associated sewersheds that discharge to the impaired waters	Yes	
ABC-3	Has the permittee developed an inventory of all suspected and known sources of the pollutant, associated with the stream impairment, within the sewersheds that discharge to the impaired waters **Notes:** Investigations have been made but there are no known sources identified within the Borough.	Yes	
ABC-4	Has the permittee documented its investigations, sampling, and control efforts into suspected sources in its Annual MS4 Status Report **Notes:** Investigation was submitted with 2019/2020 Annual Status Report.	Yes	
ABC-5	Appendix B only, has the permittee enacted a Stormwater Management Ordinance or SOP that requires proper management of animal wastes on property owned by the permittee	Not Applicable	

12 PCSM BMP (Field): 040 - LEHIGH RIVER OUTFALL

PCSM BMP

PCSM-1	Is a Post-Construction Stormwater Management BMP being inspected during this inspection	Yes	
PCSM-2	What is the location of this PCSM BMP	Lat: 40.599498 Long: -75.402880	

PCSM-3	Is this PCSM BMP inventoried and mapped	Yes	
PCSM-4	What type of PCSM BMP is this	Underground SW Basin	
PCSM-5	What is the name of this PCSM BMP	DHD Ventures F.H.	
PCSM-6	Date PCSM BMP was contsructed	Sep2011	
PCSM-7	Describe the drainage area of this PCSM BMP **Notes:** 2.35 acre underground SW Basin located on Dollar General property.	Underground SW Basin	
PCSM-8	Is this PCSM BMP well maintained	Yes	
PCSM-9	Describe the PCSM BMP maintenance issues observed at the time of inspection	None.	
PCSM-10	Responsible party for operation and maintenance of PCSM BMP	Dollar General	
PCSM-11	Activites required for proper operations and maintenance of PCSM BMP **Notes:** Owner conducts semi-Annual inspections and reports annually to the Borough. Last inspection documented was 5/29/2020.	See Note	
PCSM-12	Frequency of activites required for proper operations and maintenance of PCSM BMP	See Note In PCSM-12	
PCSM-13	Does this PCSM BMP appear functional	Yes	
PCSM-14	Is this PCSM BMP permanently stabilized	Yes	
PCSM-15	Is the PCSM BMP free from existing erosion problems	Yes	
PCSM-16	Is the PCSM BMP free from excessive sediment, debris, or trash deposits	Yes	

13 PRP TMDL BMP (Field): 040 - LEHIGH RIVER OUTFALL

PRP TMDL BMP

BMP-1	Is a Pollution Reduction Program (PRP),or Total Maximum Daily Loads (TMDL) Plan, BMP being inspected during this inspection	Yes	
BMP-2	What type of BMP is being inspected	Inlet filter bag	
BMP-3	Is this BMP inventoried and mapped	Yes	
BMP-4	What is the name of this BMP	Inlet for Outfall 43	
BMP-5	What is the location of the BMP	Lat: 40.604880 Long: -75.391569	
BMP-6	Is the BMP well maintained	Yes	
BMP-7	Responsible party for operation and maintenance of BMP	Borough DPW	
BMP-8	Activities required for proper operations and maintenance of BMP	Visual inspections	
BMP-9	Frequency of activites required for proper operations and maintenance of BMP	Monthly visual insp.	
BMP-10	Does this BMP appear functional	Yes	

BMP-11	Is this BMP permanently stabilized	Yes	
BMP-12	Is this BMP free from existing erosion problems	Yes	
BMP-13	Is the BMP free from excessive sediment, debris, or trash deposits	Yes	
BMP-14	Has the BMP been installed as required by Plan	Yes	

11 Outfall (Field): 033 - UNT TO LEHIGH RIVER OUTFALL

Outfall

OF-1	Is an outfall being inspected during this inspection	Yes	
OF-2	Is the outfall inventoried, mapped, and numbered	Yes	
OF-3	What is the outfall number	033	
OF-4	What is the location of the outfall	Lat: 40.605343 Long: -75.390574	
OF-5	Is the outfall structure well maintained	Yes	
OF-6	Is the outfall free from existing erosion problems	Yes	
OF-7	Is the outfall dry, or discharge free from sheen, foams, and discoloration	Yes	
OF-8	Are there any upstream and downstream observations	N/A - Stormdrain	
OF-9	Has this Outfall been sampled as required by the permit	Not Applicable	
OF-10	Does it appear the permittee's sampling point for this outfall representative of entire drainage area	Not Applicable	

10 Operations (Field): 040 - LEHIGH RIVER OUTFALL

Operations

OPS-1	Is a municipal operation being inspected during this inspection	Yes	
OPS-2	What is the type of municipal operation inspected	DPW Facility	
OPS-3	What is the location of the municipal operation inspected	Lat: 40.605796 Long: -75.395740	
OPS-4	Does the municipal operation have a written operation and maintenance (O&M) plan present	Yes	
OPS-5	Are pollution prevention and good housekeeping measures described in the O&M plan implemented onsite	Yes	
OPS-6	Are all pollutional materials (raw materials, products, or wastes/dusts) stored onsite covered or contained	Yes	
OPS-7	Are all wastes generated onsite properly disposed of	Yes	

OPS-8	Is the site of the municipal operation free from existing erosion problems	Yes	
OPS-9	Describe outfalls and discharges from the municipal operation site	Sheetflow Runoff	
OPS-10	Are all discharges free from sheen, foams, and discoloration	Not Observed	

MCM #6

POLLUTION PREVENTION / GOOD HOUSEKEEPING

MUNICIPAL FACILITIES INVENTORY & SPILL PREVENTION AND RESPONSE PLAN

BOROUGH OF FOUNTAIN HILL, LEHIGH COUNTY
March 2006, Last Revised September 2022

PROPERTY INVENTORY

1. Borough Hall Location: 941 Long Street, Fountain Hill, PA 18015

    A. Borough Offices

2. Public Works Building Location: 843 North Clewell Street, Fountain Hill, PA 18015

    A. Public Works Garage
    B. Salt Shed

3. Stanley Avenue Recreation Area: Stanley Avenue, Fountain Hill, PA 18015

    A. Bath House
    B. Pool Pump House
    C. Playground Facilities
    D. Field House & Storage Building

4. Dodson Street Little League Field: Dodson Street, Fountain Hill, PA 18015

    A. Concession Stand
    B. Garage
    C. Vacant Home

5. Brighton Street Pump Station: Brighton Street, Fountain Hill, PA 18015

    A. Control Building

POTENTIAL POLLUTANT INVENTORY BY PROPERTY

1. Borough Hall Location

Indoor

i. Cleaning supplies: Bleach, glass cleaner, soap, toilet bowl cleaner, etc.
ii. Dry Powder Fire Extinguishers
iii. Copier Supplies

Control Measures

i. Cleaning supplies stored in fire proof cabinets
ii. Fire extinguishers serviced annually by Kistler O'Brien
iii. Sprinkler System
iv. Copier supplies kept to a minimum. One (1) toner in copier at all times and only one (1) spare. All others delivered as needed.
v. Supply closets and tool boxes throughout the building.

2. Public Works Garage – Main

Indoor

i. Hydraulic Oil – 55-gallon drum
ii. Motor Oil – 55-gallon drum
iii. Welding supplies
iv. Acetylene: (1) 114 cubic feet, (1) 40 cubic feet
v. Oxygen: 122 cubic feet
vi. 75/25 Argon/CO2: 244 cubic feet
vii. Cleaning Supplies: spray paint, WD40, etc.

Control Measures

i. Absorbent mats
ii. Speedy dry
iii. Fire extinguishers – serviced annually by Kistler O'Brien Fire Protection
iv. Floor drainage system
v. Welding sticks remain in original packaging
vi. Acetylene and Oxygen tanks are secured
vii. Cleaning supplies all stored in cabinets
viii. MSDS (MDS) sheets readily available
ix. Personal protection equipment (PPE)

Outdoor

i. Sodium Chloride: Salt (Storage is seasonal. At time of renovation, there is no salt stored).
ii. Propane: (1) 20 lb, (2) 100 lb, (2) 30 lb
iii. Waste Oil: (1) 250 gallon (temporary tank)
iv. Gasoline: 1,000-gallon (temporary tank)
v. Diesel (on-road): 1,000-gallon (temporary tank)
vi. Sanitary Sewer Line

Control Measures

i. Covered salt shed: all sodium chloride is stored under roof
ii. All outside tanks (propane, waste oil, gasoline, diesel, etc. protected and locked)

3. Stanley Avenue Recreation Area

Indoor

i. Chlorine and pool chemicals: Calcium chloride (50# bags), sodium bicarbonate (50# bags), aluminum sulfite (50# bags) and 400 gallon liquid chlorine storage tank (Seasonal – inventory is extremely limited, or no quantities are on hand when pool is closed).

Control Measures

i. All chemicals are contained within a fenced in area near pool pumps, in a covered (roofed) building, with a retaining wall and fence. The chlorine tank is located inside the building and covered.

Outdoor

i. Chlorine and pool chemicals (Seasonal – inventory is extremely limited, or no quantities are on hand when pool is closed).
ii. CO2 tanks: (5) 50 lb. cylinders

Control Measures

i. All chemicals are contained within a fenced in area near pool pumps, in a covered (roofed) building, with a retaining wall and fence.
ii. CO2 tanks are secured

4. Dodson Street Little League Field

Indoor – Concession Stand

i. General cleaning supplies

Outdoor – Garage and Vacant House

i. Nothing stored in either structure

5. Brighton Street Pump Station

Indoor

i. Motors
ii. Oils
iii. Grease/Lubricants

Outdoor

i. No potential pollution sources

SPILL PREVENTION AND RESPONSE PLAN

Preventing spills of materials and wastes is a significant component of complying with MS4 Regulations. Even with proper training and best prevention efforts, spills may still occur, and it is up to the facility personnel (Public Works Department) to respond quickly to clean-up the spilled material or notify a qualified provider that can assist.

RESPONSIBILITIES

1. The Public Works Supervisor has the primary responsibility for coordinating the response to emergencies, including chemical spills.
2. The Public Works Supervisor should ensure that employees are familiar with these procedures and receive any necessary training.
3. All employees should follow these procedures in the event of a spill.

EMERGENCY CONTACT NUMBERS

The following telephone numbers shall be posted near telephones and in other conspicuous locations:

- Emergency Responders (police, fire department, ambulance services): 911
- Jason Quarry, Public Works Supervisor: 610.954.8134
- Eric C. Gratz, Borough Manager: 610.867.0301
- J. Brad Youst, PE or Jill L. Smith, PE, Township Engineer: 610.691.5644
- PA DEP 24-Hour Emergency Line: 1.800.541.2050
- PA Fish and Boat Commission: 717.626.0228
- Travis Miller, Waterways Conservation Officer: 717.603.1623
- National Response Center: 1.800.424.8802

SPILL CLEAN-UP PROCEDURES

Spilled chemicals should be effectively and quickly contained and cleaned-up. Employees should clean up spills themselves only if properly trained and protected. Employees who are not trained in spill clean-up procedures should report the spill to the Public Works Supervisor or other Responsible Person(s) listed above, warn other employees, and leave the area.

The Maximum Clean-up Amounts that properly trained employees can clean-up are listed below. In the event of spills greater than these amounts, contact the appropriate responders listed in the Emergency Contact Numbers listed above.

The following general guidelines should be followed for evacuation, spill control, notification of proper authorities, and general emergency procedures in the event of a chemical incident in which there is potential for a significant release of hazardous materials.

1. **Evacuation** - Persons in the immediate vicinity of a spill should immediately evacuate the premises (except for employees with training in spill response in circumstances described below).

If the spill is of "medium" or "large" size, or if the spill seems hazardous, immediately notify Emergency Responders at 911.

2. **Spill Control Techniques** - Once a spill has occurred, the employee needs to decide whether the spill is small enough to handle without outside assistance. Only employees with training in spill response should attempt to contain or clean-up a spill.

   NOTE: If you are cleaning-up a spill yourself, make sure you are aware of the hazards associated with the materials spilled, have adequate ventilation, and proper personal protective equipment. Treat all residual chemical and clean-up materials as hazardous waste.

   Spill control equipment should be located wherever significant quantities of hazardous materials are received or stored. Safety Data Sheets (SDS but previously referred to as MSDS), absorbents, over-pack containers, container patch kits, spill dams, shovels, floor dry, acid/base neutralizers, and "caution-keep out" signs are common spill response items.

3. **Spill Response and Clean-up** - Chemical spills are divided into three (3) categories: Small, Medium, and Large. Response and clean-up procedures vary depending on the size of the spill.

   Small Spills: Any spill where the greatest dimension is less than 18 inches in diameter. Small spills are generally handled by internal personnel and usually do not require an emergency response by police or fire department HAZMAT teams.

   - Quickly control the spill by stopping or securing the spill source. This could be as simple as up-righting a container and using floor-dry or absorbent pads to soak-up spilled materials. Wear gloves and protective clothing, if necessary.

   - Put spill material and absorbents in secure containers, if any are available.

   - Consult with the Public Works Supervisor and the SDS for spill and waste disposal procedures.

   - In some instances, the area of the spill should not be washed with water. Use Dry Clean-up Methods and never wash spills down the drain, onto a storm drain, or into a driveway or parking lot.

   - Both the spilled material and the absorbent may be considered hazardous waste and must be disposed of in compliance with state and federal environmental regulations. Reference the SDS and/or contact PA DEP, as necessary.

   Medium Spills: Spills where the greatest dimension exceeds 18 inches, but less than 6 feet. Outside emergency response personnel (police and fire HAZMAT teams) should usually be called for medium spills. Common sense, however, will dictate when it is necessary to call them.

   - Immediately try to help contain the spill at its source by simple measures only. This means quickly up-righting a container or putting a lid on a container, if possible. Do not use

absorbents unless they are immediately available. Once you have made a quick attempt to contain the spill or once you have quickly determined you cannot take any brief containment measures, leave the area and alert Emergency Responders at 911. Closing doors behind you while leaving helps contain fumes from spills. Give police accurate information as to the location, chemical, and estimated amount of the spill.

- Evaluate the area outside of the spill. Engines and electrical equipment near the spill area must be turned off. This eliminates various sources of ignition in the area. Advise Emergency Responders on how to turn off engines or electrical sources. Do not go back into the spill area once you have left. Help Emergency Responders by trying to determine how to shut off heating, air conditioning equipment, or air circulating equipment, if necessary.

- If Emergency Responders evacuate the spill area, follow their instructions in leaving the area.

- After Emergency Responders have contained the spill, be prepared to assist them with any other information that may be necessary, such as SDSs and questions about the facility. Emergency Responders or trained personnel with proper personal protective equipment will then clean-up the spill residue. Do not re-enter the area until the responder in charge gives the "all clear." Be prepared to assist these persons from outside the spill area with the SDSs, absorbents, and containers.

- Reports must be filed with the proper authorities. It is the responsibility of the spiller to inform both his/her supervisor and the Emergency Responders as to what caused the spill.

Large Spills: Any spill involving flammable liquid where the greatest dimension exceeds 6 feet in diameter, and any "running" spill, where the source of the spill has not been contained or flow has not been stopped. The response for large spills is similar to the procedures for medium spills, except that the exposure danger is greater.

- Leave the area and notify Emergency Responders (911). Give the operator the spill location, chemical name, and approximate amount.

- From a safe area, attempt to get SDS information for the spilled chemical for the Emergency Responders to use. Also, be prepared to advise responders as to any ignition sources, engines, electrical power, or air conditioning/ventilation systems that may need to be shut off. Advise responders of any absorbents, containers, or spill control equipment that may be available. This may need to be done from a remote area, because an evacuation that would place the spiller far from the scene may be needed. Use radio or phone to assist from a distance, if necessary.

- Only emergency response personnel, in accordance with their own established procedures, should handle large spills or spills that are continuous. Remember, once the Emergency Responders or HAZMAT teams are on the job to clean-up spills or put out fires, the area is under their control and no one may re-enter the area until the responder in charge gives the "all clear."

- Reports must be filed with the proper authorities. It is the responsibility of the spiller to inform both his/her supervisor and the Emergency Responders as to what caused the spill.

REPORTING SPILLS

All chemical spills, regardless of size, should be reported as soon as possible to the Public Works Supervisor. The Public Works Supervisor will determine whether the spill has the potential to affect the environment outside of the facility and must be reported to 911, PA DEP, or the National Response Center. Examples of spills that could affect the outside environment include spills that are accompanied by fire or explosion and spills that could reach nearby waterbodies.

NOTES

The protocol and procedures outlined above are the minimum standards for spill prevention and response as these issues relate to stormwater and surface water quality. Other Operation and Maintenance Manuals; Employee Manuals; and Federal, State, or Local Regulations may require higher standards of environmental protection than the above-outlined standards. In those cases, the more stringent document shall be used by the employees of the Township.

This Spill Prevention and Response Plan shall be posted in the employees' workplace.

A copy of this Plan shall be provided by the Public Works Supervisor to each new employee as part of that employee's training.

The Public Works Supervisor shall review these procedures with all Field Operation and Maintenance Personnel, annually.

This Plan may be amended from time-to-time at the direction of the Borough Council. Upon revision, the revised Plan shall be posted in the Borough Office and Public Works Department facilities, with copies also issued to all employees.

S:\Projects\Municipal_MS4\Fountain Hill Borough\2018-2023 Permit Term\Annual Progress Report - Year 4\MCM#6 - Pollution Prevention - Good Housekeeping\Inventory-Facilities-Spill Prevention - FINAL 09.22.2022.docx

POLLUTION PREVENTION AND OPERATION & MAINTENANCE PROGRAM FOR THE MS4 STORMWATER MANAGEMENT PROGRAM

BOROUGH OF FOUNTAIN HILL, LEHIGH COUNTY
August 2017

STORMWATER FACILITY OPERATION, MAINTENANCE, AND INSPECTION

1. Regular maintenance of Borough stormwater collection facilities, detention basins, and discharge facilities shall be provided by the Public Works Department.

2. All inlet facilities shall be inspected on normal road inspection for observation of any illegal or illicit discharges to the collection facilities, with formal reports filed with the Pennsylvania Department of Environmental Protection for incidents observed.

3. Regular road inspection activities shall also include the inspection of discharge points, outfalls, and stormwater detention basins for observation of any dry weather flows, and/or placement and/or disposal of any garbage or trash.

4. Observed trash and debris on municipal property and rights-of-way (e.g. local roads and stormwater collection systems) shall be cleaned immediately to prevent transportation into wetlands, floodways, and streams.

5. Observed dry weather flows and/or illegal or illicit discharges shall be immediately reported to the Director of Public Works and/or appropriate Code Enforcement Officer, with appropriate follow-up with the Pennsylvania Department of Environmental Protection and/or Waterways Conservation Officer (Pennsylvania Fish and Boat Commission) for any discharge event or pollution event that may be in violation of State or Federal Regulations.

6. Borough staff shall also observe and report any observed trash disposal and/or illegal or illicit discharges to the Director of Public Works and/or appropriate Code Enforcement Officer, with appropriate follow-up with the Pennsylvania Department of Environmental Protection and/or Waterways Conservation Officer (Pennsylvania Fish and Boat Commission) for any discharge event or pollution event that may be in violation of State or Federal Regulations.

7. Each stormwater detention facility and discharge swale owned and maintained by the Borough shall be inspected at least once per year for proper stability and vegetation (for signs of erosion or other forms of blockage or deterioration). Any areas of observed washout or erosion shall be immediately repaired and restabilized with appropriate vegetation or structural improvements. Similarly, accumulated sediments, debris, trash, garbage, etc. shall be removed and properly disposed to restore full functionality of the stormwater management facility.

8. A similar inspection, with necessary remedial actions, shall be conducted after every storm that exceeds two inches (2") of equivalent rainfall precipitation.

9. Each illegal or illicit discharge event shall be recorded on an "Incident Report" by the Director of Public Works and/or appropriate Code Enforcement Officer with records of:

   - Data and time first observed;
   - Report to the Department of Environmental Protection and/or the PA Fish and Boat Commission;
   - Report of investigation and findings;
   - Report of identified violator and type of pollutant;
   - Report of enforcement action taken;
   - Report of enforcement action secured;
   - Report of violation, fines, or penalties imposed; and
   - Report of fines, penalties, and enforcement achieved.

   All Incident Reports will be provided to the Pennsylvania Department of Environmental Protection and/or Waterways Conservation Officer (Pennsylvania Fish and Boat Commission).

VEHICLE MAINTENANCE, FUELING, AND WASHING

1. The Director of Public Works shall be responsible for the employee training with regard to these procedures.

2. The Director of Public Works shall be ultimately responsible for all vehicle maintenance, fueling, and washing.

3. Vehicle maintenance, fueling, and washing shall be done on **impervious** surfaces, in such a way as to minimize the risk of spills or pollution during the operations. Appropriate spill clean-up materials and equipment shall be maintained in stock and ready for use at all times.

4. Vehicles shall be cleaned using commercial vehicle washes that utilize recycled wash water (whenever possible). If commercial vehicles washes are not available, minimize washing activities and wash water, use only biodegradable non-phosphate detergents sparingly, and direct wash water onto grassed or landscaped areas where all water will slowly infiltrate into the soil. Under no circumstances shall the engine compartments or undersides of vehicles be washed on-site, but rather **always** at an approved wash facility with proper treatment and recycling systems for the wash water.

5. To the greatest extent possible, this work shall be undertaken (except for fueling) within a garage area.

6. All oils, greases, and fluids being drained or cleaned from the vehicle shall be captured and either recycled or transported in a leak-proof container to a facility approved by the Department of Environmental Protection for the disposal and/or ultimate recycling of the used materials.

7. Any accidental spill or release of contaminants or pollutants shall be cleaned immediately in such a way as to prohibit contaminants from running-off the "hard surface" or entering into the ground.

8. Absorbent products such as mats, pads, socks, booms, pillows, etc. and dry absorbent material such as kitty litter, straw, and/or sawdust shall be maintained immediately adjacent to any vehicle maintenance area to assist in the entrapment and clean-up of any spill.

9. Receptacles for the storage of oily rags, used filters, batteries, spent coolants, degreasers, or other pollutants shall be properly maintained and immediately available for maintenance personnel.

10. Drip pans for fluid collection and recycling shall be used at all times. All used fluids shall be properly recycled or disposed.

11. Appropriate reminder signs shall be placed in vehicle maintenance areas to help ensure full compliance with proper management and maintenance activities.

12. Overflow prevention equipment shall be in place for all storage tanks and any employee fueling a vehicle shall be in attendance at all times of fueling to prevent overflow.

13. The employee shall not "top off" fuel tanks under any circumstance to prevent overflow during or after fueling.

14. Fueling areas shall not be cleaned with "running water." Damp-mop on pavements for cleaning. Absorbent products and dry absorbent materials shall be used to soak-up fluids and dry hard surfaces, with proper disposal of used absorbent products and materials.

15. Any vehicle leaking fluids shall be placed "undercover" and shall be provided with drip pans and absorbent products until such time that the vehicle can be properly repaired.

16. Liquid waste from vehicle maintenance shall not be directed to or placed into any floor drain, sink, outdoor storm inlet, or other stormwater management facility.

17. Oil filters, when removed, shall be placed over waste recycling containers to drain excess oil before their proper disposal in standard waste receptacles.

18. Batteries (used and new) shall be stored indoors or in a weather proof container at all times when not in use. All used batteries shall be recycled by East Penn Manufacturing Company or other acceptable service provider.

GENERAL OPERATIONS

1. Store deicing materials and road salts within covered areas, on hard impervious surfaces. To the extent that material or salts spill out into uncovered paved driveway areas, immediately sweep all materials and return those materials to the covered area.

2. Place any snow removed from streets or parking lots at locations no closer than 100 feet from any surface water, stream, spring, or groundwater drinking source.

3. No salt or deicing material storage shall be placed within a 100-year floodplain.

4. Spread salt or deicing materials with trucks using "calibrated" spreaders and minimize the application rate considering the critical issues of road width, weather conditions, traffic concentration, and proximity to surface waters.

5. During the maintenance of any public park or public landscaped area, the application of fertilizers, herbicides, and pesticides shall be undertaken in accordance with the manufacturer's guidelines, and in all cases shall be minimized to meet the minimum criteria established by soil pretesting.

6. Employee applicators shall be licensed by the State for any chemical requiring such licensure.

7. Fertilizer, herbicide, or pesticide shall be applied or placed in accordance with the manufacture's labeling requirements, directions, and application rates.

8. All chemicals, whether vehicle maintenance chemicals or lawn/landscaping maintenance chemicals, shall be stored in secure, fenced, or locked areas with access only available to appropriately trained employees.

9. All used batteries shall be recycled by East Penn Manufacturing Company or other acceptable service provider.

10. All fire extinguishers shall be serviced annually and inspected by an appropriate service provider.

11. Any excavation or earthmoving activity shall be undertaken in accordance with Plans and Procedures that include appropriate Erosion and Sediment Pollution Controls and practices. This includes the cleaning of roadside gutters and/or disposal of soils removed from roadside gutters.

NOTES

The protocol and procedures outlined above are the minimum standards for stormwater system maintenance, vehicle maintenance, and public facility housekeeping, as these issues relate to stormwater and surface water quality. Other Operation and Maintenance Manuals; Employee Manuals; and Federal, State, or Local Regulations may require higher standards of environmental protection than the above-outlined standards. In those cases, the more stringent document shall be used by the employees of the Borough.

This list of operation and maintenance requirements shall be posted in the employees' workplace.

A copy of this list shall be provided by the Public Works Director to each new employee as part of that employee's training.

The Director of Public Works shall review these procedures with all Field Operation and Maintenance Personnel, annually.

This Plan may be amended from time-to-time by the Borough. Upon revision, the revised Plan shall be issued to each employee and shall be posted in the Borough Office and Public Works Department facilities.

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TRAINING PROGRAM

BOROUGH OF FOUNTAIN HILL, LEHIGH COUNTY
June 2018

GENERAL OVERVIEW

An employee training program provides Borough staff the context and understanding of why stormwater management is important to the community. Additionally, a training program increases the number of staff in the community who know how to spot stormwater issues, such as illicit discharges, and how to report them to the appropriate staff or agency.

Specific objectives of the training program aim to increase Borough employee awareness of illicit discharge and detection, good housekeeping BMPs and measures, construction site BMPs, structure BMP operation and maintenance, and general stormwater management. Trainings also prepare Borough employees for spill prevention and response, implementation and maintenance of BMPs, and point source discharge identification.

TRAINING EVENTS AND FREQUENCY

The following table provides training and education events that have be included, at a minimum, in the Training Program. Training and education programs will be developed, reviewed, and/or modified on an annual basis. All Borough employees, including public works staff, administrative staff, elected officials, engineering staff, inspection staff, and zoning officials will be considered during development of an annual program.

Event Description	Targeted Audience	Frequency
"Tailgate" Training	Public Works Director	Monthly
MS4 Program Review	Borough Engineer	Annually
Targeted BMP Training	Borough Engineer	Annually
Illicit Discharge and Detection	Borough Engineer	Annually
Spill Response and Prevention	Borough Engineer	Annually
MS4 Updates	Borough Engineer	Annually

- "Tailgate" training involves on-site, or in-field, training and reviews of specific topics relative to the Borough's O&M Program, selected BMPs, and/or the MS4 Program. The primary focus for this type of event is to maintain the installed structural and non-structural BMPs. These training sessions will provide opportunities to review the operation and maintenance of the BMPs, as well as other considerations such as general stormwater awareness; vehicle and equipment fueling, cleaning, and repairs; illicit discharge and detection; storage of materials; basin/inlet cleaning and maintenance; general housekeeping; hazardous materials; and municipal yard waste.

- MS4 Program Review shall be reviewed annually so the entire Borough staff is educated on general stormwater awareness and updated on changes to the Program. This type of event can be completed in-house and may be presented by the Borough Engineer.

- Targeted BMP training should focus on items of issue affecting the Borough's MS4 Program. A specific structural or non-structural BMP should be identified for training purposes, especially

those that are determined to require additional focus. This training is likely specific to segments of the Borough Staff depending on subject matter and could vary from workshops open to the public to in-house presentations. Recommended target BMPs (with target audience) include, but are not limited to public education planning workshops – administrative staff; innovative BMP design – planning staff, zoning officials; general stormwater management awareness – all staff; construction site BMPs – public works staff, inspectors, planning staff; good housekeeping BMPs – public works staff; basin and outfall cleaning and maintenance – public works staff; and ordinance review – elected officials, administrative staff.

- Illicit discharge and detection trainings are designed to increase the knowledge and response capabilities of the Public Works staff. Training events are recommended to be held annually, including an in-the-field "mock" review or exercise to outline recognition of illicit discharges and reporting requirements. Another training session should include a review of all the outfalls within the Borough where an illicit discharge will affect the MS4, held at least once per permit cycle. This type of training event can be a combined in-the-field review of outfall locations, in-house review of the outfall map, and discussion of types of point source discharges.

- Spill prevention and response training follows the same idea as the Illicit Discharge and Detection training, utilizing an in-the-field session covering hands-on procedures for identifying a spill and proper procedures for control and containment. Borough employees will be better prepared for proper implementation and maintenance of BMPs. A comprehensive review should be completed during this training session to outline prevention techniques. The Borough's Spill Prevention and Response Plan was last updated in 2018 and

- MS4 Program updates, changes, or events of note, e.g. illicit discharges, flooding, ordinance changes, etc. should be reviewed annually with all Staff. This will take place via a meeting or internal memo to ensure the common message is conveyed to all personnel. Other topics may include changes within the Borough or regulation changes that will affect the Program.

Additional materials for training events and sessions conducted in-house can be downloaded from the US EPA and Pennsylvania DEP websites. Opportunities to attend workshops sponsored by local Conservation Districts, surrounding Watershed Associations, PA DEP, and other agencies or groups that offer MS4 training will be considered as part of the approved training program.

DOCUMENTATION

As part of the training program, the Borough will document the following: employee stormwater management training events, including a list of topics covered, names of employees in attendance, and date of each training event.

TRAINING TOOLS

U.S. Environmental Protection Agency
https://www.epa.gov/npdes

Pennsylvania Department of Environmental Protection
http://www.dep.pa.gov/Business/Water/CleanWater/StormwaterMgmt/Stormwater/Pages/default.aspx

POLLUTANT CONTROL MEASURES (PCMs)

**SUBMITTED AS PART OF THE 2019-2020 REPORT.
PROVIDED WITHIN (NOT AMENDED) FOR
INFORMATIONAL PURPOSES ONLY.**

POLLUTANT CONTROL MEASURES (PCMs) FOR WATERS IMPAIRED BY PRIORITY ORGANIC COMPOUNDS

THE BOROUGH OF FOUNTAIN HILL, LEHIGH COUNTY
September 2020

As part of the Borough's Permit Authorization to discharge stormwater from the MS4 to surface waters, the Borough must develop an inventory of all suspected and known anthropogenic (caused or produced by humans) sources of Priority Organic Compounds (POCs), including but not limited to Polychlorinated Biphenyls (PCBs), pesticides, and any other organic compounds listed in 40 CFR Part 423, Appendix A, in stormwater within the drainage areas of outfalls discharging to "impaired" waters. The inventory must identify the source as suspected or known, the basis for this determination, the responsible party (if known), and any corrective actions the permittee has taken or plans to take for any of these sources.

The Pennsylvania Department of Environmental Protection (DEP) routinely monitors and tests the Commonwealth's waters (i.e., streams, rivers, lakes, and estuaries) to determine compliance with Pennsylvania's water quality standards and to identify streams and bodies of water that are not attaining for their respective use categories. The Lehigh River, to which the Borough's MS4 ultimately discharges, is listed as "impaired," or "non-attaining" for aquatic life use and for fish consumption use. Aquatic life use impairment is due to siltation, total suspended solids (TSS), and organic enrichment. Fish consumption use impairment is due to PCBs and begins at approximately 2.8 miles downstream of the Borough boundary where the Saucon Creek discharges into the Lehigh River.

PCBs are a class of manmade chemicals that were manufactured and widely used in electrical and heat transfer equipment from the 1920s through the late-1970s. A study conducted in 1970 found that PCBs are carcinogens (cancer-causing agents), which ultimately led to their manufacturing ban under the 1976 Toxic Substances Control Act (15 U.S.C. 53). As a result of their past prolific use and their chemical stability, PCBs are still found in the environment today. Historic releases and spills of these slowly decomposing organic compounds may contribute to their accumulation in the sediments and beds of many streams and rivers, including the Lehigh River.

The entire land area within the Borough drains to the Lehigh River via two (2) smaller drainage areas. The majority of the Borough land drains through a pipe network to the northeast and discharges through a large underground pipe into the stormwater collection system in South Bethlehem (City of Bethlehem). A smaller drainage pipe network in the northern portion of the Borough, primarily from the lands of St. Luke's Hospital and surrounding residential area, flows to the north and discharges directly into the Lehigh River. Currently, there is no known PCB contamination of the lands or streams within the Borough, and the Lehigh River is not listed for PCB contamination for nearly three (3) miles downstream of the Borough's boundary.

Throughout the 18th Century and well into the 19th Century much, if not all, of the land in the Borough was primarily farmland. As heavy industry came to the Lehigh Valley, the Borough remained primarily residential, with the exception of St. Luke's Hospital (founded 1846). There was also a brief period of time when the Borough hosted a thriving silk and garment industry. The

history of the Borough does not lend itself to be a major contributor of priority organic compound contamination.

The Borough has conducted outfall screening and monitoring since 2003 and there is no known record of a suspected or known discharge of priority organic compounds. As the Borough and its history was reviewed as part of this Appendix C requirement, there are no known or suspected inventories to list. The PCB impairment that occurs approximately three (3) miles downstream of the Borough's boundary is likely due to other potential past or present sources located further downstream.

The Borough realizes the importance of clean water, understands the responsibilities related to stormwater discharges from their MS4, and is committed to continuing in the development, implementation, and enforcement of their MS4 Program. As such, any potential sources of priority organic compounds will be continuously evaluated and included as part of MS4 activities and reporting.

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POLLUTANT REDUCTION PLAN (PRP) IMPLEMENTATION

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance

Month/Year: July 2021

Date(s) of Inspection: 7-16-21 to 7-29-21 Current Weather: Cloudy

Field Inspector(s): Cody & Derek Rain (inches): In Last 24 hrs.: 0 In Last Week: 0

		Inlet Filter Bag No.	Inlet Filter Bag Location	Sediment Build-up		Maintenance Required		Maintenance Follow-up	
				Depth	Needs Removal?	Code	Description/Action Needed	Date Completed	Initials
Phase I	1	001C	Jeter Ave	☐ ¼ ☐ ½ ☑ ¾	Yes	1	Suck Truck	7/16	CL
	2	006	Water St	☐ ¼ ☐ ½ ☐ ¾	no			7/29	CL
	3	011A	Water St	☐ ¼ ☐ ½ ☐ ¾	no			7/29	CL
	4	011B	Water St	☐ ¼ ☐ ½ ☐ ¾	no			7/29	CL
	5	016A	Stanley Ave	☐ ¼ ☐ ½ ☑ ¾	Yes	1	Suck Truck	7/29	CL
	6	016B	Stanley Ave	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck Truck	7/29	CL
	7	017A	Russell Ave	☐ ¼ ☐ ½ ☐ ¾	no			7/16	CL
	8	017B	Russell Ave	☐ ¼ ☐ ½ ☑ ¾	Yes	1	Suck Truck	7/28	CL
	9	017C	Stanley Ave	☐ ¼ ☐ ½ ☐ ¾	no			7/28	CL
	10	019	Lynn St	☐ ¼ ☐ ½ ☑ ¾	Yes	1	Suck Truck	7/16	CL
	11	020	Lynn St	☐ ¼ ☐ ½ ☑ ¾	Yes	1	Suck Truck	7/16	CL
	12	021A	Delaware Ave	☐ ¼ ☐ ½ ☑ ¾	Yes	1	Suck Truck	7/16	CL
	13	021B	Delaware Ave	☐ ¼ ☐ ½ ☑ ¾	Yes	1	Suck Truck	7/16	CL
	14	021C	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	no			7/29	CL
	15	021D	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	Yes	1	Suck Truck	7/28	CL
	16	022A	Lynn St & School St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck Truck	7/29	CL
	17	022B	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	Yes	1	Suck Truck	7/28	CL
	18	038	Elm St	☐ ¼ ☐ ½ ☐ ¾	no			7/28	CL
Phase II	19	101	Jeter Ave & Tombler St	☐ ¼ ☐ ½ ☑ ¾	Yes	1	Suck Truck	7/16	CL
	20	102	Jeter Ave & Tombler St	☐ ¼ ☐ ½ ☑ ¾	Yes	1	Suck Truck	7/16	CL
	21	103	Tombler St & Graham St	☐ ¼ ☐ ½ ☑ ¾	Yes	1	Suck Truck	7/16	CL
	22	104	Tombler St & Graham St	☐ ¼ ☐ ½ ☐ ¾			no Bag	7/29	CL
	23	105	Water St & Cherry St (Outfall 006)	☐ ¼ ☐ ½ ☐ ¾	no			7/29	CL
	24	106A	Water St	☐ ¼ ☐ ½ ☐ ¾	no			7/29	CL
	25	106B	Water St	☐ ¼ ☐ ½ ☐ ¾	no			7/29	CL
	26	107A	Water St	☐ ¼ ☐ ½ ☐ ¾	no			7/29	CL
	27	107B	Water St	☐ ¼ ☐ ½ ☐ ¾	no			7/29	CL
	28	108A	Water St (Outfall 011)	☐ ¼ ☑ ½ ☐ ¾	Yes	1	Suck Truck	7/29	CL
	29	108B	Water St (Outfall 011)	☐ ¼ ☑ ½ ☐ ¾	Yes	1	Suck Truck	7/29	CL
	30	109	Church St & Garden St	☑ ¼ ☐ ½ ☐ ¾	Yes	1/2	Suck Truck	7/29	CL
	31	110	Church St & Garden St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck Truck	7/29	CL
	32	111	Lynn St	☐ ¼ ☐ ½ ☑ ¾	Yes	1	Suck Truck	7/16	CL
	33	112	Lynn St & Wiley St	☐ ¼ ☐ ½ ☑ ¾	Yes	1	Suck Truck	7/16	CL
	34	113A	Moravia St	☐ ¼ ☑ ½ ☐ ¾	Yes	1	Suck Truck	7/29	CL
	35	113B	Moravia St	☐ ¼ ☐ ½ ☐ ¾			no Bag	7/29	CL
	36	114	Elm St and Cherry St	☐ ¼ ☐ ½ ☐ ¾	Yes	1	Suck Truck	7/16	CL
	37	115A	Frederick St & Cherry St	☐ ¼ ☐ ½ ☐ ¾	no			7/16	CL
	38	115B	Frederick St & Cherry St	☐ ¼ ☐ ½ ☐ ¾	Yes	1	Suck Truck	7/16	CL
	39	116A	S. Benner Ave & Cherry St	☐ ¼ ☐ ½ ☐ ¾	no			7/16	CL
	40	116B	S. Benner Ave & Cherry St	☐ ¼ ☐ ½ ☑ ¾	Yes	1	Suck Truck	7/16	CL

Maintenance Codes:

1 - Accumulated Sediment
2 - Trash & Debris
3 - Vegetation Concerns
4 - Water Quality Concerns
5 - Impeded Water Flow
6 - Erosion
7 - Structural Repairs
8 - Cover/Frame/Grate
9 - Damaged Pipes
10 - Mosquito/Vector Breeding
11 - Other
12 - Shaded are Frequent Problem

Weight of Collected Material: 650 **Pounds**

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance

Month/Year: _____

Date(s) of Inspection: 8/12/21 Current Weather: Sunny

Field Inspector(s): Cory & Derek Rain (inches): In Last 24 hrs.: 1 inch In Last Week: 2 inch

		Inlet Filter Bag No.	Inlet Filter Bag Location	Sediment Build-up		Maintenance Required		Maintenance Follow-up	
				Depth	Needs Removal?	Code	Description/Action Needed	Date Completed	Initials
Phase I	1	001C	Jeter Ave	☐ ¼ ☐ ½ ☐ ¾					
	2	006	Water St	☐ ¼ ☐ ½ ☐ ¾					
	3	011A	Water St	☐ ¼ ☐ ½ ☐ ¾					
	4	011B	Water St	☐ ¼ ☐ ½ ☐ ¾					
	5	016A	Stanley Ave	☐ ¼ ☐ ½ ☐ ¾					
	6	016B	Stanley Ave	☐ ¼ ☐ ½ ☐ ¾					
	7	017A	Russell Ave	☐ ¼ ☐ ½ ☐ ¾					
	8	017B	Russell Ave	☐ ¼ ☐ ½ ☐ ¾					
	9	017C	Stanley Ave	☐ ¼ ☐ ½ ☐ ¾					
	10	019	Lynn St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck Truck	8/12	CZ
	11	020	Lynn St	☐ ¼ ☑ ½ ☐ ¾	Yes	1	Suck Truck	8/12	CZ
	12	021A	Delaware Ave	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck Truck	8/12	CZ
	13	021B	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	no			8/12	CZ
	14	021C	Delaware Ave	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck Truck	8/12	CZ
	15	021D	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	no			8/12	CZ
	16	022A	Lynn St & School St	☐ ¼ ☐ ½ ☐ ¾					
	17	022B	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾					
	18	038	Elm St	☐ ¼ ☐ ½ ☐ ¾					
Phase II	19	101	Jeter Ave & Tombler St	☐ ¼ ☑ ½ ☐ ¾	Yes	1	Suck Truck	8/12/21	CZ
	20	102	Jeter Ave & Tombler St	☐ ¼ ☐ ½ ☐ ¾					
	21	103	Tombler St & Graham St	☐ ¼ ☐ ½ ☐ ¾					
	22	104	Tombler St & Graham St	☐ ¼ ☐ ½ ☐ ¾					
	23	105	Water St & Cherry St (Outfall 006)	☐ ¼ ☐ ½ ☐ ¾					
	24	106A	Water St	☐ ¼ ☐ ½ ☐ ¾					
	25	106B	Water St	☐ ¼ ☐ ½ ☐ ¾					
	26	107A	Water St	☐ ¼ ☐ ½ ☐ ¾					
	27	107B	Water St	☐ ¼ ☐ ½ ☐ ¾					
	28	108A	Water St (Outfall 011)	☐ ¼ ☐ ½ ☐ ¾					
	29	108B	Water St (Outfall 011)	☐ ¼ ☐ ½ ☐ ¾					
	30	109	Church St & Garden St	☐ ¼ ☐ ½ ☐ ¾					
	31	110	Church St & Garden St	☐ ¼ ☐ ½ ☐ ¾					
	32	111	Lynn St	☐ ¼ ☑ ½ ☐ ¾	Yes	1	Suck Truck	8/12	CZ
	33	112	Lynn St & Wiley St	☐ ¼ ☑ ½ ☐ ¾	Yes	1	dump + wash	8/13	DP
	34	113A	Moravia St	☐ ¼ ☐ ½ ☐ ¾					
	35	113B	Moravia St	☐ ¼ ☐ ½ ☐ ¾					
	36	114	Elm St and Cherry St	☐ ¼ ☐ ½ ☐ ¾					
	37	115A	Frederick St & Cherry St	☐ ¼ ☑ ½ ☐ ¾	Yes	1	Suck Truck	8/12	CZ
	38	115B	Frederick St & Cherry St	☐ ¼ ☑ ½ ☐ ¾	Yes	1	Suck Truck	8/12	CZ
	39	116A	S. Benner Ave & Cherry St	☐ ¼ ☐ ½ ☑ ¾	Yes	1	Suck Truck	8/12	CZ
	40	116B	S. Benner Ave & Cherry St	☐ ¼ ☐ ½ ☑ ¾	Yes	1	Suck Truck	8/12	CZ

Maintenance Codes:

1 - Accumulated Sediment
2 - Trash & Debris
3 - Vegetation Concerns
4 - Water Quality Concerns
5 - Impeded Water Flow
6 - Erosion
7 - Structural Repairs
8 - Cover/Frame/Grate
9 - Damaged Pipes
10 - Mosquito/Vector Breeding
11 - Other
12 - Shaded are Frequent Problem

Weight of Collected Material: 400 **Pounds**

*Cherokee St

| ¼ | Yes | 1 | dump in truck | 8/13 | DP

6 hrs

Problem Bags

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance

Month/Year: _____

Date(s) of Inspection: 8/26/22 Current Weather: Sunny

Field Inspector(s): Matt Schute Rain (inches): In Last 24 hrs.: _____ In Last Week: _____

		Inlet Filter Bag No.	Inlet Filter Bag Location	Sediment Build-up Depth	Needs Removal?	Maintenance Required Code	Maintenance Required Description/Action Needed	Maintenance Follow-up Date Completed	Maintenance Follow-up Initials
Phase I	1	001C	Jeter Ave	■ ¼ □ ½ □ ¾	Yes	1		8/26	~~EA~~ MS
	2	006	Water St	□ ¼ □ ½ □ ¾		11	OK		MS
	3	011A	Water St	□ ¼ □ ½ □ ¾		11	ok		
	4	011B	Water St	□ ¼ □ ½ □ ¾		11	OK		
	5	016A	Stanley Ave	□ ¼ ■ ½ □ ¾	Yes	1			
	6	016B	Stanley Ave	□ ¼ ■ ½ □ ¾	Yes	1			
	7	017A	Russell Ave	■ ¼ □ ½ □ ¾	Yes	1			
	8	017B	Russell Ave	□ ¼ □ ½ □ ¾	NO	~~1~~			
	9	017C	Stanley Ave	□ ¼ □ ½ ■ ¾	Yes	1			
	10	019	Lynn St	■ ¼ □ ½ □ ¾	Yes	1			
	11	020	Lynn St	□ ¼ □ ½ □ ¾	NO	1			
	12	021A	Delaware Ave	■ ¼ □ ½ □ ¾	Yes	1			
	13	021B	Delaware Ave	■ ¼ □ ½ □ ¾	Yes	1			
	14	021C	Delaware Ave	■ ¼ □ ½ □ ¾	Yes	1			
	15	021D	Delaware Ave	■ ¼ □ ½ □ ¾	Yes	1			
	16	022A	Lynn St & School St	□ ¼ ■ ½ □ ¾	Yes	1	emptied Sediment		
	17	022B	Delaware Ave	□ ¼ □ ½ □ ¾	NO				
	18	038	Elm St	□ ¼ □ ½ ■ ¾		1	emptied Sediment		
Phase II	19	101	Jeter Ave & Tombler St	□ ¼ ■ ½ □ ¾	Yes	1			
	20	102	Jeter Ave & Tombler St	□ ¼ ■ ½ □ ¾	Yes	1			
	21	103	Tombler St & Graham St	□ ¼ □ ½ □ ¾	NO				
	22	104	Tombler St & Graham St	□ ¼ □ ½ □ ¾	NO				
	23	105	Water St & Cherry St (Outfall 006)	□ ¼ ■ ½ □ ¾		1	emptied Sediment		
	24	106A	Water St	□ ¼ ■ ½ □ ¾		1	emptied Sediment		
	25	106B	Water St	□ ¼ □ ½ □ ¾		11	ok		
	26	107A	Water St	□ ¼ □ ½ □ ¾		11	OK		
	27	107B	Water St	□ ¼ □ ½ □ ¾		11	ok		
	28	108A	Water St (Outfall 011)	□ ¼ □ ½ □ ¾		11	Ok		
	29	108B	Water St (Outfall 011)	□ ¼ □ ½ □ ¾		11	ok		
	30	109	Church St & Garden St	□ ¼ □ ½ □ ¾		1	ok		
	31	110	Church St & Garden St	□ ¼ □ ½ □ ¾		1	ok		
	32	111	Lynn St	□ ¼ □ ½ □ ¾		1	OK		
	33	112	Lynn St & Wiley St	□ ¼ □ ½ □ ¾		1	OK		
	34	113A	Moravia St	□ ¼ □ ½ □ ¾					
	35	113B	Moravia St	■ ¼ □ ½ □ ¾			emptied Sediment		
	36	114	Elm St and Cherry St	■ ¼ □ ½ □ ¾			emptied Sediment		
	37	115A	Frederick St & Cherry St	■ ¼ □ ½ □ ¾			emptied Sediment		
	38	115B	Frederick St & Cherry St	■ ¼ □ ½ □ ¾			emptied Sediment		
	39	116A	S. Benner Ave & Cherry St	□ ¼ □ ½ □ ¾		11	ok		
	40	116B	S. Benner Ave & Cherry St	□ ¼ ■ ½ □ ¾	~~Yes~~	1	(Bag Ripped) Replaced		

Maintenance Codes:

1 - Accumulated Sediment
2 - Trash & Debris
3 - Vegetation Concerns
4 - Water Quality Concerns
5 - Impeded Water Flow
6 - Erosion
7 - Structural Repairs
8 - Cover/Frame/Grate
9 - Damaged Pipes
10 - Mosquito/Vector Breeding
11 - Other

Weight of Collected Material: 700 **Pounds**

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance

Month/Year: 9-2-21

Date(s) of Inspection: 9-2-21 Current Weather: Sunny 70oi°

Field Inspector(s): Brian + Derek Rain (inches): In Last 24 hrs.: 4"-6" In Last Week: 5"-7"

		Inlet Filter Bag No.	Inlet Filter Bag Location	Sediment Build-up		Maintenance Required		Maintenance Follow-up	
				Depth	Needs Removal?	Code	Description/Action Needed	Date Completed	Initials
Phase I	1	001C	Jeter Ave / Dodson	□ ¼ □ ½ ■ ¾		1	Shovel sediment out	9-2	BL
	2	006	Water St	□ ¼ □ ½ □ ¾					
	3	011A	Water St	□ ¼ □ ½ □ ¾					
	4	011B	Water St	□ ¼ □ ½ □ ¾					
	5	016A	Stanley Ave	□ ¼ □ ½ □ ¾					
	6	016B	Stanley Ave	□ ¼ ■ ½ □ ¾		1	Shovel sediment out	9-2	BL
	7	017A	Russell Ave	□ ¼ □ ½ □ ¾					
	8	017B	Russell Ave	□ ¼ □ ½ ■ ¾		1	Shovel Sediment out	9-2	BL
	9	017C	Stanley Ave / Park	□ ¼ □ ½ ■ ¾		1	Shovel sediment out	9-2	BL
	10	019	Lynn St	□ ¼ ■ ½ □ ¾		1	" "	9-2	BL
	11	020	Lynn St	□ ¼ ■ ½ □ ¾		1	" "	9-2	BL
	12	021A	Delaware Ave	□ ¼ □ ½ ■ ¾		1	" "	9-2	BL
	13	021B	Delaware Ave	□ ¼ □ ½ □ ¾					
	14	021C	Delaware Ave	□ ¼ ■ ½ □ ¾		1	" "	9-2	BL
	15	021D	Delaware Ave	□ ¼ □ ½ □ ¾					
	16	022A	Lynn St & School St	□ ¼ □ ½ □ ¾					
	17	022B	Delaware Ave	□ ¼ □ ½ □ ¾					
	18	038	Elm St	□ ¼ ■ ½ □ ¾		1	" "	9-3	BL
Phase II	19	101	Jeter Ave & Tombler St	□ ¼ ■ ½ □ ¾		1	Shovel sediment out	9-2	BL
	20	102	Jeter Ave & Tombler St	■ ¼ □ ½ □ ¾		1	Shovel sediment out	9-2	BL
	21	103	Tombler St & Graham St	■ ¼ □ ½ □ ¾		1	" "	9-2	BL
	22	104	Tombler St & Graham St	□ ¼ □ ½ □ ¾					
	23	105	Water St & Cherry St (Outfall 006)	□ ¼ □ ½ □ ¾					
	24	106A	Water St	■ ¼ □ ½ □ ¾		1	" "	9-3	BL
	25	106B	Water St	■ ¼ □ ½ □ ¾		1	" "	9-3	BL
	26	107A	Water St	□ ¼ ■ ½ □ ¾		1	" "	9-3	BL
	27	107B	Water St	□ ¼ ■ ½ □ ¾		1	" "	9-3	BL
	28	108A	Water St (Outfall 011)	□ ¼ ■ ½ □ ¾		1	" "	9-3	BL
	29	108B	Water St (Outfall 011)	□ ¼ ■ ½ □ ¾		1	" "	9-3	BL
	30	109	Church St & Garden St	□ ¼ □ ½ □ ¾	OK			9-3	BL
	31	110	Church St & Garden St	□ ¼ □ ½ □ ¾	OK			9-3	BL
	32	111	Lynn St	□ ¼ □ ½ ■ ¾		1	" "	9-3	BL
	33	112	Lynn St & Wiley St	■ ¼ □ ½ □ ¾		1	" "	9-3	BL
	34	113A	Moravia St	□ ¼ □ ½ ■ ¾		1	" "	9-3	BL
	35	113B	Moravia St	□ ¼ □ ½ □ ¾					
	36	114	Elm St and Cherry St	□ ¼ □ ½ □ ¾					
	37	115A	Frederick St & Cherry St	□ ¼ ■ ½ □ ¾		1	" "	9-3	BL
	38	115B	Frederick St & Cherry St	□ ¼ ■ ½ □ ¾		1	" "	9-3	BL
	39	116A	S. Benner Ave & Cherry St	□ ¼ ■ ½ □ ¾		1	" "	9-2	BL
	40	116B	S. Benner Ave & Cherry St	□ ¼ ■ ½ □ ¾		1	" "	9-2	BL

Maintenance Codes:

1 - Accumulated Sediment
2 - Trash & Debris
3 - Vegetation Concerns
4 - Water Quality Concerns
5 - Impeded Water Flow
6 - Erosion
7 - Structural Repairs
8 - Cover/Frame/Grate
9 - Damaged Pipes
10 - Mosquito/Vector Breeding
11 - Other
12 - Shaded are Frequent Problem

Weight of Collected Material: 2,150 **Pounds**

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance

Month/Year: September 2021

Date(s) of Inspection: 9-10-2021 Current Weather: Sunny & 75

Field Inspector(s): Derek & Cody Rain (inches): In Last 24 hrs.: 1/4 In Last Week: 1/4

		Inlet Filter Bag No.	Inlet Filter Bag Location	Sediment Build-up		Maintenance Required		Maintenance Follow-up	
				Depth	Needs Removal?	Code	Description/Action Needed	Date Completed	Initials
Phase I	1	001C	Jeter Ave / Jackson	□ ¼ □ ½ □ ¾	NO			9-10	DP
	2	006	Water St	□ ¼ □ ½ □ ¾	NO			9-10	DP
	3	011A	Water St	□ ¼ □ ½ □ ¾	NO			9-10	DP
	4	011B	Water St	□ ¼ □ ½ □ ¾	NO			9-10	DP
	5	016A	Stanley Ave	□ ¼ □ ½ □ ¾					
	6	016B	Stanley Ave	□ ¼ □ ½ □ ¾	NO			9-10	DP
	7	017A	Russell Ave	□ ¼ □ ½ □ ¾					
	8	017B	Russell Ave	□ ¼ □ ½ □ ¾	NO			9-10	DP
	9	017C	Stanley Ave / Park	□ ¼ □ ½ □ ¾					
	10	019	Lynn St	□ ¼ □ ½ □ ¾	NO			9-10	DP
	11	020	Lynn St	□ ¼ □ ½ □ ¾	NO			9-10	DP
	12	021A	Delaware Ave	□ ¼ □ ½ □ ¾	NO			9-10	DP
	13	021B	Delaware Ave	□ ¼ □ ½ □ ¾	NO			9-10	DP
	14	021C	Delaware Ave	□ ¼ □ ½ □ ¾	NO			9-10	DP
	15	021D	Delaware Ave	□ ¼ □ ½ □ ¾	NO			9-10	DP
	16	022A	Lynn St & School St	□ ¼ □ ½ □ ¾				c	
	17	022B	Delaware Ave	□ ¼ □ ½ □ ¾					
	18	038	Elm St	□ ¼ □ ½ □ ¾					
Phase II	19	101	Jeter Ave & Tombler St	□ ¼ □ ½ □ ¾	NO			9-10	DP
	20	102	Jeter Ave & Tombler St	□ ¼ □ ½ □ ¾					
	21	103	Tombler St & Graham St	□ ¼ □ ½ □ ¾					
	22	104	Tombler St & Graham St	□ ¼ □ ½ □ ¾					
	23	105	Water St & Cherry St (Outfall 006)	□ ¼ □ ½ □ ¾					
	24	106A	Water St	□ ¼ □ ½ □ ¾	NO			9-10	DP
	25	106B	Water St	□ ¼ □ ½ □ ¾	NO			9-10	DP
	26	107A	Water St	□ ¼ □ ½ □ ¾	NO			9-10	DP
	27	107B	Water St	□ ¼ □ ½ □ ¾	NO			9-10	DP
	28	108A	Water St (Outfall 011)	□ ¼ □ ½ □ ¾	NO			9-10	DP
	29	108B	Water St (Outfall 011)	□ ¼ □ ½ □ ¾	NO			9-10	DP
	30	109	Church St & Garden St	□ ¼ □ ½ □ ¾	NO			9-10	DP
	31	110	Church St & Garden St	□ ¼ □ ½ □ ¾	NO			9-10	DP
	32	111	Lynn St	□ ¼ □ ½ □ ¾	NO			9-10	DP
	33	112	Lynn St & Wiley St	□ ¼ □ ½ □ ¾	NO			9-10	DP
	34	113A	Moravia St	□ ¼ □ ½ □ ¾	NO			9-10	DP
	35	113B	Moravia St	□ ¼ □ ½ □ ¾					
	36	114	Elm St and Cherry St	□ ¼ □ ½ □ ¾					
	37	115A	Frederick St & Cherry St	□ ¼ □ ½ □ ¾	NO			9-10	DP
	38	115B	Frederick St & Cherry St	□ ¼ □ ½ □ ¾	NO			9-10	DP
	39	116A	S. Benner Ave & Cherry St	□ ¼ □ ½ □ ¾	NO		1/8 material in bag	9-10	DP
	40	116B	S. Benner Ave & Cherry St	□ ¼ □ ½ □ ¾	NO			9-10	DP

Maintenance Codes:

1 - Accumulated Sediment
2 - Trash & Debris
3 - Vegetation Concerns
4 - Water Quality Concerns
5 - Impeded Water Flow
6 - Erosion
7 - Structural Repairs
8 - Cover/Frame/Grate
9 - Damaged Pipes
10 - Mosquito/Vector Breeding
11 - Other
12 - Shaded are Frequent Problem

Weight of Collected Material: 0 **Pounds**

Cherokee St No Removal

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance

Month/Year: 2021 October

Date(s) of Inspection: 10/28/2021 Current Weather: Sunny

Field Inspector(s): CJC MMH Rain (inches): In Last 24 hrs.: 1 in In Last Week: 2.5 in

		Inlet Filter Bag No.	Inlet Filter Bag Location	Sediment Build-up		Maintenance Required		Maintenance Follow-up	
				Depth	Needs Removal?	Code	Description/Action Needed	Date Completed	Initials
Phase I	1	001C	Jeter Ave	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	2	006	Water St	□ ¼ □ ½ □ ¾	NO			↓	↓
	3	011A	Water St	□ ¼ □ ½ □ ¾	NO				
	4	011B	Water St	□ ¼ □ ½ □ ¾	NO				
	5	016A	Stanley Ave	☑ ¼ □ ½ □ ¾	Yes	2	removal	10/28	CJC
	6	016B	Stanley Ave	☑ ¼ □ ½ □ ¾	Yes	2	removal	10/28	CJC
	7	017A	Russell Ave	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	8	017B	Russell Ave	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	9	017C	Stanley Ave	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	10	019	Lynn St	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	11	020	Lynn St	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	12	021A	Delaware Ave	□ ¼ ☑ ½ □ ¾	Yes	2, 11	removal & spray	10/28	CJC
	13	021B	Delaware Ave	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	14	021C	Delaware Ave	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	15	021D	Delaware Ave	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	16	022A	Lynn St & School St	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	17	022B	Delaware Ave	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	18	038	Elm St	□ ¼ □ ½ □ ¾	NO			10/28	CJC
Phase II	19	101	Jeter Ave & Tombler St	□ ¼ □ ½ ☑ ¾	Yes	2	removal	10/28	CJC
	20	102	Jeter Ave & Tombler St	□ ¼ □ ½ ☑ ¾	Yes	2		10/28	CJC
	21	103	Tombler St & Graham St	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	22	104	Tombler St & Graham St	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	23	105	Water St & Cherry St (Outfall 006)	□ ¼ □ ½ □ ¾	NO			↓	↓
	24	106A	Water St	□ ¼ □ ½ □ ¾	NO				
	25	106B	Water St	□ ¼ □ ½ □ ¾	NO				
	26	107A	Water St	□ ¼ □ ½ □ ¾	NO				
	27	107B	Water St	□ ¼ □ ½ □ ¾	NO				
	28	108A	Water St (Outfall 011)	□ ¼ □ ½ □ ¾	NO				
	29	108B	Water St (Outfall 011)	□ ¼ □ ½ □ ¾	NO				
	30	109	Church St & Garden St	□ ¼ □ ½ □ ¾	NO				
	31	110	Church St & Garden St	□ ¼ □ ½ □ ¾	NO				
	32	111	Lynn St	□ ¼ □ ½ □ ¾					
	33	112	Lynn St & Wiley St	□ ¼ □ ½ □ ¾	Yes	11	removal & spray	10/28	CJC
	34	113A	Moravia St	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	35	113B	Moravia St	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	36	114	Elm St and Cherry St	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	37	115A	Frederick St & Cherry St	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	38	115B	Frederick St & Cherry St	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	39	116A	S. Benner Ave & Cherry St	□ ¼ □ ½ □ ¾	NO			10/28	CJC
	40	116B	S. Benner Ave & Cherry St	□ ¼ □ ½ □ ¾	NO			10/28	CJC

Maintenance Codes:

1 - Accumulated Sediment
2 - Trash & Debris
3 - Vegetation Concerns
4 - Water Quality Concerns
5 - Impeded Water Flow
6 - Erosion
7 - Structural Repairs
8 - Cover/Frame/Grate
9 - Damaged Pipes
10 - Mosquito/Vector Breeding
11 - Other

Weight of Collected Material: 100 **Pounds**

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance

Month/Year: 12-21

Date(s) of Inspection: 12-10-21 Current Weather: Sunny 40°

Field Inspector(s): Brian + Tristian Rain (inches): In Last 24 hrs.: 0 In Last Week: 1/4"

		Inlet Filter Bag No.	Inlet Filter Bag Location	Sediment Build-up		Maintenance Required		Maintenance Follow-up	
				Depth	Needs Removal?	Code	Description/Action Needed	Date Completed	Initials
Phase I	1	001C	Jeter Ave	■ ¼ □ ½ □ ¾	Yes	1	Mainly leaves	12-10	BL
	2	006	Water St	□ ¼ □ ½ □ ¾					
	3	011A	Water St	□ ¼ □ ½ □ ¾					
	4	011B	Water St	□ ¼ □ ½ □ ¾					
	5	016A	Stanley Ave	□ ¼ ■ ½ □ ¾	Yes		All leaves	12-10	BL
	6	016B	Stanley Ave	□ ¼ ■ ½ □ ¾	Yes		All leaves	12-10	BL
	7	017A	Russell Ave	□ ¼ □ ½ □ ¾					
	8	017B	Russell Ave	□ ¼ □ ½ □ ¾					
	9	017C	Stanley Ave	□ ¼ □ ½ □ ¾					
	10	019	Lynn St	■ ¼ □ ½ □ ¾	Yes			12-12	BL
	11	020	Lynn St	□ ¼ □ ½ □ ¾					
	12	021A	Delaware Ave	□ ¼ ■ ½ □ ¾	Yes	1		12-10	BL
	13	021B	Delaware Ave	□ ¼ □ ½ ■ ¾	Yes	1		12-10	BL
	14	021C	Delaware Ave	□ ¼ □ ½ □ ¾					
	15	021D	Delaware Ave	□ ¼ □ ½ □ ¾					
	16	022A	Lynn St & School St	□ ¼ □ ½ □ ¾					
	17	022B	Delaware Ave	□ ¼ □ ½ □ ¾					
	18	038	Elm St	□ ¼ □ ½ □ ¾					
Phase II	19	041	Brighton St.	□ ¼ □ ½ □ ¾					
	20	043	Cherokee St.	■ ¼ □ ½ □ ¾	Yes			12-12	BL
	21	101	Jeter Ave & Tombler St	□ ¼ □ ½ □ ¾					
	22	102	Jeter Ave & Tombler St	■ ¼ □ ½ □ ¾	Yes	1	Mainly leaves	12-10	BL
	23	103	Tombler St & Graham St	□ ¼ □ ½ □ ¾					
	24	104	Tombler St & Graham St	□ ¼ □ ½ □ ¾					
	25	105	Water St & Cherry St (Outfall 006)	□ ¼ □ ½ □ ¾					
	26	106A	Water St	□ ¼ □ ½ □ ¾					
	27	106B	Water St	□ ¼ □ ½ □ ¾					
	28	107A	Water St	□ ¼ □ ½ □ ¾					
	29	107B	Water St	□ ¼ □ ½ □ ¾					
	30	108A	Water St (Outfall 011)	□ ¼ □ ½ □ ¾					
	31	108B	Water St (Outfall 011)	□ ¼ □ ½ □ ¾					
	32	109	Church St & Garden St	□ ¼ □ ½ □ ¾					
	33	110	Church St & Garden St	□ ¼ □ ½ □ ¾					
	34	111	Lynn St	□ ¼ □ ½ □ ¾					
	35	112	Lynn St & Wiley St	■ ¼ □ ½ □ ¾	Yes	1		12-10	BL
	36	113A	Moravia St	□ ¼ □ ½ □ ¾					
	37	113B	Moravia St	□ ¼ □ ½ □ ¾					
	38	114	Elm St and Cherry St	□ ¼ □ ½ □ ¾					
	39	115A	Frederick St & Cherry St	□ ¼ □ ½ □ ¾					
	40	115B	Frederick St & Cherry St	□ ¼ □ ½ □ ¾					
	41	116A	S. Benner Ave & Cherry St	□ ¼ □ ½ □ ¾					
	42	116B	S. Benner Ave & Cherry St	□ ¼ □ ½ □ ¾					

Maintenance Codes:

1 - Accumulated Sediment
2 - Trash & Debris
3 - Vegetation Concerns
5 - Impeded Water Flow
6 - Erosion
7 - Structural Repairs
9 - Damaged Pipes
10 - Mosquito/Vector Breeding
11 - Recommend Bag Replacement

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance

Month/Year: _____

4 - Water Quality Concerns

8 - Cover/Frame/Grate

12 - Other

Shaded - Frequent Problems

Weight of Collected Material: _____ Pounds

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance

Month/Year: Feb 2022

Date(s) of Inspection: 2/11/2020 Current Weather: Sunny 46°

Field Inspector(s): Derek / Tristen Rain (inches): In Last 24 hrs.: _____ In Last Week: _____

		Inlet Filter Bag No.	Inlet Filter Bag Location	Sediment Build-up		Maintenance Required		Maintenance Follow-up	
				Depth	Needs Removal?	Code	Description/Action Needed	Date Completed	Initials
Phase I	1	001C	Jeter Ave	☐ ¼ ☐ ½ ☐ ¾	Yes	1	Dump in truck	2/11	DP
	2	006	Water St	☐ ¼ ☐ ½ ☐ ¾					
	3	011A	Water St	☐ ¼ ☐ ½ ☐ ¾					
	4	011B	Water St	☐ ¼ ☐ ½ ☐ ¾					
	5	016A	Stanley Ave	☐ ¼ ☐ ½ ☐ ¾	NO			2/11	DP
	6	016B	Stanley Ave	☐ ¼ ☐ ½ ☐ ¾	NO			2/11	DP
	7	017A	Russell Ave	☐ ¼ ☐ ½ ☐ ¾	NO			2/11	DP
	8	017B	Russell Ave	☐ ¼ ☐ ½ ☐ ¾	NO			2/11	DP
	9	017C	Stanley Ave	☐ ¼ ☐ ½ ☐ ¾	NO			2/11	DP
	10	019	Lynn St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	dump in truck/collapsed	2/11	DP
	11	020	Lynn St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	dump in truck	2/11	DP
	12	021A	Delaware Ave	☑ ¼ ☐ ½ ☐ ¾	Yes	1			
	13	021B	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	14	021C	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	15	021D	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	16	022A	Lynn St & School St	☐ ¼ ☐ ½ ☐ ¾					
	17	022B	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾					
	18	038	Elm St	☐ ¼ ☐ ½ ☐ ¾					
Phase II	19	041	Brighton St.	☐ ¼ ☐ ½ ☐ ¾					
	20	043	Cherokee St.	☐ ¼ ☐ ½ ☐ ¾	NO				
	21	101	Jeter Ave & Tombler St	☐ ¼ ☐ ½ ☐ ¾					
	22	102	Jeter Ave & Tombler St	☐ ¼ ☐ ½ ☐ ¾					
	23	103	Tombler St & Graham St	☐ ¼ ☐ ½ ☐ ¾					
	24	104	Tombler St & Graham St	☐ ¼ ☐ ½ ☐ ¾					
	25	105	Water St & Cherry St (Outfall 006)	☐ ¼ ☐ ½ ☐ ¾					
	26	106A	Water St	☐ ¼ ☐ ½ ☐ ¾					
	27	106B	Water St	☐ ¼ ☐ ½ ☐ ¾					
	28	107A	Water St	☐ ¼ ☐ ½ ☐ ¾					
	29	107B	Water St	☐ ¼ ☐ ½ ☐ ¾					
	30	108A	Water St (Outfall 011)	☐ ¼ ☐ ½ ☐ ¾					
	31	108B	Water St (Outfall 011)	☐ ¼ ☐ ½ ☐ ¾					
	32	109	Church St & Garden St	☐ ¼ ☐ ½ ☐ ¾					
	33	110	Church St & Garden St	☐ ¼ ☐ ½ ☐ ¾					
	34	111	Lynn St	☐ ¼ ☑ ½ ☐ ¾	Yes	1	Shovel in truck	2/11	DP
	35	112	Lynn St & Wiley St	☐ ¼ ☑ ½ ☐ ¾	Yes	1	Shovel in truck	2/11	DP
	36	113A	Moravia St	☐ ¼ ☐ ½ ☐ ¾					
	37	113B	Moravia St	☐ ¼ ☐ ½ ☐ ¾					
	38	114	Elm St and Cherry St	☐ ¼ ☐ ½ ☐ ¾					
	39	115A	Frederick St & Cherry St	☐ ¼ ☐ ½ ☐ ¾					
	40	115B	Frederick St & Cherry St	☐ ¼ ☐ ½ ☐ ¾					
	41	116A	S. Benner Ave & Cherry St	☐ ¼ ☑ ½ ☐ ¾	Yes	1	dump in truck	2/11	DP
	42	116B	S. Benner Ave & Cherry St	☐ ¼ ☑ ½ ☐ ¾	Yes	1	dump in truck	2/11	DP

Maintenance Codes:

1 - Accumulated Sediment
2 - Trash & Debris
3 - Vegetation Concerns
5 - Impeded Water Flow
6 - Erosion
7 - Structural Repairs
9 - Damaged Pipes
10 - Mosquito/Vector Breeding
11 - Recommend Bag Replacement

* Problem Bags

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance

Month/Year: _____

4 - Water Quality Concerns

8 - Cover/Frame/Grate

12 - Other
Shaded - Frequent Problems

Weight of Collected Material: 350 **Pounds**

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance

Month/Year: 3-2022

Date(s) of Inspection: 3-4-2022 Current Weather: 38 Sunny

Field Inspector(s): Brian + Derek Rain (inches): In Last 24 hrs.: 0 In Last Week: .5"

		Inlet Filter Bag No.	Inlet Filter Bag Location	Sediment Build-up		Maintenance Required		Maintenance Follow-up	
				Depth	Needs Removal?	Code	Description/Action Needed	Date Completed	Initials
Phase I	1	001C	Jeter Ave	■ ¼ □ ½ □ ¾	Yes	1		3-4	BL
	2	006	Water St	□ ¼ □ ½ □ ¾					
	3	011A	Water St	□ ¼ □ ½ □ ¾					
	4	011B	Water St	□ ¼ □ ½ □ ¾					
	5	016A	Stanley Ave	□ ¼ □ ½ □ ¾					
	6	016B	Stanley Ave	□ ¼ □ ½ □ ¾					
	7	017A	Russell Ave	■ ¼ □ ½ □ ¾	Yes	1		3-4	BL
	8	017B	Russell Ave	■ ¼ □ ½ □ ¾	Yes	12	Clean leaves out	3-4	BL
	9	017C	Stanley Ave	■ ¼ □ ½ □ ¾	Yes	12	Clean leaves out	3-4	BL
	10	019	Lynn St	□ ¼ □ ½ □ ¾		12	Clean leaves out	3-4	BL
	11	020	Lynn St	□ ¼ □ ½ □ ¾		12	Clean leaves out	3-4	BL
	12	021A	Delaware Ave	□ ¼ □ ½ □ ¾					
	13	021B	Delaware Ave	□ ¼ □ ½ □ ¾					
	14	021C	Delaware Ave	□ ¼ □ ½ □ ¾					
	15	021D	Delaware Ave	□ ¼ □ ½ □ ¾					
	16	022A	Lynn St & School St Clean Bag	□ ¼ ■ ½ □ ¾	Yes	1		3-4	BL
	17	022B	Delaware Ave	□ ¼ □ ½ □ ¾					
	18	038	Elm St	□ ¼ □ ½ □ ¾					
Phase II	19	041	Brighton St.	□ ¼ □ ½ □ ¾					
	20	043	Cherokee St.	■ ¼ □ ½ □ ¾		1		3-4	BL
	21	101	Jeter Ave & Tombler St	■ ¼ □ ½ □ ¾	Yes	1		3-4	BL
	22	102	Jeter Ave & Tombler St	■ ¼ □ ½ □ ¾	Yes	1		3-4	BL
	23	103	Tombler St & Graham St	□ ¼ ■ ½ □ ¾	Yes	1		3-4	BL
	24	104	Tombler St & Graham St	□ ¼ □ ½ □ ¾					
	25	105	Water St & Cherry St (Outfall 006)	□ ¼ □ ½ □ ¾					
	26	106A	Water St	□ ¼ □ ½ □ ¾	Yes	12	Clean leaves out	3-4	BL
	27	106B	Water St	□ ¼ □ ½ □ ¾	Yes	12	Clean leaves out	3-4	BL
	28	107A	Water St	□ ¼ □ ½ □ ¾					
	29	107B	Water St	□ ¼ □ ½ □ ¾					
	30	108A	Water St (Outfall 011) Clean bags	□ ¼ ■ ½ □ ¾	Yes	1		3-4	BL
	31	108B	Water St (Outfall 011) Clean bags	□ ¼ ■ ½ □ ¾	Yes	1		3-4	BL
	32	109	Church St & Garden St	□ ¼ ■ ½ □ ¾	Yes	1		3-4	BL
	33	110	Church St & Garden St	□ ¼ ■ ½ □ ¾	Yes	1		3-4	BL
	34	111	Lynn St	□ ¼ □ ½ □ ¾					
	35	112	Lynn St & Wiley St	■ ¼ □ ½ □ ¾	Yes	1		3-4	BL
	36	113A	Moravia St	□ ¼ □ ½ ■ ¾	Yes	1		3-4	BL
	37	113B	Moravia St	□ ¼ □ ½ □ ¾					
	38	114	Elm St and Cherry St	□ ¼ □ ½ □ ¾					
	39	115A	Frederick St & Cherry St Clean Bags	□ ¼ ■ ½ □ ¾		1		3-4	BL
	40	115B	Frederick St & Cherry St	□ ¼ ■ ½ □ ¾		1		3-4	BL
	41	116A	S. Benner Ave & Cherry St	□ ¼ □ ½ □ ¾					
	42	116B	S. Benner Ave & Cherry St	□ ¼ □ ½ □ ¾					

Maintenance Codes:

1 - Accumulated Sediment
2 - Trash & Debris
3 - Vegetation Concerns
5 - Impeded Water Flow
6 - Erosion
7 - Structural Repairs
9 - Damaged Pipes
10 - Mosquito/Vector Breeding
11 - Recommend Bag Replacement

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance

Month/Year: _____

4 - Water Quality Concerns

8 - Cover/Frame/Grate

12 - Other
Shaded - Frequent Problems

Weight of Collected Material: 937 **Pounds**

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance

Month/Year: March 2022

Date(s) of Inspection: 3/28/2022 Current Weather: Partly Cloudy 21°

Field Inspector(s): _____ Rain (inches): In Last 24 hrs.: _____ In Last Week: _____

		Inlet Filter Bag No.	Inlet Filter Bag Location	Sediment Build-up		Maintenance Required		Maintenance Follow-up	
				Depth	Needs Removal?	Code	Description/Action Needed	Date Completed	Initials
Phase I	1	001C	Jeter Ave	☑ ¼ ☐ ½ ☐ ¾	yes	1	dump in Truck	3/28	DP
	2	006	Water St	☐ ¼ ☐ ½ ☐ ¾	NO				
	3	011A	Water St	☐ ¼ ☐ ½ ☐ ¾	NO				
	4	011B	Water St	☐ ¼ ☐ ½ ☐ ¾	NO				
	5	016A	Stanley Ave	☑ ¼ ☐ ½ ☐ ¾	yes	1	dump in Truck	3-28	DP
	6	016B	Stanley Ave	☑ ¼ ☐ ½ ☐ ¾	yes	1	dump in Truck	3-28	DP
	7	017A	Russell Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	8	017B	Russell Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	9	017C	Stanley Ave (Park)	☐ ¼ ☐ ½ ☐ ¾	NO				
	10	019	Lynn St	☐ ¼ ☐ ½ ☐ ¾	yes	12	collapsed in / dump	3/28	DP
	11	020	Lynn St	☐ ¼ ☐ ½ ☐ ¾	NO				
	12	021A	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	13	021B	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	14	021C	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	15	021D	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	16	022A	Lynn St & School St	☐ ¼ ☐ ½ ☐ ¾	NO				
	17	022B	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾					
	18	038	Elm St	☐ ¼ ☐ ½ ☐ ¾	NO				
Phase II	19	041	Brighton St.	☐ ¼ ☐ ½ ☐ ¾	NO				
	20	043	Cherokee St.	☐ ¼ ☐ ½ ☐ ¾	NO				
	21	101	Jeter Ave & Tombler St	☑ ¼ ☐ ½ ☐ ¾	yes	1	dump in Truck	3/28	DP
	22	102	Jeter Ave & Tombler St	☑ ¼ ☐ ½ ☐ ¾	yes	1	dump in Truck	3/28	DP
	23	103	Tombler St & Graham St	☑ ¼ ☐ ½ ☐ ¾	yes	1	dump in Truck	3/28	DP
	24	104	Tombler St & Graham St	☐ ¼ ☐ ½ ☐ ¾					
	25	105	Water St & Cherry St (Outfall 006)	☐ ¼ ☐ ½ ☐ ¾	NO				
	26	106A	Water St	☑ ¼ ☐ ½ ☐ ¾	yes	1	dump in Truck	3/28	DP
	27	106B	Water St	☑ ¼ ☐ ½ ☐ ¾	yes	1	dump in Truck	3/28	DP
	28	107A	Water St	☐ ¼ ☐ ½ ☐ ¾	no				
	29	107B	Water St	☐ ¼ ☐ ½ ☐ ¾	no				
	30	108A	Water St (Outfall 011)	☐ ¼ ☐ ½ ☐ ¾	no				
	31	108B	Water St (Outfall 011)	☐ ¼ ☐ ½ ☐ ¾	no				
	32	109	Church St & Garden St	☐ ¼ ☐ ½ ☐ ¾	yes	1	dump in truck	3/28	BL
	33	110	Church St & Garden St	☐ ¼ ☐ ½ ☐ ¾	no				
	34	111	Lynn St	☐ ¼ ☐ ½ ☐ ¾	yes	1	dump in truck		
	35	112	Lynn St & Wiley St	☐ ¼ ☐ ½ ☐ ¾	yes	1	dump in truck		
	36	113A	Moravia St	☐ ¼ ☐ ½ ☐ ¾	NO				
	37	113B	Moravia St	☐ ¼ ☐ ½ ☐ ¾					
	38	114	Elm St and Cherry St	☐ ¼ ☐ ½ ☐ ¾	yes	1,11	dump & replace Bag	3/28	BL
	39	115A	Frederick St & Cherry St	☐ ¼ ☐ ½ ☐ ¾	NO				
	40	115B	Frederick St & Cherry St	☐ ¼ ☐ ½ ☐ ¾	NO				
	41	116A	S. Benner Ave & Cherry St	☐ ¼ ☐ ½ ☐ ¾	yes	1	dump in truck	3/28	BL
	42	116B	S. Benner Ave & Cherry St	☐ ¼ ☐ ½ ☐ ¾	yes	1	dump in truck	3/28	BL

Maintenance Codes:

1 - Accumulated Sediment
2 - Trash & Debris
3 - Vegetation Concerns
5 - Impeded Water Flow
6 - Erosion
7 - Structural Repairs
9 - Damaged Pipes
10 - Mosquito/Vector Breeding
11 - Recommend Bag Replacement

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance
Month/Year: _____

4 - Water Quality Concerns

8 - Cover/Frame/Grate

12 - Other
Shaded - Frequent Problems

Weight of Collected Material: 700 **Pounds**

8hrs

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance

Month/Year: April 2022

Date(s) of Inspection: 4/26 Current Weather: Cloudy 50°

Field Inspector(s): Derek, Brian L. Rain (inches): In Last 24 hrs.: 0 In Last Week: 0

		Inlet Filter Bag No.	Inlet Filter Bag Location	Sediment Build-up		Maintenance Required		Maintenance Follow-up	
				Depth	Needs Removal?	Code	Description/Action Needed	Date Completed	Initials
Phase I	1	001C	Jeter Ave & Dodson	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck truck		
	2	006	Water St	☐ ¼ ☐ ½ ☐ ¾	No				
	3	011A	Water St	☐ ¼ ☐ ½ ☐ ¾	NO				
	4	011B	Water St	☐ ¼ ☐ ½ ☐ ¾	NO				
	5	016A	Stanley Ave	☐ ¼ ☐ ½ ☐ ¾	NO	1	Suck truck		
	6	016B	Stanley Ave	☐ ¼ ☐ ½ ☐ ¾	NO	1	Suck truck		
	7	017A	Russell Ave	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck truck		
	8	017B	Russell Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	9	017C	Stanley Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	10	★019	Lynn St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck truck		
	11	★020	Lynn St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck truck		
	12	021A	Delaware Ave	☐ ¼ ☑ ½ ☐ ¾	Yes	1	Suck truck		
	13	021B	Delaware Ave	☐ ¼ ☑ ½ ☐ ¾	Yes	1	Suck truck		
	14	021C	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	15	021D	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	16	022A	Lynn St & School St	☐ ¼ ☑ ½ ☐ ¾	Yes	1	Suck truck		
	17	022B	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾					
	18	038	Elm St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck truck		
Phase II	19	041	Brighton St.	☑ ¼ ☐ ½ ☐ ¾	NO	1	Suck truck		
	20	★043	Cherokee St.	☐ ¼ ☐ ½ ☐ ¾	NO				
	21	101	Jeter Ave & Tombler St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck truck		
	22	102	Jeter Ave & Tombler St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck truck		
	23	103	Tombler St & Graham St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck truck		
	24	104	Tombler St & Graham St	☐ ¼ ☐ ½ ☐ ¾					
	25	105	Water St & Cherry St (Outfall 006)	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck Truck		
	26	106A	Water St	☑ ¼ ☐ ½ ☐ ¾	NO	1	Suck Truck		
	27	106B	Water St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck Truck		
	28	107A	Water St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck Truck		
	29	107B	Water St	☑ ¼ ☐ ½ ☐ ¾	NO	1	Suck Truck		
	30	108A	Water St (Outfall 011)	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck Truck		
	31	108B	Water St (Outfall 011)	☐ ¼ ☐ ½ ☐ ¾					
	32	109	Church St & Garden St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck truck		
	33	110	Church St & Garden St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck truck		
	34	★111	Lynn St	☐ ¼ ☐ ½ ☑ ¾	NO	1	Suck Truck		
	35	★112	Lynn St & Wiley St	☐ ¼ ☑ ½ ☐ ¾	Yes	1	Suck Truck		
	36	113A	Moravia St	☑ ¼ ☐ ½ ☐ ¾	yes	1	Suck Truck		
	37	113B	Moravia St	☐ ¼ ☐ ½ ☐ ¾					
	38	114	Elm St and Cherry St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck truck		
	39	115A	Frederick St & Cherry St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck truck		
	40	115B	Frederick St & Cherry St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck truck		
	41	★116A	S. Benner Ave & Cherry St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck truck		
	42	★116B	S. Benner Ave & Cherry St	☑ ¼ ☐ ½ ☐ ¾	Yes	1	Suck truck		

Maintenance Codes:

1 - Accumulated Sediment
2 - Trash & Debris
3 - Vegetation Concerns
5 - Impeded Water Flow
6 - Erosion
7 - Structural Repairs
9 - Damaged Pipes
10 - Mosquito/Vector Breeding
11 - Recommend Bag Replacement

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance
Month/Year: _____

4 - Water Quality Concerns

8 - Cover/Frame/Grate

12 - Other
Shaded - Frequent Problems

Weight of Collected Material: 750 **Pounds**

8 hrs

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance

Month/Year: May 2022

Date(s) of Inspection: 5/26/22 Current Weather: _____

Field Inspector(s): Derek Matt Rain (inches): In Last 24 hrs.: _____ In Last Week: _____

		Inlet Filter Bag No.	Inlet Filter Bag Location	Sediment Build-up		Maintenance Required		Maintenance Follow-up	
				Depth	Needs Removal?	Code	Description/Action Needed	Date Completed	Initials
Phase I	1	001C	Jeter Ave	☑ ¼ ☐ ½ ☐ ¾	YES	1	dump in truck	5/26	DP
	2	006	Water St	☐ ¼ ☐ ½ ☐ ¾	NO				
	3	011A	Water St	☐ ¼ ☐ ½ ☐ ¾	NO				
	4	011B	Water St	☐ ¼ ☐ ½ ☐ ¾					
	5	016A	Stanley Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	6	016B	Stanley Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	7	017A	Russell Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	8	017B	Russell Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	9	017C	Stanley Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	10	019	Lynn St	☑ ¼ ☐ ½ ☐ ¾	YES	1	collapsed bag/dump in truck	5/26	DP
	11	020	Lynn St	☐ ¼ ☐ ½ ☐ ¾	NO				
	12	021A	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	13	021B	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	14	021C	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	15	021D	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	16	022A	Lynn St & School St	☐ ¼ ☐ ½ ☐ ¾	NO				
	17	022B	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	18	038	Elm St	☐ ¼ ☐ ½ ☐ ¾	NO				
Phase II	19	041	Brighton St.	☐ ¼ ☐ ½ ☐ ¾	NO				
	20	043	Cherokee St.	☐ ¼ ☐ ½ ☐ ¾					
	21	101	Jeter Ave & Tombler St	☑ ¼ ☐ ½ ☐ ¾	YES	1	Dump in truck	5/26	DP
	22	102	Jeter Ave & Tombler St	☐ ¼ ☐ ½ ☐ ¾	NO				
	23	103	Tombler St & Graham St	☐ ¼ ☐ ½ ☐ ¾	NO				
	24	104	Tombler St & Graham St	☐ ¼ ☐ ½ ☐ ¾	NO				
	25	105	Water St & Cherry St (Outfall 006)	☐ ¼ ☐ ½ ☐ ¾					
	26	106A	Water St	☐ ¼ ☐ ½ ☐ ¾	NO				
	27	106B	Water St	☐ ¼ ☐ ½ ☐ ¾	NO				
	28	107A	Water St	☐ ¼ ☐ ½ ☐ ¾	NO				
	29	107B	Water St	☐ ¼ ☐ ½ ☐ ¾	NO				
	30	108A	Water St (Outfall 011)	☐ ¼ ☐ ½ ☐ ¾	NO				
	31	108B	Water St (Outfall 011)	☐ ¼ ☐ ½ ☐ ¾	NO				
	32	109	Church St & Garden St	☐ ¼ ☐ ½ ☐ ¾	NO				
	33	110	Church St & Garden St	☐ ¼ ☐ ½ ☐ ¾	NO				
	34	111	Lynn St	☐ ¼ ☐ ½ ☐ ¾	Yes	1	Could not access	5/26	DP
	35	112	Lynn St & Wiley St	☐ ¼ ☐ ½ ☐ ¾	Yes	1	Could not access	5/26	DP
	36	113A	Moravia St	☐ ¼ ☐ ½ ☐ ¾	NO				
	37	113B	Moravia St	☐ ¼ ☐ ½ ☐ ¾	NO				
	38	114	Elm St and Cherry St	☐ ¼ ☐ ½ ☐ ¾	NO				
	39	115A	Frederick St & Cherry St	☐ ¼ ☐ ½ ☐ ¾	NO				
	40	115B	Frederick St & Cherry St	☐ ¼ ☐ ½ ☐ ¾	NO				
	41	116A	S. Benner Ave & Cherry St	☐ ¼ ☐ ½ ☐ ¾	NO				
	42	116B	S. Benner Ave & Cherry St	☐ ¼ ☐ ½ ☐ ¾	NO				

Maintenance Codes:

1 - Accumulated Sediment
2 - Trash & Debris
3 - Vegetation Concerns
5 - Impeded Water Flow
6 - Erosion
7 - Structural Repairs
9 - Damaged Pipes
10 - Mosquito/Vector Breeding
11 - Recommend Bag Replacement

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance

Month/Year: _____

4 - Water Quality Concerns

8 - Cover/Frame/Grate

12 - Other

Shaded - Frequent Problems

Weight of Collected Material: 150 **Pounds**

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance

Month/Year: June 2022

Date(s) of Inspection: 6/28 + 7/5 Current Weather: _____

Field Inspector(s): Derek, Gary Rain (inches): In Last 24 hrs.: 1/2" In Last Week: _____

		Inlet Filter Bag No.	Inlet Filter Bag Location	Sediment Build-up		Maintenance Required		Maintenance Follow-up	
				Depth	Needs Removal?	Code	Description/Action Needed	Date Completed	Initials
Phase I	1	001C	Jeter Ave	☒ ¼ ☐ ½ ☐ ¾	yes	1	Shovel out	6/28/22	DP
	2	006	Water St	☐ ¼ ☐ ½ ☐ ¾	NO				
	3	011A	Water St	☐ ¼ ☐ ½ ☐ ¾	NO				
	4	011B	Water St	☐ ¼ ☐ ½ ☐ ¾	NO				
	5	016A	Stanley Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	6	016B	Stanley Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	7	017A	Russell Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	8	017B	Russell Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	9	017C	Stanley Ave	☐ ¼ ☐ ½ ☐ ¾	NO				
	10	019	Lynn St	☐ ¼ ☐ ½ ☐ ¾	NO				
	11	020	Lynn St	☑ ¼ ☐ ½ ☐ ¾	yes	1	Suck truck	7/5	DP
	12	021A	Delaware Ave	☑ ¼ ☐ ½ ☐ ¾	yes	1	Suck truck	7/5	DP
	13	021B	Delaware Ave	☑ ¼ ☐ ½ ☐ ¾	yes	1	Suck truck	7/5	DP
	14	021C	Delaware Ave	☑ ¼ ☐ ½ ☐ ¾	yes	1	Suck truck	7/5	DP
	15	021D	Delaware Ave	☑ ¼ ☐ ½ ☐ ¾	yes	1	Suck truck	7/5	DP
	16	022A	Lynn St & School St	☐ ¼ ☐ ½ ☐ ¾	NO				
	17	022B	Delaware Ave	☐ ¼ ☐ ½ ☐ ¾					
	18	038	Elm St	☐ ¼ ☐ ½ ☐ ¾	NO				
Phase II	19	041	Brighton St.	☑ ¼ ☐ ½ ☐ ¾	NO	1	Suck truck	7/5	DP
	20	043	Cherokee St.	☑ ¼ ☐ ½ ☐ ¾	NO	1	Suck truck	7/5	DP
	21	101	Jeter Ave & Tombler St	☒ ¼ ☐ ½ ☐ ¾	yes	1	Shovel out	6/28/22	DP
	22	102	Jeter Ave & Tombler St	☒ ¼ ☐ ½ ☐ ¾	yes	1	Shovel out	6/28/22	DP
	23	103	Tombler St & Graham St	☒ ¼ ☐ ½ ☐ ¾	yes	1	Shovel out	6/28/22	DP
	~~24~~	~~104~~	~~Tombler St & Graham St~~	☐ ¼ ☐ ½ ☐ ¾					
	25	105	Water St & Cherry St (Outfall 006)	☐ ¼ ☐ ½ ☐ ¾	NO				
	26	106A	Water St	☐ ¼ ☐ ½ ☐ ¾	NO				
	27	106B	Water St	☐ ¼ ☐ ½ ☐ ¾	NO				
	28	107A	Water St	☐ ¼ ☐ ½ ☐ ¾	NO				
	29	107B	Water St	☐ ¼ ☐ ½ ☐ ¾	NO				
	30	108A	Water St (Outfall 011)	☐ ¼ ☐ ½ ☐ ¾	NO				
	31	108B	Water St (Outfall 011)	☐ ¼ ☐ ½ ☐ ¾	NO				
	32	109	Church St & Garden St	☐ ¼ ☐ ½ ☐ ¾	NO				
	33	110	Church St & Garden St	☐ ¼ ☐ ½ ☐ ¾	NO				
	34	111	Lynn St	☐ ¼ ☐ ½ ☐ ¾	YES	1	Suck truck	7/5	DP
	35	112	Lynn St & Wiley St	☐ ¼ ☐ ½ ☐ ¾	yes	1	Suck truck	7/5	DP
	36	113A	Moravia St	☑ ¼ ☐ ½ ☐ ¾	yes	1	Suck truck	7/5	
	~~37~~	~~113B~~	~~Moravia St~~	☐ ¼ ☐ ½ ☐ ¾					
	38	114	Elm St and Cherry St	☐ ¼ ☐ ½ ☐ ¾	NO				
	39	115A	Frederick St & Cherry St	☑ ¼ ☐ ½ ☐ ¾	yes	1	Suck truck	7/5	DP
	40	115B	Frederick St & Cherry St	☑ ¼ ☐ ½ ☐ ¾	YES	1	Suck truck	7/5	DP
	41	116A	S. Benner Ave & Cherry St	☐ ¼ ☑ ½ ☐ ¾	yes	1	Suck truck	7/5	DP
	42	116B	S. Benner Ave & Cherry St	☐ ¼ ☑ ½ ☐ ¾	yes	1	Suck truck	7/5	DP

Maintenance Codes:

1 - Accumulated Sediment
2 - Trash & Debris
3 - Vegetation Concerns
5 - Impeded Water Flow
6 - Erosion
7 - Structural Repairs
9 - Damaged Pipes
10 - Mosquito/Vector Breeding
11 - Recommend Bag Replacement

Borough of Fountain Hill Stormwater Inlet Filter Bag Monthly Maintenance

Month/Year: _____

4 - Water Quality Concerns

8 - Cover/Frame/Grate

12 - Other

Shaded - Frequent Problems

Weight of Collected Material: 600 **Pounds**

2 manual Hours

3 Street Sweeper Hrs.