

LOWER PAXTON TOWNSHIP AUTHORITY
TUESDAY, MAY 26, 2020 – 7:00 P.M.

ORDER OF BUSINESS

1. CALL TO ORDER – Chairman Blain
2. PLEDGE OF ALLEGIANCE – Mr. Judd
3. APPROVAL OF MINUTES – 2/25/20
4. PUBLIC COMMENT - Comments may be provided using this online form: <https://www.lowerpaxton-pa.gov/FormCenter/Authority-Forms-10/Township-Authority-Board-Public-Comment--54>
5. BOARD MEMBERS' COMMENTS

SANITARY SEWER FUND
6. BUSINESS
 - Resolution 20-04 authorizing and approving the Subsidy Agreement with the Township for the 2020 Bonds – Mr. Wenger, Susquehanna Advisors Group & Mr. Smida, Bond Counsel
 - Action on Amendment #1 to the Paxton Creek Interceptor Agreement- Mr. Weaver
 - Resolution 20-05-01 – 20-05-31 authorizing condemnation of temporary easements for private sewer replacements in the BC-7 mini-basin project – Mr. Weaver
 - Resolution 20-06-01 – 20-06 -41 authorizing condemnation of sanitary/stormwater easements for combined sewer/stormwater replacements in the BC-7 mini-basin project – Mr. Weaver
 - Resolution 20-07 – Authorizing the destruction of certain records – Mr. Weaver
 - Resolution 20-08 – Authorizing the temporary waiving of penalty for late sewer and stormwater fee payments – Mr. Weaver
 - Amendment #1 to the Sewer Maintenance Agreement with Triple Crown – Mr. Weaver
 - Dedication of Developer Installed Sewers – Mr. Weaver
7. TOWNSHIP REPORTS
 - Second Consent Decree/update on current construction projects

- BC-2A/B/C, BC-5B Project – Construction Progress Report
 - Building Sewer Replacements in the SC-2B mini basin
 - Beaver Creek/Nyes Road Interceptor Watertight Manhole Project
- Update on the new Pole Building at the Sewer Operations Facility
 - New GHD LPTA Project Task List
8. ENGINEERS REPORT

STORMWATER FUND

9. BUSINESS
- Presentation by HRG on the draft Stormwater Fee Credit Policy and Review of the Stormwater Fee Rate Alternatives – Kevin Fox, HRG and Mr. Weaver
10. TOWNSHIP REPORTS
- Status of the LPT MS4 General Permit
 - Status of the Stormwater Capital Improvements/2019 Bond Issue
 - BC-2A/B/C, BC-5B Storm Water Project – Construction Progress Report
 - PENNDOT/Municipal Partners Sediment Reduction Project
11. ENGINEERS REPORT
12. ADJORN

NEXT MEETING – June 16, 2020

Be advised that public meetings of the Authority may be recorded for audio and/or video purposes.

LOWER PAXTON TOWNSHIP AUTHORITY
DAUPHIN COUNTY, PENNSYLVANIA

RESOLUTION NO. 20-04

OF THE BOARD OF THE LOWER PAXTON TOWNSHIP AUTHORITY (THE "AUTHORITY") AUTHORIZING AND APPROVING A SUBSIDY AGREEMENT WITH THE TOWNSHIP OF LOWER PAXTON; AUTHORIZING AND APPROVING PROPER OFFICERS OF THE AUTHORITY TO TAKE ALL OTHER PROPER ACTION NECESSARY TO COMPLETE ACTIONS CONTEMPLATED BY THIS RESOLUTION.

WHEREAS, Lower Paxton Township Authority (the "Authority") is a municipal Authority existing under and governed by the Pennsylvania Municipality Authorities Act, 53 Pa. C.S. Ch. 56, as amended and supplemented; and

WHEREAS, The Township of Lower Paxton, Dauphin County, Pennsylvania (the "Township") is a political subdivision existing under the laws of the Commonwealth of Pennsylvania; and

WHEREAS, The Authority heretofore acquired and constructed certain sewer system facilities in and for portions of the Township (the "Sewer System"); and

WHEREAS, The Township heretofore undertook the design, acquisition, construction and implementation of various capital improvements with respect to the Sewer System to, inter alia, eliminate hydraulic overload in the Beaver Creek basin, the Paxton Creek basin and the Spring Creek drainage basin by the replacement of portions of the collection and conveyance system (the "Sewer Remediation Project") to comply with a Second Consent Decree with the Commonwealth of Pennsylvania, Department of Environmental Protection, approved by the Pennsylvania Commonwealth Court on September 13, 2013, as subsequently amended (collectively the "Consent Decree"); and

WHEREAS, The Township has determined, *inter alia*, to undertake the design, acquisition and construction of additional improvements and renovations to the Sewer System to continue implementation of the Sewer Remediation Project, including but not limited to, (a) the replacement or rehabilitation of mini-basin wastewater collection systems in the Beaver Creek, Paxton Creek and Spring Creek drainage basin sewage systems; and (b) related activities that serve to reduce hydraulic overload in the sewage systems (the "Project"); and

WHEREAS, The Township has determined to issue a series of general obligation bonds, to be sold at negotiated sale, to be designated as its General Obligation Bonds, Series of 2020, in a maximum aggregate principal amount not to exceed \$36,000,000 (the "2020 Bonds") to be applied for and towards paying costs and expenses of the Project and paying costs and expenses of issuance of the 2020 Bonds; and

WHEREAS, In connection with the required financing, the Township has agreed to receive a proposal for purchase of the 2020 Bonds (the "Proposal") and to enact an ordinance in accordance with applicable law accepting the Proposal, and authorizing the Project and issuance of the 2020 Bonds (the "Ordinance"); and

WHEREAS, the Authority desires to authorize and approve the Project, and further, desires hereby to request the Township to provide the financing required to complete the Project; and

WHEREAS, The Authority, in connection with said financing, has determined to enter into a Subsidy Agreement with the Township, which shall provide, *inter alia*, that the Authority shall periodically pay certain sums to the Township, derived solely from the receipts and revenues from the Sewer System, for application toward the payment of the portion of the debt service on the 2020 Bonds relating to the Project; and

WHEREAS, the Township has requested the Board of the Authority to, *inter alia*, grant its approval to the Project, the Township's issuance of the 2020 Bonds, the Subsidy Agreement, and further, to indicate its intentions with respect to appropriate and required legal action and proceedings related to the Project and the issuance of the 2020 Bonds.

NOW THEREFORE, BE IT RESOLVED, by the Board of the Lower Paxton Township Authority as follows:

1. The Authority approves the Project and the Township's issuance of the 2020 Bonds therefor, and consents to a portion of the 2020 Bonds, in the aggregate principal amount not to exceed \$36,000,000, being used to pay the costs and expenses of the Project, including related costs of issuance of the 2020 Bonds. The Authority requests the Township to proceed with the financing of the Project, and the Authority approves of the Township accepting the Proposal for the purchase of the 2020 Bonds. If the Township shall hereafter accept the Proposal, it shall provide to the Authority a certified copy of the accepted Proposal which shall be filed with this Resolution in the minutes of the Authority.

The Recitals hereinbefore set forth, and those capitalized terms defined or used therein, are incorporated herein by reference.

2. The Authority shall enter into a Subsidy Agreement with the Township which shall provide, *inter alia*, that the Authority shall periodically pay certain sums to the Township as subsidy payments derived solely from the receipts and revenues from the Sewer System for application toward the payment of that portion of the debt service on the 2020 Bonds attributable to the Project.

The Subsidy Agreement shall be of the form and with the content satisfactory to the Proper Officers of the Authority executing, sealing, attesting and

delivering the same and appropriate to give effect to then known facts, figures and circumstances at the time of execution and delivery thereof. The Authority approves the form of the Subsidy Agreement presented to the Authority at the meeting at which this Resolution is adopted.

Proper Officers of the Authority are authorized and directed to execute, to attest and to seal, as appropriate, and to deliver the Subsidy Agreement immediately upon adoption of this Resolution, provided that the Subsidy Agreement shall not be effective until the Township shall have enacted the Ordinance and executed, sealed, attested and delivered the Subsidy Agreement. Further, Proper Officers of the Authority are authorized and directed to take all action required under the Subsidy Agreement.

3. The Authority expresses its intention to take all necessary and appropriate legal action and proceedings which shall be required to enable the Township to issue and to deliver the 2020 Bonds in accordance with the terms, conditions and provisions of the Proposal, and to enable the Township to satisfy all legal requirements in connection therewith, including, but not limited to, entering into the Subsidy Agreement with the Township, and with respect to the 2020 Bonds.

4. Proper Officers of the Authority are authorized and directed to execute and to deliver such other documents and to do such other things as may be necessary to comply, or to enable the Township to comply with the terms and provisions of the Proposal and as may be necessary or appropriate to comply, or to evidence compliance, with requirements of Section 103(b)(2) and Section 148 of the Internal Revenue Code of 1986, as amended (the "Code"), and with regulations and implementing said sections, and the intent and purpose of this Resolution.

5. Without limiting the generality of the foregoing, the Authority expresses its intention to execute and deliver all appropriate and required documents and to do and to perform any and all other acts appropriate and required on its behalf in order to enable the Township to consummate the Project.

6. The Authority ratifies and confirms all action heretofore taken by the Township in connection with the Project and issuance of the 2020 Bonds.

DULY ADOPTED, this 26th day of May, 2020, by the Board of Lower Paxton Township Authority, in lawful session duly assembled.

LOWER PAXTON TOWNSHIP AUTHORITY

David B. Blain, Chairman

ATTEST:

Chris Judd, Secretary

(SEAL)

CERTIFICATE

I, the undersigned officer of Lower Paxton Township Authority (the “Authority”), certify that the foregoing is a true and correct copy of a Resolution which duly was adopted by affirmative vote of a majority of all members of the Board of the Authority at a meeting of said Board duly convened and held according to law on December 15, 2015, at which meeting a quorum was present; that said Resolution duly has been recorded in the minutes of the Authority; and that said Resolution is in full force and effect, without amendment, alteration or repeal, as of the date of this Certificate.

I further certify that the Board of the Authority met the advance notice and public comment requirements of the Sunshine Act, Act No., 1986-84 of the General Assembly of the Commonwealth of Pennsylvania, approved July 3, 1986, by advertising said meeting, by posting prominently a notice of said meeting at the principal office of the Authority or at the public building in which said meeting was held, and by providing a reasonable opportunity for public comment at said meeting, all in accordance with such Act.

IN WITNESS WHEREOF, I set my hand and affix the official seal of the Authority, this 26th day of May, 2020.

Chris Judd, Secretary

(SEAL)

SUBSIDY AGREEMENT

Dated as of June , 2020

Between

LOWER PAXTON TOWNSHIP AUTHORITY

and

**TOWNSHIP OF LOWER PAXTON,
Dauphin County, Pennsylvania,**

With Respect To The

General Obligation Bonds, Series of 2020

Dated as of June , 2020

of

The Township of Lower Paxton
Dauphin County, Pennsylvania

SUBSIDY AGREEMENT

THIS SUBSIDY AGREEMENT, dated as of June, 2020, between LOWER PAXTON TOWNSHIP AUTHORITY, a municipality authority existing under the Authorities Act of the Commonwealth, and TOWNSHIP OF LOWER PAXTON, Dauphin County, Pennsylvania, a municipality (Township of the Second Class) of the Commonwealth.

WITNESSETH:

WHEREAS, The Authority, with the approval and consent of the Township, heretofore acquired and constructed the Sewer System; and

WHEREAS, The Township heretofore undertook the design, acquisition, construction and implementation of various capital improvements with respect to the Sewer System to, inter alia, eliminate hydraulic overload in the Beaver Creek basin, the Paxton Creek basin and the Spring Creek drainage basin by the replacement of portions of the collection and conveyance system (the “Sewer Remediation Project”) to comply with a Second Consent Decree with the Commonwealth of Pennsylvania, Department of Environmental Protection, approved by the Pennsylvania Commonwealth Court on September 13, 2013, as (collectively the “Consent Decree”); and

WHEREAS, The Township has determined, inter alia, to undertake the design, acquisition and construction of additional improvements and renovations to the Sewer System to continue implementation of the Sewer Remediation Project, including but not limited to the replacement or rehabilitation of mini-basin wastewater collection systems in the Beaver Creek, Paxton Creek and Spring Creek drainage basin sewage systems related activities that serve to reduce hydraulic overload in the sewage systems (the “Project”);

WHEREAS, The Board of Supervisors of the Township contemplates the authorization, sale, issuance and delivery of its General Obligation Bonds, Series of 2020 (the “Series of 2020 Bonds”) with the proceeds to be applied for the purposes of providing funds for and toward the Project and to pay the costs of issuance of the Series of 2020 Bonds (collectively, the “Project”); and

WHEREAS, The Series of 2020 Bonds are to be issued under and pursuant to Ordinance No. 20-04 duly enacted on May 5, 2020 (the “Ordinance”); and

WHEREAS, The Board of Supervisors of the Township has appointed the 2020 Paying Agent as paying agent and sinking fund depository with respect to the 2020 Bonds; and

WHEREAS, The Authority, as an inducement to the Township to undertake the Project and to authorize and issue the Series of 2020 Bonds, desires to enter into this Subsidy Agreement with respect to a portion of the Series of 2020 Bonds, as permitted by the Debt Act; and

WHEREAS, The parties hereto desire to set forth the terms and conditions under and pursuant to which portions of the Debt Service related to a portion of the Series of 2020 Bonds shall be paid by the Township from available Authority funds, to the extent and in the manner provided herein and related matters.

NOW, THEREFORE, The parties hereto, intending to be legally bound hereby, covenant and agree as follows:

ARTICLE I

Definitions

SECTION 1.01. Terms and phrases defined in this Section 1.01, for all purposes of this Subsidy Agreement, as herein defined, shall have the meanings herein specified, unless the context clearly otherwise requires:

“Administrative Expenses” shall mean: compensation and expenses of officers and members of the Board of the Authority; legal, printing, advertising, engineering, architectural and auditing fees and expenses; fees and expenses of any trustee or paying agent of the Authority and any authorized depository of the Authority; and other items of general administrative expense incurred by the Authority, including any amounts required to be rebated or reimbursed to the United States pursuant to any statute or regulatory requirement, all of the foregoing being subject to proper allocation to various projects of the Authority, if applicable.

“Authorities Act” shall mean the Act of the General Assembly of the Commonwealth, known as the “Municipality Authorities Act”, 53 Pa. C.S. Ch. 56, as amended and supplemented, from time to time.

“Authority” shall mean Lower Paxton Township Authority, a municipality authority of the Commonwealth organized by the Board of Supervisors of the Township.

“Board” shall mean the governing body of the Authority.

“Commonwealth” shall mean the Commonwealth of Pennsylvania.

“Consulting Engineers” shall mean an individual, partnership or corporation appointed by the Board of the Authority, qualified to pass upon engineering questions relating to sewage collection, treatment and disposal systems and having a favorable reputation for skill and experience in inspecting construction and operation of sewage collection, treatment and disposal systems. If such person shall be an individual, he shall be a professional engineer duly registered under laws of the Commonwealth. If such person shall be a partnership or corporation, it shall have a partner, officer, employee or member who is a professional engineer duly registered under laws of the Commonwealth.

“Consulting Engineers’ Certificate” shall mean a certificate executed by the Consulting Engineers.

“Debt Act” shall mean the Act of the General Assembly of the Commonwealth known as the “Local Government Unit Debt Act”, 53 Pa.C.S. Chs. 80-82, as amended and supplemented, from time to time.

“Debt Service” shall mean, with respect to any Fiscal Year, the sum of amounts required to be set aside in such Fiscal Year for payment of interest on and principal of the Series of 2020 Bonds and applicable amounts required to be deposited in such Fiscal Year to the credit of the “Mandatory Sinking Fund” established for the 2020 Bonds (such *“Debt Service”* being more particularly described in Schedule A attached hereto and hereby made a part hereof); Provided, however, that *“Debt Service”*, with respect to any Fiscal Year, for the Series of 2020 Bonds shall be determined after projecting operation of the Mandatory Sinking Fund to retirement of such Series of 2020 Bonds to the extent that the same shall be required to be retired and giving effect to reduction in interest payments to be made with respect to such Series of 2020 Bonds by reason of such retirement.

“Fiscal Year” shall mean the fiscal year of the Township as provided by laws of the Commonwealth.

“Officers” shall mean the Chairman or Vice Chairman and Secretary or Assistant Secretary of the Authority.

“Officers’ Certificate” shall mean a certificate executed by the Officers of the Authority.

“Operating Expenses” shall mean all expenses required in operating and maintaining the Sewer System (excluding depreciation), including, in each case, without intending to limit the generality of the foregoing:

A. Expenses of operation, maintenance, repair, alteration, insurance and inspection and any sums payable periodically to any Person pursuant to any agreement relative to collection, transportation, treatment or disposal of Sewage collected in and through the Sewer System;

B. Expenses of managerial, supervisory, administrative, engineering, architectural, legal and auditing services and premiums, fees and expenses associated with any performance, maintenance and other type bonds or similar instruments required by any governmental authority related to operation or maintenance of any part of the Sewer System;

C. Sums payable to any Person, which sums, under sound accounting and/or engineering practice, constitute expenses of operation and maintenance; and

D. All taxes, assessments and charges, including, without intending to limit the generality of the foregoing, income, profits, property, franchise and excise taxes.

“Ordinance” shall mean an Ordinance of the Township, duly enacted on December 1, 2020 authorizing issuance and delivery of the Series of 2020 Bonds.

“2020 Paying Agent” shall mean Manufacturers and Traders Trust Company, a New York state chartered bank with trust powers, having a corporate trust office in the City of Harrisburg, Pennsylvania.

“Receipts and Revenues from the Sewer System” shall mean:

A. All sewer rates and other charges collected by the Authority from owners of improved property which shall be connected to the Sewer System for use thereof and for services rendered by the Authority in connection therewith; and

B. Receipts from Tapping Fees; and

C. All other receipts, revenues and money derived by the Authority or in behalf of the Authority in any manner, from any source, from or in connection with operation of the Sewer System, excepting, however: (1) money derived from tapping, connection, customer facilities or like fees charged by the Authority in those cases and to the extent that the Authority agrees to refund such tapping, connection, customer facilities or like fees or any part thereof to any person who has paid for the construction of any part of the Sewer System which was constructed by the Authority or constructed by such person under the supervision of the Authority as permitted by law; and

(2) Receipts from Assessments, to the extent that such shall be necessary to pay costs and expenses, including legal fees, engineering fees and administrative costs and expenses, of charging and collecting assessments, filing municipal claims or liens therefore and collecting such claims or liens.

“Receipts from Assessments” shall mean all money, including assessments, installments of assessments and interest, penalties and costs, if any, derived by the Authority or in behalf of the Authority from the charging by the Authority, in whole or in part, of the cost of construction and acquisition of certain sewer mains constituting part of the Sewer System against properties benefitted, improved or accommodated by such construction and acquisition.

Money derived by the Authority or in behalf of the Authority under agreements with owners of property whereby such owners shall be obligated to pay money to the Authority in lieu of assessments or which are in the nature of assessments also shall constitute ***“Receipts from Assessments”***.

“Receipts from Tapping Fees” shall mean all money of the Authority derived from the charge of tapping, connection, customer facilities or like fees against owners of property who connect such property with any sewer main constructed or acquired by the Authority and constituting a part of the Sewer System.

Money in the nature of tapping, connection, customer facilities or like fees derived by the Authority under agreements with owners of property who connect such property with the Sewer System, whereby such owners shall be obligated to pay such moneys to the Authority also shall constitute ***“Receipts from Tapping Fees”***.

Notwithstanding the foregoing definition *“Receipts from Tapping Fees”* shall not include money derived from tapping, connection, customer facilities or like fees charged by the Authority in those cases and to the extent that the Authority agrees to refund such tapping, connection, customer facilities or like fees or any part thereof to any person who has paid for the construction of any part of the Sewer System which was constructed by the Authority or constructed by such person under the supervision of the Authority as permitted by law.

“Revenue Fund” shall mean the Revenue Fund created pursuant to Article IV hereof.

“Sewer System” shall mean the existing sanitary sewage collection, treatment and disposal system owned and operated by the Authority, including all related facilities heretofore acquired and/or constructed or hereafter acquired and/or constructed by the Authority, together with all appurtenant facilities and properties which the Authority has acquired or hereafter shall acquire in connection therewith, including all property, real, personal and mixed, rights, powers, licenses, easements, rights of way, whatsoever nature used or useful in connection with such facilities, and together with all additions, extensions, alterations and improvements which may be made or acquired, from time to time. As of any particular time, the *“Sewer System”* means the aforesaid facilities and all property, real, personal, and mixed, rights, powers, licenses, easements, rights of way, privileges, franchises and any and all other property or interests in property of whatsoever nature used or useful in connection with such facilities, and capital additions (including property in the nature of capital additions acquired or constructed from funds wholly or partially contributed or advanced by users, developers or other persons) acquired, owned, made or constructed by or for the Authority; and the *“Sewer System”* without intending to limit the generality of the foregoing, as of any particular time, shall include all buildings, sewage collection, transportation, treatment and

disposal systems and facilities, sewer plants and systems, sewage treatment and disposal facilities, sludge and septage treatment and disposal facilities, basins, machinery, mains, conduits, pipes, pipe lines, interceptor lines, trunk lines, service lines, tanks, shops, pumping stations, ejector stations, force mains, fixtures, engines, boilers, pumps, meters and other equipment, all personal property and all franchises, land rights of way, privileges, easements, licenses, rights and any other interests in real property, all of the foregoing being owned by the Authority and used or useful in connection with the transporting, treating, pumping and/or disposing of sanitary sewage and wastewater.

“Sinking Fund” shall mean the special funds of the Township established under the Ordinance for the benefit of the Series of 2020 Bonds.

“Subsidy Agreement” shall mean this document and all modifications, alterations, amendments and supplements hereto made and delivered in accordance with provisions hereof, which phrase sometimes is referred to in this document by use of such words as “hereto”, “hereby”, “herein”, “hereof”, or “hereunder”.

ARTICLE II

Covenants and Agreements of the Township

SECTION 2.01. The Township certifies that certain portions of the proceeds of the Series of 2020 Bonds shall be made available to the Authority for application for and toward payment of costs and expenses of the Project.

SECTION 2.02. The Township covenants that it has enacted an ordinance requiring owners of certain property located within the boundaries of the

Township to make connection of such property with the Sewer System and providing for the enforcement of such ordinance as maybe permitted by law. The Township also covenants and agrees to keep such ordinance or a subsequent similar ordinance or ordinances requiring such connections in full force and effect continuously during the term hereof and so long as the Authority owns and operates the Sewer System and to enforce the same as may be permitted by applicable law.

SECTION 2.03. The Township confirms and grants to the Authority, its successors and assigns, to the extent necessary or desirable, all easements, rights of way and other rights and privileges necessary and desirable in, along, over and under streets, roads, lanes, courts, cul-de-sacs, alleys, public ways, public squares and other properties of the Township, together with free ingress, egress and regress therein and thereto, along with other persons having interests or rights therein, for use in connection with constructing, replacing, repairing, altering and maintaining the Sewer System; Subject, however, to all applicable rules and regulations from time to time established by resolution or ordinance of the Township with respect thereto.

ARTICLE III

Representations and Warranties of the Township

SECTION 3.01. The Township represents and warrants that:

- A. The Township is a municipality (Township of the Second Class) of the Commonwealth;

B. The Township is possessed of all requisite power and authority under laws of the Commonwealth to enter into and to perform all covenants and agreements contained in this Subsidy Agreement;

C. The Township duly has been authorized to enter into this Subsidy Agreement, pursuant to proper and required official action of its Board of Supervisors, in accordance with laws of the Commonwealth;

D. The Township, in entering into this Subsidy Agreement, is acting in the public interest in connection with preservation and protection of the general health and welfare of inhabitants of the Township and of the Commonwealth;

E. The Township has duly enacted the 2020 Ordinance and has authorized and issued the Series of 2020 Bonds.

ARTICLE IV

Revenue Fund; Application of Funds

SECTION 4.01. The Authority covenants to deposit in the “Revenue Fund”, which Fund is hereby created, all Receipts and Revenues from the Sewer System. The Revenue Fund shall be maintained with an incorporated bank or trust company doing business in the Commonwealth and may be invested by the Authority as provided by applicable laws of the Commonwealth.

Moneys from time to time in the Revenue Fund shall be applied for the purposes set forth in Article V hereof and for any other legally permissible purposes

of the Authority, including, without limiting the generality of the foregoing, transferring any available surplus balance in the Revenue Fund to other funds established by the Authority for legally permissible purposes of the Authority; and, pending such application, such moneys shall be held, in trust, for purposes of this Agreement.

ARTICLE V

Payment of Sums by the Authority

SECTION 5.01. The Authority hereby unconditionally agrees to pay to the Township or its assigns, but only from the Receipts and Revenues from the Sewer System and other legally available funds and only after payment or proper provision for payment of Administrative Expenses and Operating Expenses, the following sums at the following times (or less frequently if paid in advance, subject to Section 5.02 hereof), in immediately available funds:

A. Commencing on or before March 15, 2020, and on or before March 15 of each year thereafter, the amount which, together with other available funds, is required to pay the Debt Service with respect to the Series of 2020 Bonds, as provided in Schedule A hereto, on the next succeeding April 1; and

B. Commencing on or before September 15, 2020, and on or before September 15 of each year thereafter, the amount which, together with other available funds, is required to pay the Debt Service with respect to the Series of 2020 Bonds, as provided in Schedule A hereto, on the next succeeding October 1; and

C. Additionally, the Authority shall also pay to the Township or its assigns, when and as required, all 2020 Paying Agent's fees and expenses reasonably required and fairly attributable to the portion of the Series of 2020 Bonds attributable to the Project, as applicable and appropriate.

SECTION 5.02. The Authority may make payments in advance from time to time, on account of the amounts payable to the Township or its assigns hereunder, in installments, all of which amounts shall be credited against the payments at the time next due. All such payments shall be made directly to the 2020 Paying Agent, as applicable and appropriate, unless otherwise directed by the Township, and shall be deposited by the 2020 Paying Agent, as applicable and appropriate, in the Sinking Fund created under the Ordinance, as applicable and appropriate, in the respective amounts set forth in Schedule A hereto. The Authority may also prepay all or any portion of the amounts payable hereunder at the times, to the extent and upon the same conditions that the Township has the right under the Ordinance to redeem the Series of 2020 Bonds and such amounts shall promptly be applied by the Township toward optional redemption of the Series of 2020 Bonds.

SECTION 5.03. The obligations of the Authority to make the payments hereunder and to perform and observe the other agreements on its part contained herein shall be specifically enforceable and shall be absolute and unconditional, subject only to the limitations contained herein. During the term of this Subsidy Agreement, the Authority: (a) will perform and observe all of its covenants, agreements and obligations contained in this Subsidy Agreement; (b) will perform and observe all of its covenants, agreements and obligations contained in any agreement relating to the Sewer System; and (c) will pay without abatement, diminution or deduction (whether for taxes or otherwise) all amounts required to be

paid hereunder, regardless of any cause or circumstances whatsoever including, without limiting the generality of the foregoing, any defense, set-off, recoupment or counterclaim which the Authority may have or assert against the Township, the 2020 Paying Agent or any other person, any failure of the Township to perform any covenant or agreement contained herein or in any other agreement between the Authority and the Township, any indebtedness or liability at any time owing to the Authority by the Township, any commercial frustration of purpose, any change in the tax or other laws of the United States or of the Commonwealth or any political subdivision of either or any failure of the Township to perform and observe any agreement, whether expressed or implied, or any duty, liability or obligation arising out of or in connection with this Subsidy Agreement, the Ordinance, the Series of 2020 Bonds or the Sewer System. Amounts required to be paid by the Authority hereunder shall be received by the Township as net sums and the Authority covenants to pay all charges against or which might diminish such net sums.

Nothing contained in this Section 5.03 shall be construed to release the Township from the performance of any of the agreements on its part herein contained; in the event the Township should fail to perform any such agreement on its part, the Authority may deem it necessary to compel performance so long as such action does not affect the performance of the obligations of the Authority contained herein. The Authority may, however, at its own cost and expense and in its own name or in the name of the Township, prosecute or defend any action or proceeding or take any other action involving third persons which the Authority deems reasonably necessary in order to secure or protect its rights hereunder, and in such event the Township hereby agrees to cooperate fully with the Authority and to take all actions necessary to effect the substitution of the Authority for the Township in any such action or proceeding if the Authority shall so request.

The Authority hereby waives, to the extent permitted by applicable law, any and all rights which it may now have or which at any time hereafter may be conferred upon it, by statute or otherwise, to terminate or cancel or to limit its liability under this Subsidy Agreement, except in accordance with the express terms hereof.

SECTION 5.04. It is the intent and purpose of this Subsidy Agreement that (1) the Authority shall be obligated to subsidize the full Debt Service on the Series of 2020 Bonds, as specified on Schedule A hereto, (2) and that the Township shall be required to pay over to the 2020 Paying Agent, as applicable and appropriate, only that portion of the Debt Service that cannot be paid from the Receipts and Revenues from the Sewer System or from other money of the Authority that shall be available for the purpose. Therefore, the parties hereto agree that the Township shall be entitled to credits against the Debt Service, which credits shall be equal to the total of: (1) the amount that from time to time shall be paid by the Authority to the 2020 Paying Agent in each Fiscal Year to be available for applicable Debt Service in accordance with terms of the Ordinance; and (2) any other amount that shall be available for Debt Service in accordance with the terms of the Ordinance, respectively. Accordingly, on or before April 1 and on or before October 1, respectively, of each Fiscal Year, the 2020 Paying Agent, after having received from the Authority such money as shall be available for transfer to the 2020 Sinking Fund, as applicable and appropriate, each, as applicable and appropriate, shall notify the Township of any deficiency in the funds that shall be available for transfer to the 2020 Sinking Fund, for Debt Service, and the Township forthwith shall pay over to the 2020 Paying Agent, any amount or amounts required at the time to eliminate such deficiency for Debt Service for such Fiscal Year that would occur on the following April 1 or October 1, as appropriate. If in any Fiscal Year the total Debt Service on the Series of 2020 Bonds shall be in excess of the credits to which the Township is entitled under this Section 5.04 and the Township

has paid over to the 2020 Paying Agent, in its capacity as paying agent for the Series of 2020 Bonds, such amount or amounts as at that time shall be required to discharge, in full, the obligations of the Township under the Ordinance, the Authority agrees to cause to be repaid to the Township the amount or amounts actually advanced to 2020 Paying Agent, in its capacity as paying agent for the Series of 2020 Bonds, from any money that shall be available for that purpose.

SECTION 5.05. In order to facilitate the budgeting of anticipated credits by the Township as provided in Section 5.04, the Authority agrees to furnish to the Township, on or before September 15 of each Fiscal Year, a Consulting Engineers' Certificate with respect to the money anticipated to be available for payment by the Authority to the applicable Paying Agent on or before April 1 and on or before October 1 of the following Fiscal Year for deposit in the 2020 Sinking Fund and to be available for Debt Service.

SECTION 5.06. The obligations of the Authority under this Subsidy Agreement shall be absolute and unconditional, subject to the limitations contained herein, irrespective of any other agreement or instrument to which the Authority shall be a party, and shall remain in full force and effect until the entire principal of and interest on the Series of 2020 Bonds shall have been paid or shall have been provided for to the satisfaction of the 2020 Paying Agent, as applicable and appropriate, and shall not be affected, modified, diminished or impaired upon the happening, from time to time, of any event, including, without limitation, any of the following, whether or not with notice to or consent of the Township, unless such notice or consent is required hereunder:

A. The failure of the Authority to perform any obligation contained in any other agreement, for any reason whatsoever, including, without limiting the generality of the foregoing,

insufficiency of funds, negligence or willful misconduct on the part of the Authority or its agents or independent contractors, legal action of any nature that shall delay construction relating to, or operation of, the Sewer System, labor disputes, war, insurrection, natural catastrophe or laws, rules or regulations of any body, governmental or otherwise, having proper jurisdiction;

B. The failure to give notice to the Authority of the occurrence of a default under terms and provisions of this Subsidy Agreement or the Ordinance;

C. The inaccuracy of the estimate of credits or anticipated credits, as appropriate, required under Section 5.05;

D. The validity, enforceability or termination of the Ordinance;

E. The neglect or failure of the Township or the 2020 Paying Agent to exercise or to preserve any rights or rights of action against any party, person or property;

F. The failure of the Township or the 2020 Paying Agent to have enforced, on prior appropriate occasions, any right or right of action against any party, person or property;

G. The compromise, settlement, release, alteration, indulgence or any other change or modification of any obligation or liability of the Township under the Ordinance, regardless of the nature of such obligation or liability and regardless of the extent to which

such obligation or liability shall have been modified, compromised or otherwise changed;

H. The waiver of the payment, performance or observance by the Authority, the 2020 Paying Agent or the Township of any obligations, covenants or agreements contained in the Ordinance or in this Subsidy Agreement;

I. The extension of the time for payment of the principal of any Series of 2020 Bonds or any part thereof owing or payable under this Subsidy Agreement or of the time for performance of any other obligations, covenants or agreements under or arising out of the Ordinance or this Subsidy Agreement;

J. The modification or amendment (whether material or otherwise) of any obligation, covenant or agreement set forth in the Ordinance;

K. The taking of, or the omission to take, any action referred to in the Ordinance or in this Subsidy Agreement;

L. Any failure, omission or delay on the part of the Township or the 2020 Paying Agent to enforce, to assert or to exercise any right, power or remedy conferred upon or vested in the Township or the 2020 Paying Agent hereunder or under the Ordinance, or to enforce, to assert or to exercise any other right or rights on the part of the Township, the 2020 Paying Agent or any of the holders, at any time or from time to time, of the Series of 2020 Bonds;

M. The voluntary or involuntary liquidation, dissolution, sale or other disposition of all or substantially all the assets, marshalling of assets and liabilities, receivership, insolvency, bankruptcy, assignment for the benefit of creditors, reorganization, arrangement, composition with creditors or readjustments or other similar proceedings affecting the Township or the Authority or any of the assets of either of them, or any allegation or contest of the validity of this Subsidy Agreement in any such proceeding;

N. The release or discharge of the Authority, to the extent permitted by law, from performance or observance of any obligation, covenant or agreement contained in this Subsidy Agreement, by operation of law;

O. The default or failure of the Authority fully to perform any of its obligations set forth in this Subsidy Agreement; or

P. The damage to or partial or total destruction of the Sewer System or the taking of title to or the temporary or permanent use of the Sewer System by any lawful body or authority.

SECTION 5.07. Obligations of the Authority hereunder shall not be affected by any bankruptcy, arrangement for the benefit of creditors, reorganization or other similar proceedings; and the Authority specifically waives any rights or benefits that could accrue to it by reason of any such proceeding and agrees that the same shall not affect its liability or responsibility hereunder, regardless of the effect that such proceedings may have with respect to the obligations of the Township.

SECTION 5.08. Obligations of the Authority hereunder shall not be subject to any setoff, counterclaim or defense resulting from any breach or any alleged breach by the Township or by the 2020 Paying Agent of any obligation to the Authority, whether said obligation arises under this Subsidy Agreement or from any other transaction between the Authority and the Township or the 2020 Paying Agent, regardless of the nature of such transaction.

ARTICLE VI

Limitation of Obligations

SECTION 6.01. Anything to the contrary herein notwithstanding, there shall not be any obligation on the part of the Authority to make any payment except from the Receipts and Revenues from the Sewer System deposited into the Revenue Fund and other legally available funds of the Authority and this Subsidy Agreement shall not constitute a general obligation of the Authority, but shall, pursuant to the Authorities Act, constitute a special obligation of the Authority, payable solely from the Receipts and Revenues from the Sewer System and other legally available funds of the Authority.

ARTICLE VII

Rate Covenant; Budgeting of Debt Service

SECTION 7.01. The Authority covenants that it has adopted resolutions fixing and charging sewer rentals, rates and other charges upon owners of improved property that shall be connected to the Sewer System for use thereof and for services rendered by the Authority in connection therewith. The Authority also covenants to keep such resolutions or subsequent similar resolutions in full force and effect continuously during the time any portion of the Series of 2020 Bonds attributable to the Project shall remain outstanding.

The Authority covenants that such sewer rentals, rates and other charges imposed pursuant to the resolutions in effect at the time shall be at least such that the estimated amounts to be received by the Authority therefrom, together with other estimated Receipts and Revenues from the Sewer System to be received by the Authority, and together with money otherwise estimated to be available under provisions hereof for the purposes, will be sufficient:

A. To pay the reasonable Administrative Expenses of the Authority in connection with the Sewer System in each Fiscal Year, to the extent that such Administrative Expenses otherwise shall not be provided for;

B. To pay the reasonable Operating Expenses of the Authority, in each Fiscal Year, to the extent that such Operating Expenses otherwise shall not be provided for;

C. To meet its obligations and satisfy the requirements of the rate covenant under any indenture or loan agreement; and

D. To provide an amount, in each Fiscal Year, so long as any portion of the Series of 2020 Bonds attributable to the Project shall remain outstanding, equal to at least 110% of the Debt Service, in such Fiscal Year, on the then outstanding portion of the Series of 2020 Bonds attributable to the Project, as set forth on Schedule A hereto, to the extent that such Debt Service otherwise shall not be provided for;

Provided, however, that in determining, for any Fiscal Year, whether or not the Authority is or will be, as applicable, in compliance with the foregoing covenants, the requirements for such Fiscal Year shall be decreased by the

aggregate amount or amounts, if any, of Receipts and Revenues from the Sewer System received by the Authority in any prior Fiscal Year or Fiscal Years that was or were in excess of the aggregate amount or amounts required to be collected in such prior Fiscal Year or Fiscal Years pursuant to the foregoing covenant, but only to the extent that such excess Receipts and Revenues from the Sewer System at such time shall be available in the Revenue Fund for the purposes set forth above.

SECTION 7.02. The Authority covenants to keep on file with the Township and the 2020 Paying Agent, at all times, certified resolutions fixing and charging sewer rentals, rates and other charges upon owners of improved property that shall be connected to the Sewer System for use thereof and for services rendered by the Authority in connection therewith, together, if applicable, with a certified resolution or certified resolutions establishing and adopting rules and regulations, including alterations, amendments and additions thereto and modifications and revisions thereof, as adopted, from time to time, by the Authority, relating to use of the Sewer System, if a separate resolution or resolutions is or are adopted for such purpose, together with an Officers' Certificate, to be filed with the Township on or before December 1 of each Fiscal Year, beginning on or before December 1, 2020, stating that, in the opinion of the Officers, amounts estimated to be received by the Authority from collection of such sewer rentals, rates and other charges, together with other Receipts and Revenues from the Sewer System estimated to be received by the Authority, and together with money otherwise estimated to be available for the purposes, are sufficient to meet debt service requirement on the Series of 2020 Bonds attributable to the Authority.

The Authority covenants to enforce, at all times, the then effective certified resolutions fixing and charging sewer rentals, rates and other charges, duly and promptly to collect such then effective sewer rentals, rates and other charges, and, if such then effective sewer rentals, rates and other charges are not

paid, to take all reasonable and proper steps to enforce such payments, including the filing of proper municipal claims or liens to the extent and in the manner provided by law, from time to time.

The Authority covenants, from time to time, as often as it shall appear necessary, and, in any event, if at any time the Officers shall not file an Officers' Certificate required to be filed under this Section 7.02 because of the inadequacy of Receipts and Revenues from the Sewer System estimated to be received by the Authority, as stated by the Consulting Engineers in writing, to immediately revise its sewer rentals, rates and other charges so as to meet requirements of Section 7.01 and to eliminate any deficiencies of the prior Fiscal Year or Fiscal Years and to file a certified resolution fixing and charging such revised sewer rentals, rates and other charges with the Township and to cause the Consulting Engineers to file with the Township an Officers' Certificate as required by this Section 7.02.

ARTICLE VIII

Additional Covenants and Agreements of the Authority

SECTION 8.01. The Authority covenants and agrees as long as the Series of 2020 Bonds shall remain outstanding: (a) to maintain the Sewer System in good repair and operating condition; (b) to continuously operate the same; (c) to make all necessary and proper repairs, renewals, replacements and improvements to the Sewer System in order to maintain adequate service; (d) to maintain adequate insurance against fire and such other risks as usually are included in extended coverage endorsements and also against such other risks as shall be deemed proper by the Authority, upon physical structures constituting part of the Sewer System upon which such insurance, as a trade practice in operation of sewer

systems, normally is carried; (e) to maintain such public liability insurance, property damage insurance and worker's compensation insurance with respect to the Sewer System and the operation thereof as shall not be unsatisfactory of the Township; (f) to furnish the Township with such reports, statements or audits as the Township reasonably may require with respect to the Sewer System; (g) to continuously maintain all of its agreements, covenants and obligations under any agreement relating to the Sewer System with respect to the operation, maintenance and management of the Sewer System or otherwise; and (h) to maintain its corporate existence and its right to own and operate the Sewer System.

SECTION 8.02. The Authority covenants to furnish to the Township each annual statement relating to the Sewer System, prepared by its certified public accountant and to promptly furnish to the Township its annual budget upon adoption.

SECTION 8.03. The Authority covenants that it shall not take any action or suffer or permit any action to be taken or any condition to exist (inclusive of the application, use or investment of the "proceeds" of the Series of 2020 Bonds) that causes or may cause the interest payable on the Series of 2020 Bonds to be subject to Federal income taxes, or that will cause the Township to be in violation of the Township's covenants under the Ordinance, or which, if the Township were taking such action, would cause the Township to be in violation of the Township's covenants under the Ordinance; and the Authority covenants to take all action, to do all things and to cause all things to be done that may be necessary so that the interest payable on the Series of 2020 Bonds shall be and shall continue to be exempt from Federal income taxes.

ARTICLE IX

Representations and Warranties of the Authority

SECTION 9.01. The Authority makes the following representations and warranties, upon which the Township may rely, and upon which the Authority understands the Township is relying in entering into this Subsidy Agreement, and the Authority covenants and agrees that such representations and warranties shall be deemed to be continuing during the entire life of this Subsidy Agreement:

A. The Authority duly is existing under the Authorities Act and is authorized and empowered to acquire, construct, own, hold and operate the Sewer System;

B. The Authority duly is authorized and empowered to enter into this Subsidy Agreement and to incur the obligations provided for in this Subsidy Agreement;

C. The Authority, by due and legal action of its Board, has authorized execution and delivery of this Subsidy Agreement;

D. There is no litigation, pending or threatened, against the Authority, the outcome of which might affect the ability of the Authority to own or operate the Sewer System or which otherwise might affect the validity of this Subsidy Agreement;

E. There is no statute, rule, regulation, contract or agreement which is binding upon the Authority, which will be contravened by execution and delivery hereof or by performance of any term, condition, agreement or undertaking of the Authority provided for herein; and

F. The Authority has acquired, or the Authority has legal power and authority to acquire and will acquire, at the appropriate

time, good and adequate title in and to all land and interests in land which shall be required for operation and use of the Sewer System.

ARTICLE X

Miscellaneous

SECTION 10.01. No amendment, change, modification, alteration or termination of the Ordinance that would in any way increase the obligations of the Authority under this Subsidy Agreement shall be effective without obtaining the prior written consent of the Authority.

SECTION 10.02. The Authority covenants with the Township that it duly and punctually will perform every covenant and agreement undertaken by the Authority under this Subsidy Agreement.

SECTION 10.03. In the event of default by the Authority in the punctual discharge of its obligations hereunder, the Township shall be entitled to exercise such remedies as are provided under the Debt Act, together with any other remedies that otherwise may be provided at law or in equity, including specific performance, or by other statutes, including but not limited to the remedies provided by Section 18 of the Authorities Act.

SECTION 10.04. No remedy conferred upon or reserved to the Township hereunder is intended to be exclusive of any other available remedy or remedies, but each and every such remedy shall be cumulative and shall be in addition to every other remedy given under this Subsidy Agreement or now or

hereafter existing at law or in equity or by statute. No delay or omission to exercise any right or power accruing upon any default, omission or failure of performance hereunder shall impair any such right or power or shall be construed to be a waiver thereof, but any such right or power may be exercised from time to time and as often as may be deemed expedient. In order to entitle the Township to exercise any remedy reserved in this Subsidy Agreement, it shall not be necessary to give any notice other than such notice as herein expressly may be required. In the event any provision contained in this Subsidy Agreement shall be breached by any party and thereafter duly shall be waived by the other party so empowered to act, such waiver shall be limited to the particular breach so waived and shall not be deemed to waive any other breach hereunder. No waiver, amendment, release or modification hereof shall be established by conduct, custom or dealing, but shall be established solely by an instrument, in writing, duly executed by the appropriate parties.

SECTION 10.05. This Subsidy Agreement constitutes the entire agreement and supersedes all prior agreements and understandings, both written and oral, among the parties with respect to the subject matter hereof; and this Subsidy Agreement may be executed. simultaneously, in multiple counterparts, each of which counterparts shall be deemed to be an original, but all of which counterparts, together, shall constitute but one and the same instrument.

SECTION 10.06. The Authority expressly waives notice, in writing or otherwise, from the Paying Agent of the assignment of sums payable hereunder.

SECTION 10.07. This Subsidy Agreement is entered into by the Authority for the benefit of the Township.

SECTION 10.08. Terms of this Subsidy Agreement may be enforced as to any one or more breaches, either separately or cumulatively.

SECTION 10.09. Provisions of this Subsidy Agreement shall be severable, if any one or more of the phrases, sentences, clauses, Articles, Sections or parts contained in this Subsidy Agreement shall be deemed or declared invalid or unenforceable, such invalidity or unenforceability shall not affect the validity or enforceability of remaining portions of this Subsidy Agreement or any remaining parts thereof.

SECTION 10.10. This Subsidy Agreement may be amended or supplemented, from time to time, by a written document duly signed by the parties hereto; Provided, however, that no amendment or supplement shall be made that shall diminish or discontinue the obligations of the Authority and of the Township hereunder.

SECTION 10.11. This Subsidy Agreement shall be construed in accordance with and shall be governed by laws of the Commonwealth.

IN WITNESS WHEREOF, each of the parties hereto, intending to be legally bound, pursuant to proper authorization of its governing body, causes this Subsidy Agreement to be executed by a duly authorized officer and to be attested by a duly authorized officer and its official or corporate seal to be affixed to this Subsidy Agreement, all as of the day and year first above written.

LOWER PAXTON TOWNSHIP
AUTHORITY

ATTEST:

By: _____
David B. Blain, Chairman

Chris Judd, Secretary

(SEAL)

TOWNSHIP OF LOWER PAXTON,
Dauphin County, Pennsylvania

ATTEST:

By: _____
Chairman of the Board
of Supervisors

Secretary

(SEAL)

Date of Delivery: June , 2020

SCHEDULE A

Debt Service, as such phrase is defined in the Subsidy Agreement to which this Schedule A is attached, on the Series of 2020 Bonds



2020 BOND ISSUE OPTIONS
 LOWER PAXTON TOWNSHIP AUTHORITY
 Option 2

Project Name	Percentage of Project Included in Bond Issue	Start Date	Finish Date	Project Cost (Inflated Dollars)
2016 Bond Issue (Remaining - \$2,078,765)				
BC-2/5B Replacement Project	20%	2019	2022	\$ 640,398
2020 Lining Project	1%	2019	2021	\$ 38,513
BC-7/8 Replacement Project	1%	2019	2024	\$ 202,821
Nyes Road Improvements (PennDOT)	100%	2020	2020	\$ 200,000
Pole Building	100%	2020	2020	\$ 298,400
New TV Rig Purchase	70%	2020	2021	\$ 234,000
Miscellaneous	PennDOT/GHD/LPTA/HRG	-	-	\$ 337,012
2020 Bond Issue - \$29 Million				
BC-2/5B Replacement Project	80%	2019	2022	\$ 2,435,283
2020 Lining Project	99%	2019	2021	\$ 3,185,116
BC-7/8 Replacement Project	76%	2019	2024	\$ 12,238,528
Beaver Creek Meter Chamber	100%	2020	2020	\$ 100,000
New TV Rig Purchase	30%	2020	2021	\$ 96,000
New Vac Trunk Purchase	100%	2020	2020	\$ 290,000
Beaver Creek ROW Clearing / Manhole Assessment	100%	2023	2024	\$ 2,000,200
SC-1 Interceptor Upgrade Project	100%	2023	2023	\$ 239,858
Share of Swatara's WWTP Sludge Dryer Project	100%	2021	2021	\$ 3,420,000
Share of STA's North Branch / Woodridge Interceptor Project	100%	2021	2021	\$ 2,000,000
Miscellaneous	PennDOT/GHD/LPTA/HRG	-	-	\$ 3,076,606
2023 Bond Issue - \$31.8 Million				
BC-7/8 Replacement Project	23%	2019	2024	\$ 3,578,771
PC-2E Replacement Project ⁽¹⁾	100%	2023	2024	\$ 3,731,171
PC-3D Replacement Project	100%	2023	2025	\$ 7,068,018
SC-1G Replacement Project	90%	2023	2026	\$ 8,263,199
PC-1F Replacement Project	100%	2023	2025	\$ 5,303,637
Beaver Creek Force Main Replacement	100%	2025	2026	\$ 639,126
Miscellaneous	PennDOT/GHD/LPTA/HRG	-	-	\$ 3,220,259
2026 Bond Issue - \$3.4 Million				
SC-1G Replacement Project	10%	2023	2026	\$ 882,673
Nyes Road Interceptor Upgrades	1%	2028	2033	\$ 58,706
Miscellaneous	PennDOT/GHD/LPTA/HRG	-	-	\$ 2,432,042
2029 Bond Issue - \$32.6 Million				
Nyes Road Interceptor Upgrades	52%	2028	2033	\$ 5,362,170
Beaver Creek Storage	80%	2030	2032	\$ 24,595,591
Miscellaneous	PennDOT/GHD/LPTA/HRG	-	-	\$ 2,652,498
2032 Bond Issue - \$14.2 Million				
Nyes Road Interceptor Upgrades	47%	2028	2033	\$ 4,761,579
Beaver Creek Storage	20%	2030	2032	\$ 6,386,863
Beaver Creek Interceptor Upgrades	100%	2032	2033	\$ 1,446,846
Miscellaneous	PennDOT/GHD/LPTA/HRG	-	-	\$ 1,652,458
2039 Bond Issue - \$33.3 Million				
Paxton Creek Storage	100%	2038	2040	\$ 30,843,543
Miscellaneous	PennDOT/GHD/LPTA/HRG	-	-	\$ 2,471,480
TOTAL				\$ 146,383,365

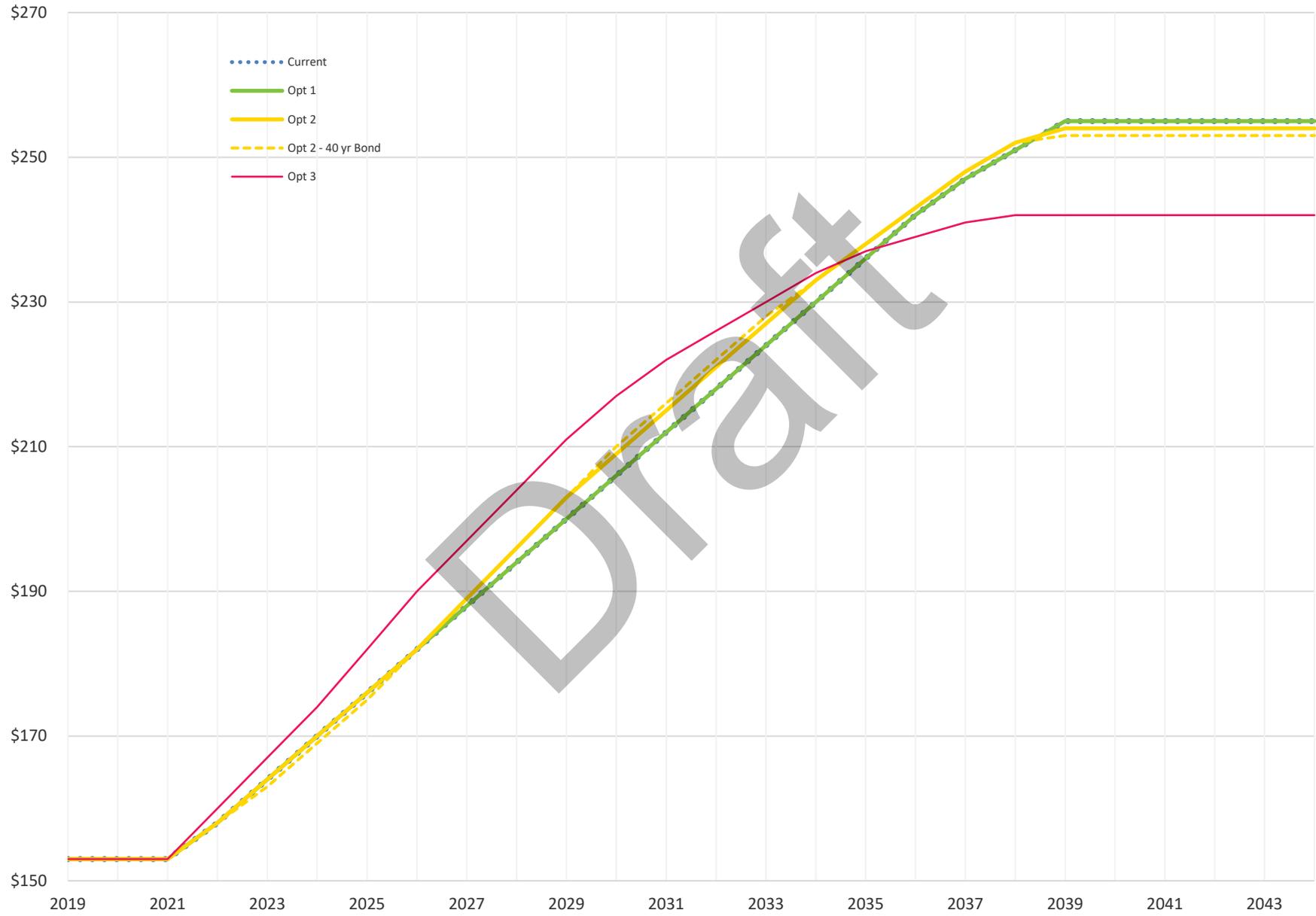
(1) LPTA will need to amend the CAP date to 2024 for this project.

LPTA
EST. REV. AND EXP.

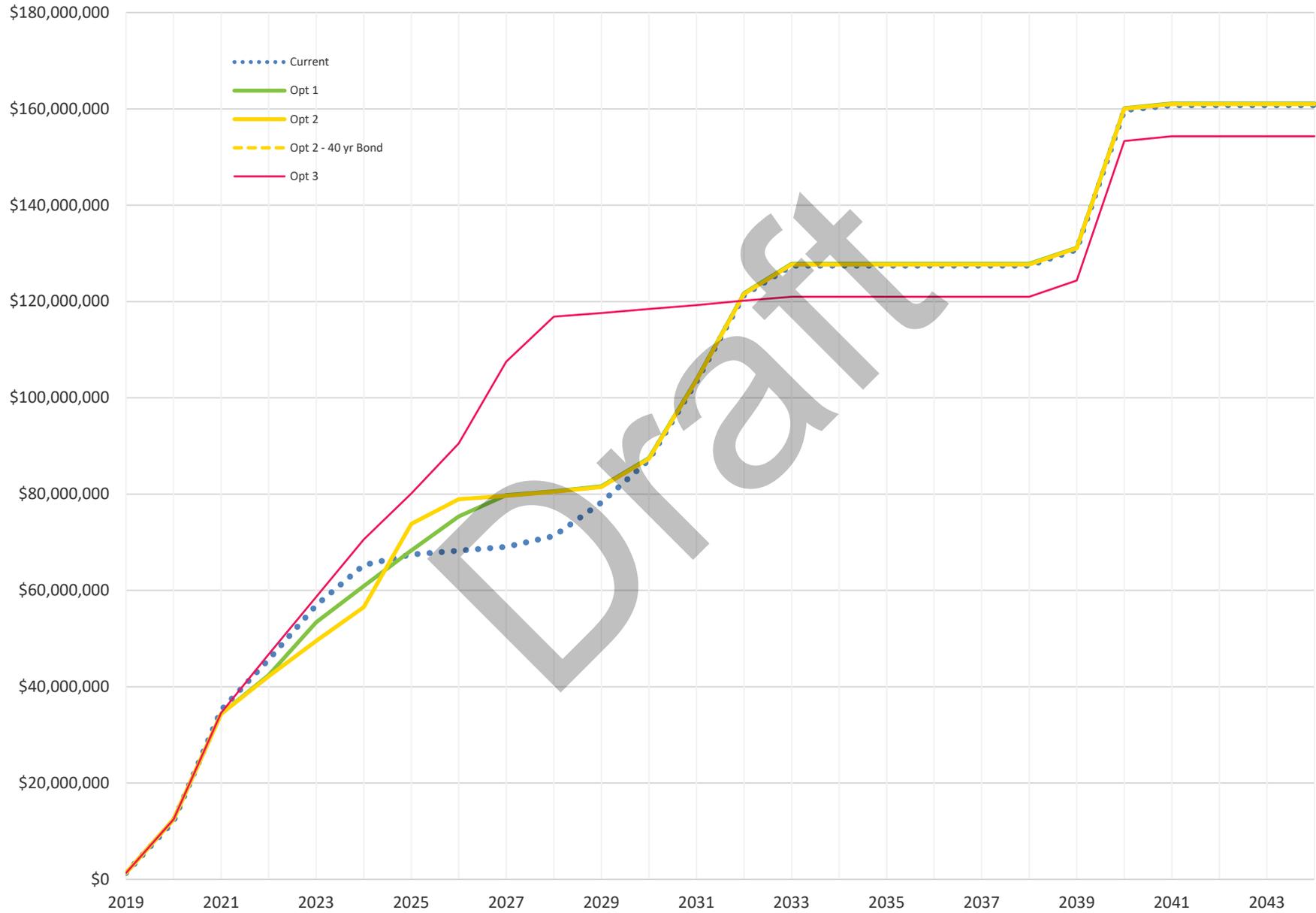
COST COMPARISON SUMMARY

		Current				Opt 1				Opt 2				Opt 3				Opt 2 - 40 yr Bond			
Description		CAP schedule for completion to delay PC storage. Storage in BC to meet CAP date for hydraulic overload. Delayed PC storage 13-years to meet potential growth.				Limit borrowing for 2020 bond to key projects required to meet CAP. Spend at least 32 Million in the 2023 borrowing period to meet SWAP needs.				Minimizes borrowing for 3-year period, then spend at least 32 Million in the next borrowing period				Accelerated schedule to boost economy and maximize use of current low rates				Proposed schedule for completion to delay PC storage. Storage in BC to meet CAP date for hydraulic overload. Delayed PC storage 13-years to meet potential growth.			
2020 Bond		\$	34,100,000	\$	21,900,000	\$	29,000,000	\$	35,300,000	\$	29,000,000	\$	29,000,000	\$	29,000,000	\$	29,000,000	\$	29,000,000	\$	29,000,000
2022 or 2023 Bond		\$	17,400,000	\$	33,500,000	\$	31,800,000	\$	32,200,000	\$	31,800,000	\$	32,200,000	\$	31,800,000	\$	32,200,000	\$	31,800,000	\$	31,800,000
2026 Bond		\$	6,900,000	\$	8,900,000	\$	3,400,000	\$	3,000,000	\$	3,400,000	\$	3,000,000	\$	3,400,000	\$	3,000,000	\$	3,400,000	\$	3,000,000
Future Bonds		\$	86,000,000	\$	80,200,000	\$	80,100,000	\$	37,200,000	\$	80,100,000	\$	37,200,000	\$	80,100,000	\$	37,200,000	\$	80,100,000	\$	37,200,000
		Total Expenditures	Cummulative Total	Rate	Increase	Total Expenditures	Cummulative Total	Rate	Increase	Total Expenditures	Cummulative Total	Rate	Increase	Total Expenditures	Cummulative Total	Rate	Increase	Total Expenditures	Cummulative Total	Rate	Increase
2019	Projected	\$ 1,324,000	\$ 1,324,000	\$ 153	0.0%	\$ 1,324,000	\$ 1,324,000	\$ 153	0.0%	\$ 1,324,000	\$ 1,324,000	\$ 153	0.0%	\$ 1,324,000	\$ 1,324,000	\$ 153	0.0%	\$ 1,324,000	\$ 1,324,000	\$ 153	0.0%
2020	Projected	\$ 10,742,800	\$ 12,066,800	\$ 153	0.0%	\$ 11,107,663	\$ 12,431,663	\$ 153	0.0%	\$ 11,107,663	\$ 12,431,663	\$ 153	0.0%	\$ 11,107,663	\$ 12,431,663	\$ 153	0.0%	\$ 11,107,663	\$ 12,431,663	\$ 153	0.0%
2021	Projected	\$ 23,091,421	\$ 35,158,221	\$ 153	0.0%	\$ 21,937,124	\$ 34,368,787	\$ 153	0.0%	\$ 21,937,124	\$ 34,368,787	\$ 153	0.0%	\$ 22,120,123	\$ 34,551,786	\$ 153	0.0%	\$ 21,937,124	\$ 34,368,787	\$ 153	0.0%
2022	Projected	\$ 10,488,363	\$ 45,647,584	\$ 158	3.3%	\$ 8,025,277	\$ 42,394,064	\$ 158	3.3%	\$ 7,812,472	\$ 42,181,259	\$ 158	3.3%	\$ 12,211,431	\$ 46,763,217	\$ 160	4.6%	\$ 7,812,472	\$ 42,181,259	\$ 158	3.3%
2023	Projected	\$ 11,256,602	\$ 56,904,186	\$ 164	3.8%	\$ 10,990,418	\$ 53,384,482	\$ 164	3.8%	\$ 7,334,836	\$ 49,516,095	\$ 164	3.8%	\$ 11,909,260	\$ 58,672,477	\$ 167	4.4%	\$ 7,334,836	\$ 49,516,095	\$ 163	3.2%
2024	Projected	\$ 8,353,762	\$ 65,257,948	\$ 170	3.7%	\$ 7,538,927	\$ 60,923,409	\$ 170	3.7%	\$ 6,993,613	\$ 56,509,708	\$ 170	3.7%	\$ 11,936,465	\$ 70,608,942	\$ 174	4.2%	\$ 6,993,613	\$ 56,509,708	\$ 169	3.7%
2025	Projected	\$ 2,181,637	\$ 67,439,585	\$ 176	3.5%	\$ 7,370,384	\$ 68,293,793	\$ 176	3.5%	\$ 17,318,462	\$ 73,828,170	\$ 176	3.5%	\$ 9,513,675	\$ 80,122,617	\$ 182	4.6%	\$ 17,318,462	\$ 73,828,170	\$ 175	3.6%
2026	Projected	\$ 793,298	\$ 68,232,883	\$ 182	3.4%	\$ 7,044,656	\$ 75,338,449	\$ 182	3.4%	\$ 5,099,667	\$ 78,927,837	\$ 182	3.4%	\$ 10,392,452	\$ 90,515,069	\$ 190	4.4%	\$ 5,099,667	\$ 78,927,837	\$ 182	4.0%
2027	Projected	\$ 831,120	\$ 69,064,003	\$ 188	3.3%	\$ 4,426,581	\$ 79,765,030	\$ 188	3.3%	\$ 697,500	\$ 79,625,337	\$ 189	3.8%	\$ 16,993,042	\$ 107,508,111	\$ 197	3.7%	\$ 697,500	\$ 79,625,337	\$ 189	3.8%
2028	Projected	\$ 2,209,116	\$ 71,273,119	\$ 194	3.2%	\$ 831,001	\$ 80,596,031	\$ 194	3.2%	\$ 831,001	\$ 80,456,338	\$ 196	3.7%	\$ 9,333,307	\$ 116,841,418	\$ 204	3.6%	\$ 831,001	\$ 80,456,338	\$ 196	3.7%
2029	Projected	\$ 6,958,315	\$ 78,231,434	\$ 200	3.1%	\$ 1,016,933	\$ 81,612,964	\$ 200	3.1%	\$ 1,016,933	\$ 81,473,271	\$ 203	3.6%	\$ 738,731	\$ 117,580,149	\$ 211	3.4%	\$ 1,016,933	\$ 81,473,271	\$ 203	3.6%
2030	Projected	\$ 8,861,307	\$ 87,092,741	\$ 206	3.0%	\$ 5,872,435	\$ 87,485,399	\$ 206	3.0%	\$ 5,872,435	\$ 87,345,706	\$ 209	3.0%	\$ 881,609	\$ 118,461,758	\$ 217	2.8%	\$ 5,872,435	\$ 87,345,706	\$ 210	3.4%
2031	Projected	\$ 16,283,479	\$ 103,376,220	\$ 212	2.9%	\$ 16,283,479	\$ 103,768,878	\$ 212	2.9%	\$ 16,283,479	\$ 103,629,185	\$ 215	2.9%	\$ 773,787	\$ 119,235,545	\$ 222	2.3%	\$ 16,283,479	\$ 103,629,185	\$ 216	2.9%
2032	Projected	\$ 17,939,143	\$ 121,315,363	\$ 218	2.8%	\$ 17,939,143	\$ 121,708,021	\$ 218	2.8%	\$ 17,939,143	\$ 121,568,328	\$ 221	2.8%	\$ 935,299	\$ 120,170,844	\$ 226	1.8%	\$ 17,939,143	\$ 121,568,328	\$ 222	2.8%
2033	Projected	\$ 6,102,209	\$ 127,417,572	\$ 224	2.8%	\$ 6,102,209	\$ 127,810,230	\$ 224	2.8%	\$ 6,102,209	\$ 127,670,537	\$ 227	2.7%	\$ 820,910	\$ 120,991,754	\$ 230	1.8%	\$ 6,102,209	\$ 127,670,537	\$ 228	2.7%
2034	Projected	\$ -	\$ 127,417,572	\$ 230	2.7%	\$ -	\$ 127,810,230	\$ 230	2.7%	\$ -	\$ 127,670,537	\$ 233	2.6%	\$ -	\$ 120,991,754	\$ 234	1.7%	\$ -	\$ 127,670,537	\$ 233	2.2%
2035	Projected	\$ -	\$ 127,417,572	\$ 236	2.6%	\$ -	\$ 127,810,230	\$ 236	2.6%	\$ -	\$ 127,670,537	\$ 238	2.1%	\$ -	\$ 120,991,754	\$ 237	1.3%	\$ -	\$ 127,670,537	\$ 238	2.1%
2036	Projected	\$ -	\$ 127,417,572	\$ 242	2.5%	\$ -	\$ 127,810,230	\$ 242	2.5%	\$ -	\$ 127,670,537	\$ 243	2.1%	\$ -	\$ 120,991,754	\$ 239	0.8%	\$ -	\$ 127,670,537	\$ 243	2.1%
2037	Projected	\$ -	\$ 127,417,572	\$ 247	2.1%	\$ -	\$ 127,810,230	\$ 247	2.1%	\$ -	\$ 127,670,537	\$ 248	2.1%	\$ -	\$ 120,991,754	\$ 241	0.8%	\$ -	\$ 127,670,537	\$ 248	2.1%
2038	Projected	\$ -	\$ 127,417,572	\$ 251	1.6%	\$ -	\$ 127,810,230	\$ 251	1.6%	\$ -	\$ 127,670,537	\$ 252	1.6%	\$ -	\$ 120,991,754	\$ 242	0.4%	\$ -	\$ 127,670,537	\$ 252	1.6%
2039	Projected	\$ 3,366,248	\$ 130,783,820	\$ 255	1.6%	\$ 3,366,248	\$ 131,176,478	\$ 255	1.6%	\$ 3,366,248	\$ 131,036,785	\$ 254	0.8%	\$ 3,366,248	\$ 124,358,002	\$ 242	0.0%	\$ 3,366,248	\$ 131,036,785	\$ 253	0.4%
2040	Projected	\$ 28,970,816	\$ 159,754,636	\$ 255	0.0%	\$ 28,970,816	\$ 160,147,294	\$ 255	0.0%	\$ 28,970,816	\$ 160,007,601	\$ 254	0.0%	\$ 28,970,816	\$ 153,328,818	\$ 242	0.0%	\$ 28,970,816	\$ 160,007,601	\$ 253	0.0%
2041	Projected	\$ 977,959	\$ 160,732,595	\$ 255	0.0%	\$ 977,959	\$ 161,125,253	\$ 255	0.0%	\$ 977,959	\$ 160,985,560	\$ 254	0.0%	\$ 977,959	\$ 154,306,777	\$ 242	0.0%	\$ 977,959	\$ 160,985,560	\$ 253	0.0%
2042	Projected	\$ -	\$ 160,732,595	\$ 255	0.0%	\$ -	\$ 161,125,253	\$ 255	0.0%	\$ -	\$ 160,985,560	\$ 254	0.0%	\$ -	\$ 154,306,777	\$ 242	0.0%	\$ -	\$ 160,985,560	\$ 253	0.0%
2043	Projected	\$ -	\$ 160,732,595	\$ 255	0.0%	\$ -	\$ 161,125,253	\$ 255	0.0%	\$ -	\$ 160,985,560	\$ 254	0.0%	\$ -	\$ 154,306,777	\$ 242	0.0%	\$ -	\$ 160,985,560	\$ 253	0.0%
2044	Projected	\$ -	\$ 160,732,595	\$ 255	0.0%	\$ -	\$ 161,125,253	\$ 255	0.0%	\$ -	\$ 160,985,560	\$ 254	0.0%	\$ -	\$ 154,306,777	\$ 242	0.0%	\$ -	\$ 160,985,560	\$ 253	0.0%

Alternative Rate Comparison



Alternative Cost Comparison



LPTA
ESTIMATED REVENUE AND EXPENSES

CURRENT PROJECT SCHEDULE

		Users and Rates			Acct 36 - Operating Fund					Acct 37 - Capital Projects		
		Rate Increase	Quarterly Rate	Annual Rate Increase	Total Revenue	Total Expenses	Total Reserve	Operating Surplus (Deficit)	Target Reserve at 25%	Total Funding	Total Expenditures	Yr End Bond Fund
2014	Actual	\$ -	\$ 125	0.0%	\$ 14,114,525	\$ 15,518,692	\$ 15,423,297	\$ (1,404,167)	\$ 3,879,673	\$ 25,000,000	\$ 20,318,777	\$ 20,548,221
2015	Actual	\$ 5	\$ 130	4.0%	\$ 14,342,768	\$ 14,472,068	\$ 15,293,997	\$ (129,300)	\$ 3,618,017	\$ 1,150,000	\$ 13,235,293	\$ 6,783,478
2016	Actual	\$ 9	\$ 139	6.8%	\$ 15,596,754	\$ 16,857,204	\$ 14,033,547	\$ (1,260,450)	\$ 4,214,301	\$ 25,000,000	\$ 12,277,435	\$ 18,457,800
2017	Actual	\$ 9	\$ 148	6.6%	\$ 16,879,123	\$ 15,599,263	\$ 15,313,407	\$ 1,279,860	\$ 3,899,816	\$ -	\$ 9,034,239	\$ 9,423,561
2018	Projected	\$ 5	\$ 153	3.4%	\$ 17,781,983	\$ 17,751,961	\$ 16,426,401	\$ 30,023	\$ 4,437,990	\$ -	\$ 4,823,280	\$ 4,823,280
2019	Projected	\$ -	\$ 153	0.0%	\$ 17,498,767	\$ 16,529,860	\$ 19,451,223	\$ 968,907	\$ 4,132,465	\$ -	\$ 1,324,000	\$ 3,499,280
2020	Projected	\$ -	\$ 153	0.0%	\$ 16,900,223	\$ 16,075,181	\$ 20,276,265	\$ 825,042	\$ 4,018,795	\$ 47,378,195	\$ 10,742,800	\$ 40,134,675
2021	Projected	\$ -	\$ 153	0.0%	\$ 17,270,721	\$ 17,718,233	\$ 19,828,753	\$ (447,512)	\$ 4,429,558	\$ -	\$ 23,091,421	\$ 17,043,254
2022	Projected	\$ 5	\$ 158	3.3%	\$ 17,642,499	\$ 18,622,648	\$ 18,848,604	\$ (980,149)	\$ 4,655,662	\$ -	\$ 10,489,363	\$ 6,553,891
2023	Projected	\$ 6	\$ 164	3.8%	\$ 18,336,126	\$ 20,114,523	\$ 17,070,207	\$ (1,778,397)	\$ 5,028,631	\$ 17,400,000	\$ 11,256,602	\$ 12,697,289
2024	Projected	\$ 6	\$ 170	3.7%	\$ 18,981,126	\$ 20,383,346	\$ 15,667,987	\$ (1,402,220)	\$ 5,095,837	\$ -	\$ 8,353,762	\$ 4,343,527
2025	Projected	\$ 6	\$ 176	3.5%	\$ 19,738,732	\$ 20,664,115	\$ 14,742,604	\$ (925,383)	\$ 5,166,029	\$ -	\$ 2,181,637	\$ 2,161,890
2026	Projected	\$ 6	\$ 182	3.4%	\$ 20,534,259	\$ 21,370,743	\$ 13,906,120	\$ (836,484)	\$ 5,342,686	\$ 6,900,000	\$ 793,298	\$ 8,268,592
2027	Projected	\$ 6	\$ 188	3.3%	\$ 21,347,390	\$ 21,669,980	\$ 13,583,530	\$ (322,590)	\$ 5,417,495	\$ -	\$ 831,120	\$ 7,437,472
2028	Projected	\$ 6	\$ 194	3.2%	\$ 22,105,635	\$ 21,971,192	\$ 13,717,973	\$ 134,443	\$ 5,492,798	\$ -	\$ 2,209,116	\$ 5,228,356
2029	Projected	\$ 6	\$ 200	3.1%	\$ 23,114,169	\$ 24,790,267	\$ 12,041,876	\$ (1,676,098)	\$ 6,197,567	\$ 38,500,000	\$ 6,958,315	\$ 36,770,041
2030	Projected	\$ 6	\$ 206	3.0%	\$ 24,080,313	\$ 25,111,902	\$ 11,010,286	\$ (1,031,590)	\$ 6,277,976	\$ -	\$ 8,861,307	\$ 27,908,734
2031	Projected	\$ 6	\$ 212	2.9%	\$ 24,695,277	\$ 25,443,740	\$ 10,261,823	\$ (748,463)	\$ 6,360,935	\$ -	\$ 16,283,479	\$ 11,625,255
2032	Projected	\$ 6	\$ 218	2.8%	\$ 25,356,177	\$ 26,763,647	\$ 8,854,353	\$ (1,407,470)	\$ 6,690,912	\$ 14,200,000	\$ 17,939,143	\$ 7,886,112
2033	Projected	\$ 6	\$ 224	2.8%	\$ 26,100,965	\$ 27,119,405	\$ 7,835,913	\$ (1,018,440)	\$ 6,779,851	\$ -	\$ 6,102,209	\$ 1,783,903
2034	Projected	\$ 6	\$ 230	2.7%	\$ 26,881,335	\$ 27,479,462	\$ 7,237,786	\$ (598,127)	\$ 6,869,866	\$ -	\$ -	\$ 1,783,903
2035	Projected	\$ 6	\$ 236	2.6%	\$ 27,715,021	\$ 27,857,006	\$ 7,095,801	\$ (141,985)	\$ 6,964,251	\$ -	\$ -	\$ 1,783,903
2036	Projected	\$ 6	\$ 242	2.5%	\$ 28,556,265	\$ 28,240,287	\$ 7,411,779	\$ 315,978	\$ 7,060,072	\$ -	\$ -	\$ 1,783,903
2037	Projected	\$ 5	\$ 247	2.1%	\$ 29,289,928	\$ 28,635,181	\$ 8,066,526	\$ 654,747	\$ 7,158,795	\$ -	\$ -	\$ 1,783,903
2038	Projected	\$ 4	\$ 251	1.6%	\$ 29,914,220	\$ 29,046,907	\$ 8,933,838	\$ 867,312	\$ 7,261,727	\$ -	\$ -	\$ 1,783,903
2039	Projected	\$ 4	\$ 255	1.6%	\$ 30,768,207	\$ 31,758,545	\$ 7,943,500	\$ (990,337)	\$ 7,939,636	\$ 33,300,000	\$ 3,366,248	\$ 31,717,655
2040	Projected	\$ -	\$ 255	0.0%	\$ 30,942,310	\$ 27,605,403	\$ 11,280,407	\$ 3,336,907	\$ 6,901,351	\$ -	\$ 28,970,816	\$ 2,746,839
2041	Projected	\$ -	\$ 255	0.0%	\$ 30,884,991	\$ 27,428,846	\$ 14,736,552	\$ 3,456,145	\$ 6,857,211	\$ -	\$ 977,959	\$ 1,768,880
2042	Projected	\$ -	\$ 255	0.0%	\$ 31,045,382	\$ 27,677,481	\$ 18,104,453	\$ 3,367,901	\$ 6,919,370	\$ -	\$ -	\$ 1,768,880
2043	Projected	\$ -	\$ 255	0.0%	\$ 31,213,550	\$ 28,152,786	\$ 21,165,216	\$ 3,060,763	\$ 7,038,197	\$ -	\$ -	\$ 1,768,880
2044	Projected	\$ -	\$ 255	0.0%	\$ 31,382,172	\$ 28,640,130	\$ 23,907,259	\$ 2,742,043	\$ 7,160,032	\$ -	\$ -	\$ 1,768,880

LPTA
ESTIMATED REVENUE AND EXPENSES

CURRENT PROJECT SCHEDULE

	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected
Users and Rates														
Total EDUs	24,804	24,904	25,147	25,350	25,801	26,256	26,280	26,434	26,584	26,727	26,838	26,988	27,138	27,288
New EDUs		100	243	251	251	214	200	154	150	143	111	150	150	150
Rate Increase	\$ -	\$ 6	\$ 9	\$ 9	\$ 9	\$ -	\$ -	\$ -	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6
Quarterly Rate	\$ 125	\$ 130	\$ 139	\$ 148	\$ 153	\$ 153	\$ 153	\$ 153	\$ 158	\$ 164	\$ 170	\$ 182	\$ 182	\$ 188
Annual Rate	\$ 500	\$ 520	\$ 555	\$ 592	\$ 612	\$ 612	\$ 612	\$ 612	\$ 632	\$ 656	\$ 680	\$ 704	\$ 728	\$ 752
Annual Rate Increase	4.0%	4.0%	6.6%	6.6%	3.4%	0.0%	0.0%	0.0%	3.3%	3.8%	3.7%	3.5%	3.4%	3.3%
Acct 36 - Operating Fund														
Revenue														
Interest Income (Acct# 341.01) ⁽²⁾	\$ 3,266	\$ 12,201	\$ 10,345	\$ 25,964	\$ 53,675	\$ 45,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
PLGIT ARM & Bond Interest (Acct# 341.02, 04, 05) ⁽²⁾	\$ 22,756	\$ 38,077	\$ 121,787	\$ 83,532	\$ 155,255	\$ 45,000	\$ 35,000	\$ 428,834	\$ 176,979	\$ 144,384	\$ 127,806	\$ 48,791	\$ 78,229	\$ 117,795
BAB Interest Subsidy (Acct# 341.03)	\$ 868,851	\$ 867,815	\$ 872,128	\$ 871,660	\$ 874,469	\$ 871,659	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Harrisburg City Reimbursement (Acct# 364.01)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 83,520	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sewer Rental Revenue (Acct# 364.10)	\$ 12,903,306	\$ 13,182,239	\$ 14,046,790	\$ 15,484,910	\$ 16,028,300	\$ 15,878,780	\$ 16,053,368	\$ 16,177,608	\$ 16,801,088	\$ 17,532,912	\$ 18,249,840	\$ 18,999,552	\$ 19,756,464	\$ 20,520,576
Tasosino Fees (Acct# 364.11) ⁽¹⁾	\$ 245,205	\$ 218,405	\$ 476,889	\$ 480,320	\$ 480,320	\$ 620,312	\$ 428,000	\$ 309,000	\$ 300,000	\$ 286,000	\$ 222,000	\$ 300,000	\$ 300,000	\$ 300,000
Reimbursements (Acct# 364.12)	\$ 11,076	\$ 15,179	\$ 21,233	\$ 6,950	\$ 10,478	\$ 10,000	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500
Escrow Reimbursements (Acct# 364.13)	\$ 60,515	\$ 8,761	\$ 47,585	\$ 4,252	\$ 3,410	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Storm Sewer Reimbursement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 263,863	\$ 271,779	\$ 279,932	\$ 288,330	\$ 296,800	\$ 305,890	\$ 315,066	\$ 324,518	\$ 334,518
Miscellaneous Income	\$ (450)	\$ -	\$ -	\$ 2,235	\$ 36,885	\$ 106,808	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenue	\$ 14,114,525	\$ 14,342,768	\$ 15,596,754	\$ 16,879,123	\$ 17,781,983	\$ 17,498,767	\$ 16,900,223	\$ 17,270,721	\$ 17,642,499	\$ 18,336,126	\$ 18,981,126	\$ 19,738,732	\$ 20,534,259	\$ 21,347,390
Expenses														
Administrative Expenses (Acct# 36-4001) ⁽⁴⁾	\$ 2,891,215	\$ 2,444,422	\$ 2,859,863	\$ 3,015,893	\$ 3,139,942	\$ 3,053,530	\$ 3,367,885	\$ 3,469,000	\$ 3,571,000	\$ 3,690,000	\$ 3,790,000	\$ 3,904,000	\$ 4,021,000	\$ 4,142,000
Operating Expenses (Acct# 36-4300) ⁽⁵⁾	\$ 8,507,853	\$ 7,338,174	\$ 8,553,035	\$ 7,405,179	\$ 7,923,516	\$ 5,299,229	\$ 5,277,863	\$ 5,024,835	\$ 5,175,589	\$ 5,330,848	\$ 5,490,773	\$ 5,655,496	\$ 5,825,161	\$ 5,999,916
LPTA Expenses (Acct# 429.12 thru 429.34)	\$ 3,256,102	\$ 3,390,158	\$ 3,841,644	\$ 3,609,168	\$ 4,347,542	\$ 383,800	\$ 453,400	\$ 467,002	\$ 481,012	\$ 495,442	\$ 510,306	\$ 525,615	\$ 541,383	\$ 557,625
Swatara Flow Surcharge, Trans & Treat (Acct# 429.35 and 429.36)	\$ 1,644,858	\$ 1,581,344	\$ 1,417,573	\$ 1,401,900	\$ 1,473,124	\$ 1,432,862	\$ 1,377,716	\$ 1,377,847	\$ 1,415,183	\$ 1,461,758	\$ 1,505,611	\$ 1,550,779	\$ 1,597,303	\$ 1,645,222
Harrisburg Trans & Treat (Acct# 429.37)	\$ 3,584,130	\$ 2,353,959	\$ 3,281,127	\$ 2,381,435	\$ 2,089,619	\$ 3,468,567	\$ 3,468,567	\$ 3,165,566	\$ 3,260,533	\$ 3,358,349	\$ 3,459,099	\$ 3,562,872	\$ 3,669,758	\$ 3,779,851
Pendang Trans (Acct# 429.38)	\$ 12,763	\$ 12,715	\$ 12,691	\$ 12,676	\$ 12,731	\$ 14,000	\$ 14,000	\$ 14,420	\$ 14,853	\$ 15,298	\$ 15,757	\$ 16,230	\$ 16,717	\$ 17,218
Debt Service (Acct# 36-4700)	\$ 4,329,624	\$ 4,689,472	\$ 5,244,506	\$ 5,178,492	\$ 6,688,503	\$ 6,688,503	\$ 7,137,011	\$ 7,413,633	\$ 9,224,948	\$ 9,874,068	\$ 11,103,675	\$ 11,103,675	\$ 11,104,619	\$ 11,524,582
Series of 2013 (Acct# 471 & 472.04)	\$ 158,300	\$ 158,300	\$ 152,400	\$ 138,050	\$ 121,300	\$ 1,334,050	\$ 1,437,450	\$ 1,484,400	\$ 1,515,000	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009A (Acct# 471 & 472.07)	\$ 63,093	\$ 47,943	\$ 34,937	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009C (Acct# 471 & 472.09)	\$ 550,800	\$ 275,420	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series D 2009 (Acct# 471 & 472.10)	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010B (Acct# 471 & 472.11)	\$ 57,500	\$ 30,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010C (Acct# 471 & 472.12)	\$ 2,807	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PennVest Interest (Acct# 471 & 472.13)	\$ 208,492	\$ 214,422	\$ 209,900	\$ 226,781	\$ 241,574	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495
Capitalized Interest Expense (Acct# 471 & 472.14)	\$ (514,442)	\$ (298,359)	\$ (189,955)	\$ (189,955)	\$ (128,383)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2014 (Acct# 471 & 472.15)	\$ 860,906	\$ 1,048,173	\$ 1,043,723	\$ 1,035,291	\$ 1,029,555	\$ 1,487,016	\$ 1,486,879	\$ 1,486,872	\$ 1,488,054	\$ 1,490,436	\$ 1,488,036	\$ 1,488,091	\$ 1,485,451	\$ 1,486,887
Series 2015 (Acct# 471 & 472.16)	\$ -	\$ 256,619	\$ 459,025	\$ 458,025	\$ 454,025	\$ 510,375	\$ 494,725	\$ 459,526	\$ 607,776	\$ 2,146,476	\$ 2,146,476	\$ 2,209,075	\$ 2,205,113	\$ 2,204,150
Series 2016 (Acct# 471 & 472.17)	\$ -	\$ -	\$ 795,058	\$ 906,731	\$ 897,032	\$ 1,387,131	\$ 1,387,051	\$ 1,386,432	\$ 1,385,032	\$ 1,387,732	\$ 1,384,532	\$ 1,385,432	\$ 1,386,385	\$ 1,386,919
Pennvest 2019 (Acct# 471 & 472.18)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44,900	\$ 209,766	\$ 209,766	\$ 675,704	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016
Series 2019 (Acct# 471 & 472.19)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,767,293	\$ 1,767,150	\$ 1,762,250	\$ 1,757,550	\$ 1,723,600	\$ 1,700,550	\$ 1,702,550	\$ 1,705,225	\$ 1,705,225
Series of 2020 (Approx. 30 yrs. 3%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,739,756	\$ 1,739,757	\$ 1,739,757	\$ 1,739,757	\$ 1,739,757	\$ 1,739,757	\$ 1,739,757
Series of 2023 (Approx. 30 yrs. 4.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,068,212	\$ 1,068,213	\$ 1,068,213	\$ 1,068,213	\$ 1,068,213
Series of 2026 (Approx. 30 yrs. 4.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 423,601	\$ 423,602
Series of 2029 (Approx. 30 yrs. 5.0%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series of 2032 (Approx. 30 yrs. 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series of 2038 (Approx. 30 yrs. 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other (Acct#4715)	\$ 466,044	\$ 281,423	\$ 255,776	\$ (110,078)	\$ 1,402,886	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenses	\$ 15,516,692	\$ 14,472,068	\$ 16,857,204	\$ 15,599,263	\$ 17,751,061	\$ 16,529,860	\$ 16,075,181	\$ 17,718,233	\$ 18,622,648	\$ 20,114,523	\$ 20,383,346	\$ 20,664,115	\$ 21,370,743	\$ 21,669,980
Reserves														
Operating Surplus (Deficit)	\$ (1,404,167)	\$ (129,300)	\$ (1,260,450)	\$ 1,279,860	\$ 30,023	\$ 968,907	\$ 825,642	\$ (447,512)	\$ (890,149)	\$ (1,778,397)	\$ (1,402,220)	\$ (925,383)	\$ (836,484)	\$ (322,590)
Total Reserve	\$ 15,423,297	\$ 15,293,997	\$ 14,043,547	\$ 15,313,407	\$ 16,426,401	\$ 19,451,223	\$ 20,276,265	\$ 19,828,753	\$ 18,848,604	\$ 17,007,207	\$ 15,667,987	\$ 14,740,620	\$ 13,906,120	\$ 13,583,530
Target Reserve at 25% Admin., Operating and Debt Service Expenses	\$ 3,879,673	\$ 3,618,017	\$ 4,214,301	\$ 3,899,816	\$ 4,437,990	\$ 4,132,465	\$ 4,018,795	\$ 4,429,558	\$ 4,655,662	\$ 5,028,631	\$ 5,095,837	\$ 5,166,029	\$ 5,342,686	\$ 5,417,495
Acct 37 - Capital Projects														
Funding														
Projected Bond Issue Borrowing	\$ 25,000,000		\$ 25,000,000				\$ 34,100,000			\$ 17,400,000			\$ 6,900,000	
Cash		\$ 1,150,000						\$ 13,278,195						
PennVest Reimbursement														
Total Funding	\$ 25,000,000	\$ 1,150,000	\$ 25,000,000	\$ -	\$ -	\$ -	\$ 47,378,195	\$ -	\$ -	\$ 17,400,000	\$ -	\$ -	\$ 6,900,000	\$ -
Expenditures														
General Capital Projects Expenditures (Acct# 37-4900)	\$ 778,484	\$ 43,283	\$ 169,888	\$ 153,214	\$ 1,442,857	\$ 265,000	\$ 398,400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bond Fund Expenditures (Acct# 37-4900)	\$ 19,540,293	\$ 13,192,000	\$ 12,107,547	\$ 8,881,025	\$ 3,380,423	\$ 1,059,000	\$ 10,344,400	\$ 23,091,421	\$ 10,489,363	\$ 11,256,602	\$ 8,353,762	\$ 2,161,637	\$ 793,298	\$ 831,120
Beaver Creek Expenditure	\$ 5,743,086	\$ 9,100,854	\$ 5,788,838	\$ 1,594,626	\$ 733,153	\$ 285,000	\$ 8,388,000	\$ 12,457,271	\$ 6,878,604	\$ 6,662,541	\$ 5,246,657	\$ -	\$ -	\$ -
Paxton Creek Expenditure	\$ 13,300,329	\$ 3,598,876	\$ 5,777,047	\$ 5,383,886	\$ 1,533,741	\$ 65,000	\$ -	\$ -	\$ 3,515,433	\$ 6,744,462	\$ 1,468,891	\$ -	\$ -	\$ -
Spring Creek Expenditure	\$ 16,943	\$ 1,654	\$ -	\$ -	\$ 25,894	\$ 40,000	\$ 814,000	\$ 2,855,429	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 133,620
Other	\$ 479,935	\$ 461,624	\$ 541,662	\$ 1,932,514	\$ 1,057,636	\$ 669,000	\$ 1,142,400	\$ 6,665,069	\$ 1,045,496	\$ 1,078,628	\$ 1,084,843	\$ 712,746	\$ 793,298	\$ 697,500
Total Expenditures	\$ 20,318,777	\$ 13,235,293	\$ 12,277,435	\$ 9,034,239	\$ 4,823,280	\$ 1,324,000	\$ 10,742,800	\$ 23,091,421	\$ 10,489,363	\$ 11,256,602	\$ 8,353,762	\$ 2,161,637	\$ 793,298	\$ 831,12

LPTA
ESTIMATED REVENUE AND EXPENSES

CURRENT PROJECT SCHEDULE

	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
	Projected									
Users and Rates										
Total EDUs	27,438	27,888	27,738	27,888	28,038	28,188	28,338	28,488	28,638	28,788
New EDUs	150	150	150	150	150	150	150	150	150	150
Rate Increase	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6
Quarterly Rate	\$ 194	\$ 200	\$ 205	\$ 212	\$ 218	\$ 224	\$ 230	\$ 236	\$ 242	\$ 247
Annual Rate	\$ 776	\$ 800	\$ 824	\$ 848	\$ 872	\$ 896	\$ 920	\$ 944	\$ 968	\$ 988
Annual Rate Increase	3.2%	3.1%	3.0%	2.9%	2.8%	2.8%	2.7%	2.6%	2.5%	2.1%
Acct 36 - Operating Fund										
Revenue										
Interest Income (Acct# 341.01) ⁽²⁾	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
PLGIT ARM & Bond Interest (Acct# 341.02.04.05) ⁽²⁾	\$ 94,994	\$ 314,988	\$ 485,091	\$ 296,505	\$ 146,335	\$ 72,625	\$ 26,759	\$ 26,759	\$ 26,759	\$ 26,759
BAB Interest Subsidy (Acct# 341.03)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Harrisburg City Reimbursement (Acct# 364.01)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sewer Rental Revenue (Acct# 364.10)	\$ 21,291,888	\$ 22,070,400	\$ 22,856,112	\$ 23,640,024	\$ 24,440,136	\$ 25,256,448	\$ 26,070,960	\$ 26,892,672	\$ 27,721,584	\$ 28,442,544
Taxline Fees (Acct# 364.11) ⁽⁷⁾	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000
Reimbursements (Acct# 364.12)	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500
Escrow Reimbursements (Acct# 364.13)	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Storm Sewer Reimbursement	\$ 334,254	\$ 344,281	\$ 354,610	\$ 365,248	\$ 376,206	\$ 387,492	\$ 399,116	\$ 411,090	\$ 423,423	\$ 436,125
Miscellaneous Income	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenue	\$ 22,105,635	\$ 23,114,169	\$ 24,080,313	\$ 24,695,277	\$ 25,356,177	\$ 26,100,965	\$ 26,881,335	\$ 27,715,021	\$ 28,556,265	\$ 29,289,928
Expenses										
Administrative Expenses (Acct# 36-4001) ⁽⁴⁾	\$ 4,266,000	\$ 4,394,000	\$ 4,526,000	\$ 4,662,000	\$ 4,802,000	\$ 4,946,000	\$ 5,094,000	\$ 5,247,000	\$ 5,404,000	\$ 5,566,000
Operating Expenses (Acct# 36-4206) ⁽⁵⁾	\$ 6,179,314	\$ 6,365,311	\$ 6,556,270	\$ 6,752,958	\$ 6,955,647	\$ 7,164,214	\$ 7,378,140	\$ 7,600,514	\$ 7,828,530	\$ 8,063,385
LPTA Expenses (Acct# 429.12 thru 429.34)	\$ 574,354	\$ 591,584	\$ 609,332	\$ 627,612	\$ 646,440	\$ 665,833	\$ 685,908	\$ 706,382	\$ 727,574	\$ 749,401
Swatara Flow Surcharge, Trans & Treat (Acct# 429.35 and 429.36)	\$ 1,694,579	\$ 1,745,416	\$ 1,797,778	\$ 1,851,712	\$ 1,907,263	\$ 1,964,481	\$ 2,023,415	\$ 2,084,118	\$ 2,146,641	\$ 2,211,041
Harrisburg Trans & Treat (Acct# 429.37)	\$ 3,893,247	\$ 4,010,044	\$ 4,130,345	\$ 4,254,256	\$ 4,381,883	\$ 4,513,340	\$ 4,648,740	\$ 4,788,202	\$ 4,931,848	\$ 5,079,504
Paxton Trans (Acct# 429.38)	\$ 17,735	\$ 18,267	\$ 18,815	\$ 19,379	\$ 19,961	\$ 20,559	\$ 21,176	\$ 21,812	\$ 22,466	\$ 23,140
Debt Service (Acct# 36-4700)	\$ 11,525,279	\$ 14,020,956	\$ 14,029,632	\$ 14,028,782	\$ 15,006,099	\$ 15,009,191	\$ 15,006,322	\$ 15,009,491	\$ 15,007,787	\$ 15,005,795
Series of 2013 (Acct# 471 & 472.04)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009A (Acct# 471 & 472.07)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009C (Acct# 471 & 472.09)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series D 2009 (Acct# 471 & 472.10)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010B (Acct# 471 & 472.11)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010C (Acct# 471 & 472.12)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PennVest Interest (Acct# 471 & 472.13)	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 339,745	\$ -	\$ -	\$ -	\$ -	\$ -
Capitalized Interest Expense (Acct# 471 & 472.14)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2014 (Acct# 471 & 472.15)	\$ 1,485,750	\$ 1,487,375	\$ 1,487,250	\$ 1,490,250	\$ 1,486,375	\$ 1,485,625	\$ 1,487,750	\$ 1,487,625	\$ 1,490,125	\$ 1,490,125
Series 2015 (Acct# 471 & 472.16)	\$ 2,206,375	\$ 1,674,750	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2016 (Acct# 471 & 472.17)	\$ 1,385,471	\$ 1,386,468	\$ 1,385,619	\$ 1,384,169	\$ 1,386,575	\$ 1,387,262	\$ 1,386,668	\$ 1,385,262	\$ 1,387,428	\$ 1,388,066
Pennvest 2019 (Acct# 471 & 472.18)	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016
Series 2019 (Acct# 471 & 472.19)	\$ 1,702,600	\$ 2,232,800	\$ 3,007,200	\$ 3,904,800	\$ 4,246,300	\$ 4,589,200	\$ 4,584,800	\$ 4,589,500	\$ 4,583,100	\$ 4,580,500
Series of 2020 (Approx. 30 yrs. 3%)	\$ 1,739,757	\$ 1,739,757	\$ 1,739,757	\$ 1,739,757	\$ 1,739,757	\$ 1,739,757	\$ 1,739,757	\$ 1,739,757	\$ 1,739,757	\$ 1,739,757
Series of 2022 (Approx. 30 yrs. 4.5%)	\$ 4,069,213	\$ 1,069,213	\$ 1,069,213	\$ 1,069,213	\$ 1,069,213	\$ 1,069,213	\$ 1,069,213	\$ 1,069,213	\$ 1,069,213	\$ 1,069,213
Series of 2026 (Approx. 30 yrs. 4.5%)	\$ 423,602	\$ 423,602	\$ 423,602	\$ 423,602	\$ 423,602	\$ 423,602	\$ 423,602	\$ 423,602	\$ 423,602	\$ 423,602
Series of 2029 (Approx. 30 yrs. 5.0%)	\$ -	\$ 2,504,480	\$ 2,504,480	\$ 2,504,480	\$ 2,504,480	\$ 2,504,480	\$ 2,504,480	\$ 2,504,480	\$ 2,504,480	\$ 2,504,480
Series of 2032 (Approx. 30 yrs. 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ 977,036.53	\$ 977,037	\$ 977,037	\$ 977,037	\$ 977,037	\$ 977,037
Series of 2038 (Approx. 30 yrs. 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other (Acct# 475)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenses	\$ 21,971,192	\$ 24,790,267	\$ 25,114,902	\$ 25,443,740	\$ 26,763,647	\$ 27,119,405	\$ 27,479,462	\$ 27,857,006	\$ 28,240,287	\$ 28,635,181
Reserves										
Operating Surplus (Deficit)	\$ 134,443	\$ (1,676,098)	\$ (1,007,590)	\$ (748,463)	\$ (1,407,470)	\$ (1,018,440)	\$ (598,127)	\$ (141,985)	\$ 315,978	\$ 654,747
Total Reserve	\$ 13,717,973	\$ 12,041,876	\$ 11,010,286	\$ 10,261,823	\$ 8,854,353	\$ 7,835,913	\$ 7,237,786	\$ 7,095,801	\$ 7,411,779	\$ 8,066,526
Target Reserve at 25% Admin., Operating and Debt Service Expenses	\$ 5,492,768	\$ 6,197,567	\$ 6,277,976	\$ 6,360,935	\$ 6,690,912	\$ 6,779,851	\$ 6,869,866	\$ 6,964,251	\$ 7,060,072	\$ 7,158,795
Acct 37 - Capital Projects										
Funding										
Projected Bond Issue Borrowing	\$ -	\$ 38,500,000	\$ -	\$ -	\$ 14,200,000	\$ -	\$ -	\$ -	\$ -	\$ -
Cash	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PennVest Reimbursement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Funding	\$ -	\$ 38,500,000	\$ -	\$ -	\$ 14,200,000	\$ -				
Expenditures										
General Capital Projects Expenditures (Acct# 37-4800)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bond Fund Expenditures (Acct# 37-4900)	\$ 2,209,116	\$ 6,958,315	\$ 8,861,307	\$ 16,283,479	\$ 17,939,143	\$ 6,102,209	\$ -	\$ -	\$ -	\$ -
Bisler Creek Expenditure	\$ -	\$ 287,565	\$ 4,860,557	\$ 15,422,846	\$ 16,957,776	\$ 5,083,011	\$ -	\$ -	\$ -	\$ -
Paxton Creek Expenditure	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Spring Creek Expenditure	\$ 1,386,172	\$ 5,689,727	\$ 2,863,045	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ 822,944	\$ 961,023	\$ 1,137,705	\$ 860,633	\$ 861,367	\$ 1,019,198	\$ -	\$ -	\$ -	\$ -
Total Expenditures	\$ 2,209,116	\$ 6,958,315	\$ 8,861,307	\$ 16,283,479	\$ 17,939,143	\$ 6,102,209	\$ -	\$ -	\$ -	\$ -
Reserves										
Yr End Bond Fund	\$ 5,228,356	\$ 36,770,041	\$ 27,908,734	\$ 11,625,255	\$ 7,886,112	\$ 1,783,903				

Notes:
 (1) EDUs from Chapter 64 report. Estimated at 150/year after 2021. Projected tapping from the tapping fee basis.
 (2) Interest Income Rate: Bank Funds
 Bonds
 (3) Nearly all costs are associated with transmission/beatment costs from Swatara and results in projected annual CRW percent increases from 2017 - 2020 of 48%, 0%, -17.5
 (4) Admin budget is increased from 2017 budget because of not capitalizing some sew
 (5) Revenue and expenses projected from Authority's 2016 Budget as base year.
 (7) Starting 2015 balance based based on the reported reconciled 2014 year-end fund t

LPTA
ESTIMATED REVENUE AND EXPENSES

MODIFIED PROJECT SCHEDULE
Option 1

		Users and Rates			Acct 36 - Operating Fund					Acct 37 - Capital Projects		
		Rate Increase	Quarterly Rate	Annual Rate Increase	Total Revenue	Total Expenses	Total Reserve	Operating Surplus (Deficit)	Target Reserve at 25%	Total Funding	Total Expenditures	Yr End Bond Fund
2014	Actual	\$ -	\$ 125	0.0%	\$ 14,114,525	\$ 15,518,692	\$ 15,423,297	\$ (1,404,167)	\$ 3,879,673	\$ 25,000,000	\$ 20,318,777	\$ 20,548,221
2015	Actual	\$ 5	\$ 130	4.0%	\$ 14,342,768	\$ 14,472,068	\$ 15,293,997	\$ (129,300)	\$ 3,618,017	\$ 1,150,000	\$ 13,235,293	\$ 6,783,478
2016	Actual	\$ 9	\$ 139	6.8%	\$ 15,596,754	\$ 16,857,204	\$ 14,033,547	\$ (1,260,450)	\$ 4,214,301	\$ 25,000,000	\$ 12,277,435	\$ 18,457,800
2017	Actual	\$ 9	\$ 148	6.6%	\$ 16,879,123	\$ 15,599,263	\$ 15,313,407	\$ 1,279,860	\$ 3,899,816	\$ -	\$ 9,034,239	\$ 9,423,561
2018	Projected	\$ 5	\$ 153	3.4%	\$ 17,781,983	\$ 17,751,961	\$ 16,426,401	\$ 30,023	\$ 4,437,990	\$ -	\$ 4,823,280	\$ 4,823,280
2019	Projected	\$ -	\$ 153	0.0%	\$ 17,498,767	\$ 16,529,860	\$ 19,451,223	\$ 968,907	\$ 4,132,465	\$ -	\$ 1,324,000	\$ 3,499,280
2020	Projected	\$ -	\$ 153	0.0%	\$ 16,900,223	\$ 16,075,181	\$ 20,276,265	\$ 825,042	\$ 4,018,795	\$ 35,178,195	\$ 11,107,663	\$ 27,569,812
2021	Projected	\$ -	\$ 153	0.0%	\$ 17,090,906	\$ 17,095,798	\$ 20,271,372	\$ (4,893)	\$ 4,273,950	\$ -	\$ 21,937,124	\$ 5,632,688
2022	Projected	\$ 5	\$ 158	3.3%	\$ 17,741,071	\$ 20,056,830	\$ 17,955,614	\$ (2,315,759)	\$ 5,014,207	\$ 33,500,000	\$ 8,025,277	\$ 31,107,411
2023	Projected	\$ 6	\$ 164	3.8%	\$ 18,575,925	\$ 20,480,492	\$ 16,051,047	\$ (1,904,566)	\$ 5,120,123	\$ -	\$ 10,990,418	\$ 20,116,993
2024	Projected	\$ 6	\$ 170	3.7%	\$ 19,098,533	\$ 20,749,315	\$ 14,400,265	\$ (1,650,782)	\$ 5,187,329	\$ -	\$ 7,538,927	\$ 12,578,066
2025	Projected	\$ 6	\$ 176	3.5%	\$ 19,823,335	\$ 21,030,084	\$ 13,193,516	\$ (1,206,750)	\$ 5,257,521	\$ -	\$ 7,370,384	\$ 5,207,682
2026	Projected	\$ 6	\$ 182	3.4%	\$ 20,548,061	\$ 21,859,495	\$ 11,882,081	\$ (1,311,434)	\$ 5,464,874	\$ 8,900,000	\$ 7,044,656	\$ 7,063,026
2027	Projected	\$ 7	\$ 189	3.8%	\$ 21,411,492	\$ 22,158,732	\$ 11,134,842	\$ (747,239)	\$ 5,539,683	\$ -	\$ 4,426,581	\$ 2,636,445
2028	Projected	\$ 7	\$ 196	3.7%	\$ 22,263,460	\$ 22,459,944	\$ 10,938,358	\$ (196,484)	\$ 5,614,986	\$ -	\$ 831,001	\$ 1,805,444
2029	Projected	\$ 7	\$ 203	3.6%	\$ 23,394,192	\$ 24,895,215	\$ 9,437,334	\$ (1,501,023)	\$ 6,223,804	\$ 32,600,000	\$ 1,016,933	\$ 33,388,511
2030	Projected	\$ 7	\$ 210	3.4%	\$ 24,495,814	\$ 25,216,851	\$ 8,716,298	\$ (721,036)	\$ 6,304,213	\$ -	\$ 5,872,435	\$ 27,516,076
2031	Projected	\$ 7	\$ 217	3.3%	\$ 25,247,147	\$ 25,548,689	\$ 8,414,756	\$ (301,542)	\$ 6,387,172	\$ -	\$ 16,283,479	\$ 11,232,597
2032	Projected	\$ 7	\$ 224	3.2%	\$ 26,023,949	\$ 26,875,476	\$ 7,563,230	\$ (851,527)	\$ 6,718,869	\$ 14,300,000	\$ 17,939,143	\$ 7,593,454
2033	Projected	\$ 6	\$ 230	2.7%	\$ 26,773,087	\$ 27,231,234	\$ 7,105,083	\$ (458,147)	\$ 6,807,809	\$ -	\$ 6,102,209	\$ 1,491,245
2034	Projected	\$ 6	\$ 236	2.6%	\$ 27,557,057	\$ 27,591,291	\$ 7,070,848	\$ (34,234)	\$ 6,897,823	\$ -	\$ -	\$ 1,491,245
2035	Projected	\$ 4	\$ 240	1.7%	\$ 28,166,439	\$ 27,968,835	\$ 7,268,452	\$ 197,604	\$ 6,992,209	\$ -	\$ -	\$ 1,491,245
2036	Projected	\$ 4	\$ 244	1.7%	\$ 28,780,979	\$ 28,352,116	\$ 7,697,316	\$ 428,863	\$ 7,088,029	\$ -	\$ -	\$ 1,491,245
2037	Projected	\$ 4	\$ 248	1.6%	\$ 29,400,690	\$ 28,747,010	\$ 8,350,996	\$ 653,680	\$ 7,186,752	\$ -	\$ -	\$ 1,491,245
2038	Projected	\$ 4	\$ 252	1.6%	\$ 30,025,582	\$ 29,158,736	\$ 9,217,841	\$ 866,845	\$ 7,289,684	\$ -	\$ -	\$ 1,491,245
2039	Projected	\$ 2	\$ 254	0.8%	\$ 30,647,465	\$ 31,870,374	\$ 7,994,933	\$ (1,222,908)	\$ 7,967,593	\$ 33,300,000	\$ 3,366,248	\$ 31,424,997
2040	Projected	\$ -	\$ 254	0.0%	\$ 30,820,968	\$ 27,717,232	\$ 11,098,668	\$ 3,103,736	\$ 6,929,308	\$ -	\$ 28,970,816	\$ 2,454,181
2041	Projected	\$ -	\$ 254	0.0%	\$ 30,763,049	\$ 27,540,675	\$ 14,321,042	\$ 3,222,374	\$ 6,885,169	\$ -	\$ 977,959	\$ 1,476,222
2042	Projected	\$ -	\$ 254	0.0%	\$ 30,922,840	\$ 27,789,310	\$ 17,454,572	\$ 3,133,530	\$ 6,947,328	\$ -	\$ -	\$ 1,476,222
2043	Projected	\$ -	\$ 254	0.0%	\$ 31,090,408	\$ 28,264,615	\$ 20,280,365	\$ 2,825,792	\$ 7,066,154	\$ -	\$ -	\$ 1,476,222
2044	Projected	\$ -	\$ 254	0.0%	\$ 31,258,430	\$ 28,751,959	\$ 22,786,837	\$ 2,506,472	\$ 7,187,990	\$ -	\$ -	\$ 1,476,222

LPTA
ESTIMATED REVENUE AND EXPENSES

MODIFIED PROJECT SCHEDULE
Option 1

	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected
Users and Rates														
Total EDUs	24,804	24,904	25,147	25,350	25,801	26,256	26,280	26,434	26,584	26,727	26,838	26,988	27,138	27,288
New EDUs		100	243	251	251	214	200	154	150	143	111	150	150	150
Rate Increase	\$ -	\$ 9	\$ 9	\$ 9	\$ 9	\$ -	\$ -	\$ -	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 7
Quarterly Rate	\$ 125	\$ 130	\$ 139	\$ 148	\$ 153	\$ 153	\$ 153	\$ 153	\$ 158	\$ 164	\$ 170	\$ 176	\$ 182	\$ 189
Annual Rate	\$ 500	\$ 520	\$ 555	\$ 592	\$ 612	\$ 612	\$ 612	\$ 612	\$ 632	\$ 656	\$ 680	\$ 704	\$ 728	\$ 756
Annual Rate Increase	4.0%	4.0%	6.8%	6.8%	3.4%	0.0%	0.0%	0.0%	3.3%	3.8%	3.7%	3.5%	3.4%	3.8%
Acct 36 - Operating Fund														
Revenue														
Interest Income (Acct# 341.01) ⁽²⁾	\$ 3,266	\$ 12,201	\$ 10,345	\$ 25,964	\$ 53,675	\$ 45,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
PLGIT ARM & Bond Interest (Acct# 341.02, 04, 05) ⁽²⁾	\$ 22,756	\$ 38,077	\$ 121,787	\$ 155,255	\$ 155,255	\$ 45,000	\$ 35,000	\$ 249,019	\$ 275,551	\$ 384,183	\$ 245,213	\$ 133,383	\$ 92,030	\$ 72,746
BAB Interest Subsidy (Acct# 341.03)	\$ 868,851	\$ 867,915	\$ 872,128	\$ 871,660	\$ 874,469	\$ 871,659	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Harrisburg City Reimbursement (Acct# 364.01)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 83,520	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sewer Rental Revenue (Acct# 364.10)	\$ 12,903,306	\$ 13,182,239	\$ 14,046,796	\$ 15,484,910	\$ 16,028,300	\$ 15,878,780	\$ 16,083,360	\$ 16,177,608	\$ 16,801,088	\$ 17,532,912	\$ 18,249,840	\$ 18,999,552	\$ 19,756,464	\$ 20,629,720
Tasolins Fees (Acct# 364.11) ⁽¹⁾	\$ 245,205	\$ 218,405	\$ 476,889	\$ 480,320	\$ 480,320	\$ 620,312	\$ 428,000	\$ 428,000	\$ 300,000	\$ 286,000	\$ 222,000	\$ 300,000	\$ 300,000	\$ 300,000
Reimbursements (Acct# 364.12)	\$ 11,076	\$ 15,179	\$ 21,233	\$ 6,950	\$ 10,478	\$ 4,500	\$ 10,000	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500
Escrow Reimbursements (Acct# 364.13)	\$ 60,515	\$ 8,761	\$ 47,585	\$ 4,252	\$ 3,410	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Storm Sewer Reimbursement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 263,863	\$ 271,779	\$ 279,932	\$ 288,330	\$ 296,800	\$ 305,890	\$ 315,066	\$ 324,518	\$ 334,518
Miscellaneous Income	\$ (450)	\$ -	\$ -	\$ 2,235	\$ 36,085	\$ 106,808	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenue	\$ 14,114,525	\$ 14,342,768	\$ 15,596,754	\$ 16,879,123	\$ 17,781,983	\$ 17,498,767	\$ 16,900,223	\$ 17,090,906	\$ 17,741,071	\$ 18,575,925	\$ 19,098,533	\$ 19,823,335	\$ 20,548,061	\$ 21,411,492
Expenses														
Administrative Expenses (Acct# 36-4001) ⁽⁴⁾	\$ 2,891,215	\$ 2,444,422	\$ 2,859,863	\$ 3,015,893	\$ 3,139,942	\$ 3,053,530	\$ 3,387,885	\$ 3,469,000	\$ 3,573,000	\$ 3,890,000	\$ 3,790,000	\$ 3,904,000	\$ 4,021,000	\$ 4,142,000
Operating Expenses (Acct 36-4300) ⁽⁵⁾	\$ 8,507,853	\$ 7,338,174	\$ 8,553,035	\$ 7,405,179	\$ 7,923,516	\$ 5,299,229	\$ 5,273,883	\$ 5,024,835	\$ 5,175,580	\$ 5,330,848	\$ 5,490,773	\$ 5,655,496	\$ 5,825,161	\$ 5,999,916
LPTA Expenses (Acct# 429.12 thru 429.34)	\$ 3,256,102	\$ 3,390,158	\$ 3,641,644	\$ 3,609,168	\$ 4,347,542	\$ 383,800	\$ 453,400	\$ 467,002	\$ 481,012	\$ 495,442	\$ 510,306	\$ 525,615	\$ 541,383	\$ 557,625
Swatara Flow Surcharge, Trans & Treat (Acct# 429.35 and 429.36)	\$ 1,644,858	\$ 1,581,344	\$ 1,417,573	\$ 1,401,900	\$ 1,437,124	\$ 1,432,862	\$ 1,373,716	\$ 1,377,847	\$ 1,415,983	\$ 1,461,758	\$ 1,505,611	\$ 1,550,779	\$ 1,600,333	\$ 1,645,222
Harrisburg Trans & Treat (Acct# 429.37)	\$ 3,584,130	\$ 2,353,959	\$ 3,281,127	\$ 2,381,435	\$ 2,089,819	\$ 3,468,567	\$ 3,468,567	\$ 3,165,566	\$ 3,260,533	\$ 3,358,349	\$ 3,459,099	\$ 3,562,872	\$ 3,669,758	\$ 3,779,851
Pendang Trans (Acct# 429.38)	\$ 12,763	\$ 12,715	\$ 12,691	\$ 12,676	\$ 12,731	\$ 14,000	\$ 14,000	\$ 14,420	\$ 14,853	\$ 15,298	\$ 15,757	\$ 16,230	\$ 16,717	\$ 17,218
Debt Service (Acct# 36-4700)	\$ 4,329,624	\$ 4,689,472	\$ 5,244,506	\$ 5,178,492	\$ 6,688,503	\$ 6,688,503	\$ 7,413,633	\$ 6,601,863	\$ 11,308,249	\$ 11,469,644	\$ 11,469,644	\$ 11,469,644	\$ 11,469,644	\$ 12,013,334
Series of 2013 (Acct# 471 & 472.04)	\$ 158,300	\$ 158,300	\$ 152,400	\$ 138,050	\$ 121,300	\$ 1,394,050	\$ 1,437,450	\$ 1,484,400	\$ 1,515,000	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009A (Acct# 471 & 472.07)	\$ 63,093	\$ 47,943	\$ 34,937	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009C (Acct# 471 & 472.09)	\$ 550,890	\$ 275,420	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series D 2009 (Acct# 471 & 472.10)	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010B (Acct# 471 & 472.11)	\$ 57,500	\$ 30,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010C (Acct# 471 & 472.12)	\$ 2,807	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PennVest Interest (Acct# 471 & 472.13)	\$ 208,492	\$ 214,422	\$ 209,900	\$ 226,781	\$ 241,574	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495
Capitalized Interest Expense (Acct# 471 & 472.14)	\$ (514,442)	\$ (298,359)	\$ (189,955)	\$ (189,955)	\$ (189,955)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2014 (Acct# 471 & 472.15)	\$ 860,906	\$ 1,048,173	\$ 1,043,723	\$ 1,035,291	\$ 1,029,335	\$ 1,487,016	\$ 1,486,879	\$ 1,486,872	\$ 1,486,054	\$ 1,490,436	\$ 1,488,036	\$ 1,488,091	\$ 1,485,451	\$ 1,486,687
Series 2015 (Acct# 471 & 472.16)	\$ -	\$ 256,619	\$ 459,025	\$ 458,925	\$ 454,925	\$ 510,375	\$ 499,725	\$ 499,526	\$ 607,776	\$ 2,146,476	\$ 2,209,075	\$ 2,205,113	\$ 2,204,150	\$ 2,204,150
Series 2016 (Acct# 471 & 472.17)	\$ -	\$ -	\$ 795,058	\$ 906,731	\$ 897,032	\$ 1,387,131	\$ 1,387,051	\$ 1,386,432	\$ 1,385,032	\$ 1,387,732	\$ 1,384,532	\$ 1,385,432	\$ 1,386,385	\$ 1,386,919
PennVest 2019 (Acct# 471 & 472.18)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44,900	\$ 209,766	\$ 209,766	\$ 675,704	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016
Series 2019 (Acct# 471 & 472.19)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,787,293	\$ 1,787,150	\$ 1,782,250	\$ 1,757,550	\$ 1,723,600	\$ 1,700,550	\$ 1,702,550	\$ 1,705,225
Series of 2020 (Approx. 30 yrs. 3%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,117,322	\$ 11,117,322	\$ 11,117,322	\$ 11,117,322	\$ 11,117,322	\$ 11,117,322
Series of 2023 (Approx. 30 yrs. 4.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,056,617	\$ 2,056,617	\$ 2,056,617	\$ 2,056,617	\$ 2,056,617	\$ 2,056,617
Series of 2026 (Approx. 30 yrs. 4.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 546,384.73
Series of 2029 (Approx. 30 yrs. 5.0%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series of 2032 (Approx. 30 yrs. 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series of 2038 (Approx. 30 yrs. 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other (Acct#4715)	\$ 466,044	\$ 281,423	\$ 255,776	\$ (110,078)	\$ 1,402,886	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenses	\$ 15,516,692	\$ 14,472,068	\$ 16,857,204	\$ 15,599,263	\$ 17,751,061	\$ 16,529,860	\$ 16,075,181	\$ 17,095,798	\$ 20,056,830	\$ 20,480,492	\$ 20,749,315	\$ 21,030,084	\$ 21,859,495	\$ 22,158,732
Reserves														
Operating Surplus (Deficit)	\$ (1,404,167)	\$ (129,300)	\$ (1,260,450)	\$ 1,279,860	\$ 30,023	\$ 968,907	\$ 826,042	\$ (4,893)	\$ (2,315,759)	\$ (1,904,566)	\$ (1,650,782)	\$ (1,206,570)	\$ (1,311,434)	\$ (747,239)
Total Reserve	\$ 15,423,297	\$ 15,293,997	\$ 14,043,547	\$ 15,313,407	\$ 16,426,401	\$ 19,451,223	\$ 20,276,265	\$ 20,271,372	\$ 17,955,614	\$ 16,051,047	\$ 14,400,265	\$ 13,193,516	\$ 11,882,081	\$ 11,134,842
Target Reserve at 25% Admin., Operating and Debt Service Expenses	\$ 3,879,673	\$ 3,618,017	\$ 4,214,301	\$ 3,899,816	\$ 4,437,990	\$ 4,132,465	\$ 4,018,795	\$ 4,273,950	\$ 5,014,207	\$ 5,120,123	\$ 5,187,329	\$ 5,257,521	\$ 5,464,874	\$ 5,539,683
Acct 37 - Capital Projects														
Funding														
Projected Bond Issue Borrowing	\$ 25,000,000		\$ 25,000,000				\$ 21,900,000		\$ 33,500,000				\$ 8,900,000	
Cash		\$ 1,150,000					\$ 13,278,195							
PennVest Reimbursement														
Total Funding	\$ 25,000,000	\$ 1,150,000	\$ 25,000,000	\$ -	\$ -	\$ -	\$ 35,178,195	\$ -	\$ 33,500,000	\$ -	\$ -	\$ -	\$ 8,900,000	\$ -
Expenditures														
General Capital Projects Expenditures (Acct# 37-4900)	\$ 778,484	\$ 43,283	\$ 169,888	\$ 183,214	\$ 1,442,857	\$ 265,000	\$ 398,400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bond Fund Expenditures (Acct# 37-4900)	\$ 19,540,293	\$ 13,192,000	\$ 12,107,547	\$ 8,881,025	\$ 3,380,423	\$ 1,059,000	\$ 10,789,263	\$ 21,937,124	\$ 8,025,277	\$ 10,990,418	\$ 7,538,927	\$ 7,370,384	\$ 7,044,656	\$ 4,426,581
Beaver Creek Expenditure	\$ 5,743,086	\$ 9,100,854	\$ 5,788,838	\$ 1,564,626	\$ 733,153	\$ 285,000	\$ 8,435,779	\$ 12,457,271	\$ 6,848,261	\$ 6,108,228	\$ 524,657	\$ 24,592	\$ 614,534	\$ -
Paxton Creek Expenditure	\$ 13,300,329	\$ 3,598,876	\$ 5,777,047	\$ 5,383,886	\$ 1,533,741	\$ 65,000	\$ -	\$ -	\$ 2,128,805	\$ 3,819,614	\$ 5,928,701	\$ 6,007,091	\$ 12,713	\$ -
Spring Creek Expenditure	\$ 16,943	\$ 1,654	\$ -	\$ -	\$ 25,894	\$ 40,000	\$ 608,058	\$ 2,855,429	\$ -	\$ 42,617	\$ 426,482	\$ 5,360,439	\$ 3,590,710	\$ -
Other	\$ 479,935	\$ 481,624	\$ 541,662	\$ 1,932,514	\$ 1,057,636	\$ 669,000	\$ 1,665,426	\$ 6,624,424	\$ 964,211	\$ 1,062,576	\$ 1,042,952	\$ 912,219	\$ 1,056,970	\$ 835,871
Total Expenditures	\$ 20,318,777	\$ 13,235,293	\$ 12,227,435	\$ 9,034,239	\$ 4,823,280	\$ 1,324,000	\$ 11,107,663	\$ 21,937,124	\$ 8,025,277	\$ 10,990,418	\$ 7,538,927			

LPTA
ESTIMATED REVENUE AND EXPENSES

MODIFIED PROJECT SCHEDULE
Option 1

	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
	Projected									
Users and Rates										
Total EDUs	27,438	27,588	27,738	27,888	28,038	28,188	28,338	28,488	28,638	28,788
New EDUs	150	150	150	150	150	150	150	150	150	150
Rate Increase	\$ 7	\$ 7	\$ 7	\$ 7	\$ 7	\$ 6	\$ 6	\$ 4	\$ 4	\$ 4
Quarterly Rate	\$ 196	\$ 203	\$ 210	\$ 217	\$ 224	\$ 230	\$ 236	\$ 243	\$ 244	\$ 248
Annual Rate	\$ 784	\$ 812	\$ 840	\$ 868	\$ 896	\$ 920	\$ 944	\$ 960	\$ 976	\$ 992
Annual Rate Increase	3.7%	3.6%	3.4%	3.3%	3.2%	2.7%	2.6%	1.7%	1.7%	1.6%
Acct 36 - Operating Fund										
Revenue										
Interest Income (Acct# 341.01) (2)	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
PLGIT ARM & Bond Interest (Acct# 341.02.04.05) (2)	\$ 33,314	\$ 263,955	\$ 456,784	\$ 290,615	\$ 141,195	\$ 68,135	\$ 22,369	\$ 22,369	\$ 22,369	\$ 22,369
BAB Interest Subsidy (Acct# 341.03)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Harrisburg City Reimbursement (Acct# 364.01)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sewer Rental Revenue (Acct# 364.10)	\$ 21,511,392	\$ 22,401,456	\$ 23,299,520	\$ 24,206,764	\$ 25,122,048	\$ 25,932,960	\$ 26,751,072	\$ 27,548,480	\$ 27,950,688	\$ 28,557,696
Taxation Fees (Acct# 364.11) (7)	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000
Reimbursements (Acct# 364.12)	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500
Escrow Reimbursements (Acct# 364.13)	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Storm Sewer Reimbursement	\$ 334,254	\$ 344,281	\$ 354,610	\$ 365,248	\$ 376,206	\$ 387,492	\$ 399,116	\$ 411,090	\$ 423,423	\$ 436,125
Miscellaneous Income	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenue	\$ 22,263,460	\$ 23,394,192	\$ 24,495,814	\$ 25,247,147	\$ 26,023,949	\$ 26,773,087	\$ 27,557,057	\$ 28,166,439	\$ 28,760,979	\$ 29,400,690
Expenses										
Administrative Expenses (Acct# 36-4001) (4)	\$ 4,266,000	\$ 4,394,000	\$ 4,526,000	\$ 4,662,000	\$ 4,802,000	\$ 4,946,000	\$ 5,094,000	\$ 5,247,000	\$ 5,404,000	\$ 5,566,000
Operating Expenses (Acct 36-4206) (5)	\$ 6,179,314	\$ 6,365,311	\$ 6,556,270	\$ 6,752,958	\$ 6,955,647	\$ 7,164,214	\$ 7,378,140	\$ 7,600,514	\$ 7,828,530	\$ 8,063,385
LPTA Expenses (Acct# 429.12 thru 429.34)	\$ 574,354	\$ 591,584	\$ 609,332	\$ 627,612	\$ 646,440	\$ 665,833	\$ 685,908	\$ 706,382	\$ 727,574	\$ 749,401
Swatara Flow Surcharge, Trans & Treat (Acct# 429.35 and 429.36)	\$ 1,694,579	\$ 1,745,416	\$ 1,797,778	\$ 1,851,712	\$ 1,907,263	\$ 1,964,481	\$ 2,023,415	\$ 2,084,118	\$ 2,146,641	\$ 2,211,041
Harrisburg Trans & Treat (Acct# 429.37)	\$ 3,893,247	\$ 4,010,044	\$ 4,130,345	\$ 4,254,256	\$ 4,381,883	\$ 4,513,340	\$ 4,648,740	\$ 4,788,202	\$ 4,931,848	\$ 5,079,504
Paxton Trans (Acct# 429.38)	\$ 17,735	\$ 18,267	\$ 18,815	\$ 19,379	\$ 19,961	\$ 20,559	\$ 21,176	\$ 21,812	\$ 22,466	\$ 23,140
Debt Service (Acct# 36-4700)	\$ 12,914,031	\$ 14,136,904	\$ 14,134,980	\$ 14,133,708	\$ 15,117,928	\$ 15,121,020	\$ 15,118,151	\$ 15,121,320	\$ 15,119,586	\$ 15,117,624
Series of 2013 (Acct# 471 & 472.04)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009A (Acct# 471 & 472.07)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009C (Acct# 471 & 472.09)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series D 2009 (Acct# 471 & 472.10)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010B (Acct# 471 & 472.11)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010C (Acct# 471 & 472.12)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PennVest Interest (Acct# 471 & 472.13)	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 339,745	\$ -	\$ -	\$ -	\$ -	\$ -
Capitalized Interest Expense (Acct# 471 & 472.14)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2014 (Acct# 471 & 472.15)	\$ 1,485,750	\$ 1,487,375	\$ 1,487,250	\$ 1,490,250	\$ 1,486,375	\$ 1,485,625	\$ 1,487,750	\$ 1,487,625	\$ 1,490,125	\$ 1,490,125
Series 2015 (Acct# 471 & 472.16)	\$ 2,206,375	\$ 1,674,750	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2016 (Acct# 471 & 472.17)	\$ 1,385,471	\$ 1,386,468	\$ 1,385,619	\$ 1,384,169	\$ 1,386,575	\$ 1,387,262	\$ 1,386,668	\$ 1,385,262	\$ 1,387,428	\$ 1,388,066
Pennvest 2019 (Acct# 471 & 472.18)	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016
Series 2019 (Acct# 471 & 472.19)	\$ 1,702,600	\$ 2,232,800	\$ 3,907,200	\$ 3,904,800	\$ 4,246,300	\$ 4,589,200	\$ 4,584,800	\$ 4,589,500	\$ 4,583,100	\$ 4,580,500
Series of 2020 (Approx. 30 yrs, 3%)	\$ 1,117,322	\$ 1,117,322	\$ 1,117,322	\$ 1,117,322	\$ 1,117,322	\$ 1,117,322	\$ 1,117,322	\$ 1,117,322	\$ 1,117,322	\$ 1,117,322
Series of 2021 (Approx. 30 yrs, 4.5%)	\$ 2,056,617	\$ 2,056,617	\$ 2,056,617	\$ 2,056,617	\$ 2,056,617	\$ 2,056,617	\$ 2,056,617	\$ 2,056,617	\$ 2,056,617	\$ 2,056,617
Series of 2026 (Approx. 30 yrs, 4.5%)	\$ 546,385	\$ 546,385	\$ 546,385	\$ 546,385	\$ 546,385	\$ 546,385	\$ 546,385	\$ 546,385	\$ 546,385	\$ 546,385
Series of 2029 (Approx. 30 yrs, 5.0%)	\$ -	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677
Series of 2032 (Approx. 30 yrs, 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ 983,917	\$ 983,917	\$ 983,917	\$ 983,917	\$ 983,917	\$ 983,917
Series of 2038 (Approx. 30 yrs, 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other (Acct# 475)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenses	\$ 22,459,944	\$ 24,895,215	\$ 25,216,851	\$ 25,548,689	\$ 26,875,476	\$ 27,231,234	\$ 27,591,291	\$ 27,968,835	\$ 28,352,116	\$ 28,747,010
Reserves										
Operating Surplus (Deficit)	\$ (196,484)	\$ (1,501,023)	\$ (721,036)	\$ (301,542)	\$ (851,527)	\$ (458,147)	\$ (34,234)	\$ 197,604	\$ 428,863	\$ 653,680
Total Reserve	\$ 10,938,358	\$ 9,437,334	\$ 8,716,238	\$ 8,414,756	\$ 7,563,230	\$ 7,105,083	\$ 7,070,848	\$ 7,268,452	\$ 7,697,316	\$ 8,350,996
Target Reserve at 25% Admin., Operating and Debt Service Expenses	\$ 5,614,866	\$ 6,223,804	\$ 6,304,213	\$ 6,387,172	\$ 6,718,869	\$ 6,807,809	\$ 6,897,823	\$ 6,992,209	\$ 7,088,029	\$ 7,186,752
Acct 37 - Capital Projects										
Funding										
Projected Bond Issue Borrowing	\$ -	\$ 32,600,000	\$ -	\$ -	\$ 14,300,000	\$ -	\$ -	\$ -	\$ -	\$ -
Cash	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PennVest Reimbursement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Funding	\$ -	\$ 32,600,000	\$ -	\$ -	\$ 14,300,000	\$ -				
Expenditures										
General Capital Projects Expenditures (Acct# 37-4800)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bond Fund Expenditures (Acct# 37-4900)	\$ 831,001	\$ 1,016,933	\$ 5,872,435	\$ 16,283,479	\$ 17,939,143	\$ 6,102,209	\$ -	\$ -	\$ -	\$ -
Bleaker Creek Expenditure	\$ -	\$ 287,565	\$ 4,860,557	\$ 15,422,846	\$ 16,957,776	\$ 5,083,011	\$ -	\$ -	\$ -	\$ -
Paxton Creek Expenditure	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Spring Creek Expenditure	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ 831,001	\$ 729,368	\$ 1,011,878	\$ 860,633	\$ 981,367	\$ 1,019,198	\$ -	\$ -	\$ -	\$ -
Total Expenditures	\$ 831,001	\$ 1,016,933	\$ 5,872,435	\$ 16,283,479	\$ 17,939,143	\$ 6,102,209	\$ -	\$ -	\$ -	\$ -
Reserves										
Yr End Bond Fund	\$ 1,805,444	\$ 33,388,511	\$ 27,516,076	\$ 11,232,597	\$ 7,593,454	\$ 1,491,245				

Notes:
 (1) EDUs from Chapter 64 report. Estimated at 150/year after 2021. Projected tapping from the tapping fee basis.
 (2) Interest Income Rate: Bank Funds
 Bonds
 (3) Nearly all costs are associated with transmission/beatment costs from Swatara and results in projected annual CRW percent increases from 2017 - 2020 of 48%, 0%, -17.5
 (4) Admin budget is increased from 2017 budget because of not capitalizing some sew
 (5) Revenue and expenses projected from Authority's 2016 Budget as base year.
 (7) Starting 2015 balance based based on the reported reconciled 2014 year-end fund t

LPTA
ESTIMATED REVENUE AND EXPENSES

MODIFIED PROJECT SCHEDULE
Option 2

		Users and Rates			Acct 36 - Operating Fund					Acct 37 - Capital Projects		
		Rate Increase	Quarterly Rate	Annual Rate Increase	Total Revenue	Total Expenses	Total Reserve	Operating Surplus (Deficit)	Target Reserve at 25%	Total Funding	Total Expenditures	Yr End Bond Fund
2014	Actual	\$ -	\$ 125	0.0%	\$ 14,114,525	\$ 15,518,692	\$ 15,423,297	\$ (1,404,167)	\$ 3,879,673	\$ 25,000,000	\$ 20,318,777	\$ 20,548,221
2015	Actual	\$ 5	\$ 130	4.0%	\$ 14,342,768	\$ 14,472,068	\$ 15,293,997	\$ (129,300)	\$ 3,618,017	\$ 1,150,000	\$ 13,235,293	\$ 6,783,478
2016	Actual	\$ 9	\$ 139	6.8%	\$ 15,596,754	\$ 16,857,204	\$ 14,033,547	\$ (1,260,450)	\$ 4,214,301	\$ 25,000,000	\$ 12,277,435	\$ 18,457,800
2017	Actual	\$ 9	\$ 148	6.6%	\$ 16,879,123	\$ 15,599,263	\$ 15,313,407	\$ 1,279,860	\$ 3,899,816	\$ -	\$ 9,034,239	\$ 9,423,561
2018	Projected	\$ 5	\$ 153	3.4%	\$ 17,781,983	\$ 17,751,961	\$ 16,426,401	\$ 30,023	\$ 4,437,990	\$ -	\$ 4,823,280	\$ 4,823,280
2019	Projected	\$ -	\$ 153	0.0%	\$ 17,498,767	\$ 16,529,860	\$ 19,451,223	\$ 968,907	\$ 4,132,465	\$ -	\$ 1,324,000	\$ 3,499,280
2020	Projected	\$ -	\$ 153	0.0%	\$ 16,900,223	\$ 16,075,181	\$ 20,276,265	\$ 825,042	\$ 4,018,795	\$ 42,278,195	\$ 11,107,663	\$ 34,669,812
2021	Projected	\$ -	\$ 153	0.0%	\$ 17,197,406	\$ 17,458,035	\$ 20,015,636	\$ (260,629)	\$ 4,364,509	\$ -	\$ 21,937,124	\$ 12,732,688
2022	Projected	\$ 5	\$ 158	3.3%	\$ 17,597,917	\$ 18,362,450	\$ 19,251,103	\$ (764,533)	\$ 4,590,612	\$ -	\$ 7,812,472	\$ 4,920,216
2023	Projected	\$ 6	\$ 164	3.8%	\$ 18,449,034	\$ 20,738,363	\$ 16,961,774	\$ (2,289,329)	\$ 5,184,591	\$ 31,800,000	\$ 7,334,836	\$ 29,385,380
2024	Projected	\$ 6	\$ 170	3.7%	\$ 19,241,649	\$ 21,007,186	\$ 15,196,237	\$ (1,765,537)	\$ 5,251,797	\$ -	\$ 6,993,613	\$ 22,391,767
2025	Projected	\$ 6	\$ 176	3.5%	\$ 19,895,930	\$ 21,287,955	\$ 13,804,211	\$ (1,392,026)	\$ 5,321,989	\$ -	\$ 17,318,462	\$ 5,073,305
2026	Projected	\$ 6	\$ 182	3.4%	\$ 20,519,382	\$ 21,779,712	\$ 12,543,881	\$ (1,260,330)	\$ 5,444,928	\$ 3,400,000	\$ 5,099,667	\$ 3,373,638
2027	Projected	\$ 7	\$ 189	3.8%	\$ 21,384,120	\$ 22,078,949	\$ 11,849,051	\$ (694,830)	\$ 5,519,737	\$ -	\$ 697,500	\$ 2,676,138
2028	Projected	\$ 7	\$ 196	3.7%	\$ 22,264,055	\$ 22,380,162	\$ 11,732,945	\$ (116,106)	\$ 5,595,040	\$ -	\$ 831,001	\$ 1,845,137
2029	Projected	\$ 7	\$ 203	3.6%	\$ 23,394,787	\$ 24,815,433	\$ 10,312,299	\$ (1,420,646)	\$ 6,203,858	\$ 32,600,000	\$ 1,016,933	\$ 33,428,204
2030	Projected	\$ 6	\$ 209	3.0%	\$ 24,385,458	\$ 25,137,068	\$ 9,560,688	\$ (751,611)	\$ 6,284,267	\$ -	\$ 5,872,435	\$ 27,555,769
2031	Projected	\$ 6	\$ 215	2.9%	\$ 25,024,639	\$ 25,468,906	\$ 9,116,421	\$ (444,268)	\$ 6,367,227	\$ -	\$ 16,283,479	\$ 11,272,290
2032	Projected	\$ 6	\$ 221	2.8%	\$ 25,687,338	\$ 26,788,813	\$ 8,014,946	\$ (1,101,474)	\$ 6,697,203	\$ 14,200,000	\$ 17,939,143	\$ 7,533,147
2033	Projected	\$ 6	\$ 227	2.7%	\$ 26,433,926	\$ 27,144,571	\$ 7,304,301	\$ (710,645)	\$ 6,786,143	\$ -	\$ 6,102,209	\$ 1,430,938
2034	Projected	\$ 6	\$ 233	2.6%	\$ 27,216,097	\$ 27,504,629	\$ 7,015,769	\$ (288,532)	\$ 6,876,157	\$ -	\$ -	\$ 1,430,938
2035	Projected	\$ 5	\$ 238	2.1%	\$ 27,937,630	\$ 27,882,172	\$ 7,071,228	\$ 55,458	\$ 6,970,543	\$ -	\$ -	\$ 1,430,938
2036	Projected	\$ 5	\$ 243	2.1%	\$ 28,665,523	\$ 28,265,453	\$ 7,471,297	\$ 400,070	\$ 7,066,363	\$ -	\$ -	\$ 1,430,938
2037	Projected	\$ 5	\$ 248	2.1%	\$ 29,399,785	\$ 28,660,347	\$ 8,210,736	\$ 739,438	\$ 7,165,087	\$ -	\$ -	\$ 1,430,938
2038	Projected	\$ 4	\$ 252	1.6%	\$ 30,024,677	\$ 29,072,074	\$ 9,163,339	\$ 952,604	\$ 7,268,018	\$ -	\$ -	\$ 1,430,938
2039	Projected	\$ 2	\$ 254	0.8%	\$ 30,646,561	\$ 31,783,711	\$ 8,026,189	\$ (1,137,150)	\$ 7,945,928	\$ 33,300,000	\$ 3,366,248	\$ 31,364,690
2040	Projected	\$ -	\$ 254	0.0%	\$ 30,820,063	\$ 27,630,569	\$ 11,215,683	\$ 3,189,494	\$ 6,907,642	\$ -	\$ 28,970,816	\$ 2,393,874
2041	Projected	\$ -	\$ 254	0.0%	\$ 30,762,144	\$ 27,454,012	\$ 14,523,816	\$ 3,308,132	\$ 6,863,503	\$ -	\$ 977,959	\$ 1,415,915
2042	Projected	\$ -	\$ 254	0.0%	\$ 30,921,936	\$ 27,702,647	\$ 17,743,104	\$ 3,219,288	\$ 6,925,662	\$ -	\$ -	\$ 1,415,915
2043	Projected	\$ -	\$ 254	0.0%	\$ 31,089,503	\$ 28,177,953	\$ 20,654,654	\$ 2,911,551	\$ 7,044,488	\$ -	\$ -	\$ 1,415,915
2044	Projected	\$ -	\$ 254	0.0%	\$ 31,257,526	\$ 28,665,296	\$ 23,246,885	\$ 2,592,230	\$ 7,166,324	\$ -	\$ -	\$ 1,415,915

LPTA
ESTIMATED REVENUE AND EXPENSES

MODIFIED PROJECT SCHEDULE
Option 2

	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected
Users and Rates														
Total EDUs	24,804	24,904	25,147	25,350	25,801	26,256	26,280	26,434	26,584	26,727	26,838	26,988	27,138	27,288
New EDUs		100	243	251	251	214	200	154	150	143	111	150	150	150
Rate Increase	\$ -	\$ 6	\$ 9	\$ 9	\$ 9	\$ -	\$ -	\$ -	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 7
Quarterly Rate	\$ 125	\$ 130	\$ 139	\$ 148	\$ 153	\$ 153	\$ 153	\$ 153	\$ 158	\$ 164	\$ 170	\$ 176	\$ 182	\$ 189
Annual Rate	\$ 500	\$ 520	\$ 555	\$ 592	\$ 612	\$ 612	\$ 612	\$ 612	\$ 632	\$ 656	\$ 680	\$ 704	\$ 728	\$ 756
Annual Rate Increase	4.0%	4.0%	6.6%	6.6%	3.4%	0.0%	0.0%	0.0%	3.3%	3.8%	3.7%	3.5%	3.4%	3.8%
Acct 36 - Operating Fund														
Revenue														
Interest Income (Acct# 341.01) ⁽¹⁾	\$ 3,266	\$ 12,201	\$ 10,345	\$ 25,964	\$ 53,675	\$ 45,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
PLGIT ARM & Bond Interest (Acct# 341.02, 04, 05) ⁽²⁾	\$ 22,756	\$ 38,077	\$ 121,787	\$ 155,255	\$ 155,255	\$ 45,000	\$ 35,000	\$ 355,519	\$ 132,397	\$ 257,292	\$ 388,329	\$ 505,988	\$ 635,352	\$ 453,733
BAB Interest Subsidy (Acct# 341.03)	\$ 868,851	\$ 867,915	\$ 872,128	\$ 871,660	\$ 874,469	\$ 871,659	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Harrisburg City Reimbursement (Acct# 364.01)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 83,520	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sewer Rental Revenue (Acct# 364.10)	\$ 12,903,306	\$ 13,182,239	\$ 14,046,790	\$ 15,484,910	\$ 16,028,300	\$ 15,878,780	\$ 16,043,360	\$ 16,177,608	\$ 16,801,088	\$ 17,532,912	\$ 18,249,840	\$ 18,999,552	\$ 19,756,464	\$ 20,629,720
Tasolins Fees (Acct# 364.11) ⁽¹⁾	\$ 245,205	\$ 218,405	\$ 476,889	\$ 480,320	\$ 480,320	\$ 620,312	\$ 428,000	\$ 428,000	\$ 309,000	\$ 286,000	\$ 222,000	\$ 300,000	\$ 300,000	\$ 300,000
Reimbursements (Acct# 364.12)	\$ 11,076	\$ 15,179	\$ 21,233	\$ 6,950	\$ 10,478	\$ 4,500	\$ 10,000	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500
Escrow Reimbursements (Acct# 364.13)	\$ 60,515	\$ 8,761	\$ 47,585	\$ 4,252	\$ 3,410	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Storm Sewer Reimbursement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 263,863	\$ 271,779	\$ 279,932	\$ 288,330	\$ 296,800	\$ 305,890	\$ 315,066	\$ 324,518	\$ 334,518
Miscellaneous Income	\$ (450)	\$ -	\$ -	\$ 2,235	\$ 36,868	\$ 106,868	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenue	\$ 14,114,525	\$ 14,342,768	\$ 15,596,754	\$ 16,879,123	\$ 17,781,983	\$ 17,498,767	\$ 16,900,223	\$ 17,197,406	\$ 17,597,917	\$ 18,449,034	\$ 19,241,649	\$ 19,895,930	\$ 20,519,382	\$ 21,384,120
Expenses														
Administrative Expenses (Acct# 36-4001) ⁽⁴⁾	\$ 2,891,215	\$ 2,444,422	\$ 2,859,863	\$ 3,015,893	\$ 3,139,942	\$ 3,053,530	\$ 3,387,885	\$ 3,469,000	\$ 3,573,000	\$ 3,690,000	\$ 3,790,000	\$ 3,904,000	\$ 4,021,000	\$ 4,142,000
Operating Expenses (Acct 36-4300) ⁽⁵⁾	\$ 8,507,853	\$ 7,338,174	\$ 8,553,035	\$ 7,405,179	\$ 7,923,516	\$ 5,299,229	\$ 5,273,883	\$ 5,024,835	\$ 5,175,589	\$ 5,330,848	\$ 5,490,773	\$ 5,655,496	\$ 5,825,161	\$ 5,999,916
LPTA Expenses (Acct# 429.12 thru 429.34)	\$ 3,256,102	\$ 3,390,158	\$ 3,841,644	\$ 3,609,168	\$ 4,347,542	\$ 383,800	\$ 453,400	\$ 467,002	\$ 481,012	\$ 495,442	\$ 510,306	\$ 525,615	\$ 541,383	\$ 557,625
Swatara Flow Surcharge, Trans & Treat (Acct# 429.35 and 429.36)	\$ 1,644,858	\$ 1,581,344	\$ 1,417,573	\$ 1,401,900	\$ 1,432,862	\$ 1,437,124	\$ 1,432,862	\$ 1,377,716	\$ 1,377,847	\$ 1,461,758	\$ 1,505,611	\$ 1,550,779	\$ 1,597,303	\$ 1,645,222
Harrisburg Trans & Treat (Acct# 429.37)	\$ 3,584,130	\$ 2,353,959	\$ 3,281,127	\$ 2,381,435	\$ 2,089,819	\$ 3,468,567	\$ 3,468,567	\$ 3,165,566	\$ 3,260,533	\$ 3,358,349	\$ 3,459,099	\$ 3,562,872	\$ 3,669,758	\$ 3,779,851
Pendang Trans (Acct# 429.38)	\$ 12,763	\$ 12,715	\$ 12,691	\$ 12,676	\$ 12,731	\$ 14,000	\$ 14,000	\$ 14,853	\$ 15,298	\$ 16,230	\$ 16,757	\$ 17,282	\$ 17,717	\$ 18,216
Debt Service (Acct# 36-4700)	\$ 4,329,624	\$ 4,689,472	\$ 5,244,506	\$ 5,178,492	\$ 6,688,503	\$ 6,688,503	\$ 7,133,633	\$ 6,964,200	\$ 6,813,869	\$ 7,127,515				
Series of 2013 (Acct# 471 & 472.04)	\$ 158,300	\$ 158,300	\$ 152,400	\$ 138,050	\$ 121,300	\$ 1,334,050	\$ 1,437,450	\$ 1,484,400	\$ 1,515,000	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009A (Acct# 471 & 472.07)	\$ 63,093	\$ 47,943	\$ 34,937	\$ 17,712	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009C (Acct# 471 & 472.09)	\$ 550,890	\$ 275,420	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series D 2009 (Acct# 471 & 472.10)	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010B (Acct# 471 & 472.11)	\$ 57,500	\$ 30,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010C (Acct# 471 & 472.12)	\$ 2,807	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PennVest Interest (Acct# 471 & 472.13)	\$ 208,492	\$ 214,422	\$ 209,900	\$ 226,781	\$ 241,574	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495
Capitalized Interest Expense (Acct# 471 & 472.14)	\$ (514,442)	\$ (298,359)	\$ (189,955)	\$ (189,955)	\$ (128,383)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2014 (Acct# 471 & 472.15)	\$ 860,906	\$ 1,048,173	\$ 1,043,723	\$ 1,035,291	\$ 1,029,335	\$ 1,487,016	\$ 1,486,879	\$ 1,486,872	\$ 1,486,054	\$ 1,490,436	\$ 1,488,036	\$ 1,488,091	\$ 1,485,451	\$ 1,486,687
Series 2015 (Acct# 471 & 472.16)	\$ -	\$ 256,619	\$ 459,025	\$ 458,925	\$ 454,925	\$ 510,375	\$ 499,725	\$ 499,526	\$ 607,776	\$ 2,146,476	\$ 2,209,075	\$ 2,205,113	\$ 2,204,150	\$ 2,204,150
Series 2016 (Acct# 471 & 472.17)	\$ -	\$ -	\$ 795,058	\$ 906,731	\$ 897,032	\$ 1,387,131	\$ 1,387,051	\$ 1,386,432	\$ 1,385,032	\$ 1,387,732	\$ 1,384,532	\$ 1,385,432	\$ 1,386,385	\$ 1,386,919
PennVest 2019 (Acct# 471 & 472.18)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44,900	\$ 209,766	\$ 209,766	\$ 675,704	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016
Series 2019 (Acct# 471 & 472.19)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,677,293	\$ 1,787,150	\$ 1,787,250	\$ 1,787,550	\$ 1,723,550	\$ 1,700,550	\$ 1,702,550	\$ 1,702,550	\$ 1,705,225
Series of 2020 (Approx. 30 yrs. 3%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,479,558	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559
Series of 2023 (Approx. 30 yrs. 4.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251
Series of 2026 (Approx. 30 yrs. 4.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,028,731	\$ 2,028,731
Series of 2029 (Approx. 30 yrs. 5.0%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series of 2032 (Approx. 30 yrs. 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series of 2038 (Approx. 30 yrs. 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other (Acct#4715)	\$ 466,044	\$ 281,423	\$ 255,776	\$ (110,078)	\$ 1,402,886	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenses	\$ 15,516,692	\$ 14,472,068	\$ 16,857,204	\$ 15,599,263	\$ 17,751,961	\$ 16,529,860	\$ 16,075,181	\$ 17,458,035	\$ 18,362,450	\$ 20,738,363	\$ 21,007,186	\$ 21,287,955	\$ 21,779,712	\$ 22,078,949
Reserves														
Operating Surplus (Deficit)	\$ (1,404,167)	\$ (129,300)	\$ (1,260,450)	\$ 1,279,860	\$ 30,023	\$ 968,907	\$ 825,042	\$ (280,629)	\$ (764,533)	\$ (2,289,329)	\$ (1,765,537)	\$ (1,392,026)	\$ (1,260,330)	\$ (694,830)
Total Reserve	\$ 15,423,297	\$ 15,293,997	\$ 14,033,547	\$ 15,313,407	\$ 16,426,401	\$ 19,451,223	\$ 20,276,265	\$ 20,015,636	\$ 19,251,103	\$ 16,961,774	\$ 15,196,237	\$ 13,804,211	\$ 12,543,881	\$ 11,849,051
Target Reserve at 25% Admin., Operating and Debt Service Expenses	\$ 3,879,673	\$ 3,618,017	\$ 4,214,301	\$ 3,899,816	\$ 4,437,990	\$ 4,132,465	\$ 4,018,795	\$ 4,364,509	\$ 4,590,612	\$ 5,184,591	\$ 5,251,797	\$ 5,321,989	\$ 5,444,928	\$ 5,519,737
Acct 37 - Capital Projects														
Funding														
Projected Bond Issue Borrowing	\$ 25,000,000		\$ 25,000,000				\$ 29,000,000			\$ 31,800,000			\$ 3,400,000	
Cash		\$ 1,150,000					\$ 13,278,195							
PennVest Reimbursement														
Total Funding	\$ 25,000,000	\$ 1,150,000	\$ 25,000,000	\$ -	\$ -	\$ -	\$ 42,278,195	\$ -	\$ -	\$ 31,800,000	\$ -	\$ -	\$ 3,400,000	\$ -
Expenditures														
General Capital Projects Expenditures (Acct# 37-4900)	\$ 778,484	\$ 43,283	\$ 169,888	\$ 183,214	\$ 1,442,857	\$ 265,000	\$ 398,400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bond Fund Expenditures (Acct# 37-4900)	\$ 19,540,293	\$ 13,192,000	\$ 12,107,547	\$ 8,881,025	\$ 3,380,423	\$ 1,059,000	\$ 10,789,263	\$ 21,937,124	\$ 7,812,472	\$ 7,334,836	\$ 6,993,613	\$ 17,318,462	\$ 5,099,667	\$ 697,500
Beaver Creek Expenditure	\$ 5,743,086	\$ 9,100,854	\$ 5,788,838	\$ 1,594,626	\$ 733,153	\$ 285,000	\$ 8,435,779	\$ 12,457,271	\$ 6,848,261	\$ 6,108,228	\$ 524,657	\$ 24,592	\$ 614,534	\$ -
Paxton Creek Expenditure	\$ 13,300,329	\$ 3,598,876	\$ 5,777,047	\$ 5,383,886	\$ 1,533,741	\$ 65,000	\$ -	\$ -	\$ 273,568	\$ 5,066,545	\$ 10,737,001	\$ 25,712	\$ -	\$ -
Spring Creek Expenditure	\$ 16,943	\$ 1,654	\$ -	\$ -	\$ 25,894	\$ 40,000	\$ 608,058	\$ 2,855,429	\$ -	\$ 41,376	\$ 414,000	\$ 5,204,310	\$ 3,486,126	\$ -
Other	\$ 479,935	\$ 481,624	\$ 541,662	\$ 1,932,514	\$ 1,057,636	\$ 669,000	\$ 1,665,426	\$ 6,624,424	\$ 964,211	\$ 911,664	\$ 988,351	\$ 1,952,559	\$ 973,295	\$ 697,500
Total Expenditures	\$ 20,318,777	\$ 13,235,293	\$ 12,277,435	\$ 9,034,239	\$ 4,823,280	\$ 1,324,000	\$ 11,107,663	\$ 21,937,124	\$ 7,812,472	\$ 7,334,836	\$ 6,993,61			

LPTA
ESTIMATED REVENUE AND EXPENSES

MODIFIED PROJECT SCHEDULE
Option 2

	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
	Projected									
Users and Rates										
Total EDUs	27,438	27,588	27,738	27,888	28,038	28,188	28,338	28,488	28,638	28,788
New EDUs	150	150	150	150	150	150	150	150	150	150
Rate Increase	\$ 7	\$ 7	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 5
Quarterly Rate	\$ 196	\$ 203	\$ 209	\$ 215	\$ 221	\$ 227	\$ 233	\$ 238	\$ 243	\$ 248
Annual Rate	\$ 784	\$ 812	\$ 836	\$ 860	\$ 884	\$ 908	\$ 932	\$ 952	\$ 972	\$ 992
Annual Rate Increase	3.7%	3.6%	3.0%	2.9%	2.8%	2.7%	2.6%	2.1%	2.1%	2.1%
Acct 36 - Operating Fund										
Revenue										
Interest Income (Acct# 341.01) ⁽²⁾	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
PLGIT ARM & Bond Interest (Acct# 341.02.04.05) ⁽²⁾	\$ 33,910	\$ 264,550	\$ 457,380	\$ 291,210	\$ 141,041	\$ 67,231	\$ 21,464	\$ 21,464	\$ 21,464	\$ 21,464
BAB Interest Subsidy (Acct# 341.03)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Harrisburg City Reimbursement (Acct# 364.01)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sewer Rental Revenue (Acct# 364.10)	\$ 21,511,392	\$ 22,401,456	\$ 23,188,968	\$ 23,983,680	\$ 24,785,592	\$ 25,594,704	\$ 26,411,016	\$ 27,120,576	\$ 27,836,136	\$ 28,557,696
Taxation Fees (Acct# 364.11) ⁽⁷⁾	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000
Reimbursements (Acct# 364.12)	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500
Escrow Reimbursements (Acct# 364.13)	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Storm Sewer Reimbursement	\$ 334,254	\$ 344,281	\$ 354,610	\$ 365,248	\$ 376,206	\$ 387,492	\$ 399,116	\$ 411,090	\$ 423,423	\$ 436,125
Miscellaneous Income	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenue	\$ 22,264,055	\$ 23,394,787	\$ 24,385,458	\$ 25,024,639	\$ 25,687,338	\$ 26,433,926	\$ 27,216,097	\$ 27,937,630	\$ 28,665,523	\$ 29,399,785
Expenses										
Administrative Expenses (Acct# 36-4001) ⁽⁴⁾	\$ 4,266,000	\$ 4,394,000	\$ 4,526,000	\$ 4,662,000	\$ 4,802,000	\$ 4,946,000	\$ 5,094,000	\$ 5,247,000	\$ 5,404,000	\$ 5,566,000
Operating Expenses (Acct# 36-4206) ⁽⁵⁾	\$ 6,179,314	\$ 6,365,311	\$ 6,556,270	\$ 6,752,958	\$ 6,955,647	\$ 7,164,214	\$ 7,378,140	\$ 7,600,514	\$ 7,828,530	\$ 8,063,385
LPTA Expenses (Acct# 429.12 thru 429.34)	\$ 574,354	\$ 591,584	\$ 609,332	\$ 627,612	\$ 646,440	\$ 665,833	\$ 685,908	\$ 706,382	\$ 727,574	\$ 749,401
Swatara Flow Surcharge, Trans & Treat (Acct# 429.35 and 429.36)	\$ 1,694,579	\$ 1,745,416	\$ 1,797,778	\$ 1,851,712	\$ 1,907,263	\$ 1,964,481	\$ 2,023,415	\$ 2,084,118	\$ 2,146,641	\$ 2,211,041
Harrisburg Trans & Treat (Acct# 429.37)	\$ 3,893,247	\$ 4,010,044	\$ 4,130,345	\$ 4,254,256	\$ 4,381,883	\$ 4,513,340	\$ 4,648,740	\$ 4,788,202	\$ 4,931,848	\$ 5,079,504
Pixton Trans (Acct# 429.38)	\$ 17,735	\$ 18,267	\$ 18,815	\$ 19,379	\$ 19,961	\$ 20,559	\$ 21,176	\$ 21,812	\$ 22,466	\$ 23,140
Debt Service (Acct# 36-4700)	\$ 11,934,248	\$ 14,056,122	\$ 14,054,798	\$ 14,053,948	\$ 15,031,266	\$ 15,034,359	\$ 15,031,499	\$ 15,034,658	\$ 15,032,924	\$ 15,030,862
Series of 2013 (Acct# 471 & 472.04)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009A (Acct# 471 & 472.07)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009C (Acct# 471 & 472.09)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series D 2009 (Acct# 471 & 472.10)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010B (Acct# 471 & 472.11)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010C (Acct# 471 & 472.12)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PennVest Interest (Acct# 471 & 472.13)	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 339,745	\$ -	\$ -	\$ -	\$ -	\$ -
Capitalized Interest Expense (Acct# 471 & 472.14)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2014 (Acct# 471 & 472.15)	\$ 1,485,750	\$ 1,487,375	\$ 1,487,250	\$ 1,490,250	\$ 1,486,375	\$ 1,485,625	\$ 1,487,750	\$ 1,487,625	\$ 1,490,125	\$ 1,490,125
Series 2015 (Acct# 471 & 472.16)	\$ 2,206,375	\$ 1,674,750	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2016 (Acct# 471 & 472.17)	\$ 1,385,471	\$ 1,386,468	\$ 1,385,619	\$ 1,384,169	\$ 1,386,575	\$ 1,387,262	\$ 1,386,668	\$ 1,385,262	\$ 1,387,428	\$ 1,388,066
Pennvest 2019 (Acct# 471 & 472.18)	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016
Series 2019 (Acct# 471 & 472.19)	\$ 1,702,600	\$ 2,232,800	\$ 3,907,200	\$ 3,904,800	\$ 4,246,300	\$ 4,589,200	\$ 4,584,800	\$ 4,589,500	\$ 4,583,100	\$ 4,580,500
Series of 2020 (Approx. 30 yrs. 3%)	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559
Series of 2020 (Approx. 30 yrs. 4.5%)	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251
Series of 2026 (Approx. 30 yrs. 4.5%)	\$ 208,731	\$ 208,731	\$ 208,731	\$ 208,731	\$ 208,731	\$ 208,731	\$ 208,731	\$ 208,731	\$ 208,731	\$ 208,731
Series of 2029 (Approx. 30 yrs. 5.0%)	\$ -	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677
Series of 2032 (Approx. 30 yrs. 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ 977,037	\$ 977,037	\$ 977,037	\$ 977,037	\$ 977,037	\$ 977,037
Series of 2038 (Approx. 30 yrs. 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other (Acct# 475)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenses	\$ 22,380,162	\$ 24,815,433	\$ 25,137,068	\$ 25,468,906	\$ 26,788,813	\$ 27,144,571	\$ 27,504,629	\$ 27,882,172	\$ 28,265,453	\$ 28,660,347
Reserves										
Operating Surplus (Deficit)	\$ (116,106)	\$ (1,420,646)	\$ (751,611)	\$ (444,268)	\$ (1,101,474)	\$ (710,645)	\$ (288,532)	\$ 55,458	\$ 400,070	\$ 739,438
Total Reserve	\$ 11,732,945	\$ 10,312,299	\$ 9,560,688	\$ 9,116,421	\$ 8,014,946	\$ 7,304,301	\$ 7,015,769	\$ 7,014,228	\$ 7,471,297	\$ 8,210,736
Target Reserve at 25% Admin., Operating and Debt Service Expenses	\$ 5,595,040	\$ 6,203,858	\$ 6,284,267	\$ 6,367,227	\$ 6,697,203	\$ 6,786,143	\$ 6,876,157	\$ 6,970,543	\$ 7,066,363	\$ 7,165,087
Acct 37 - Capital Projects										
Funding										
Projected Bond Issue Borrowing	\$ -	\$ 32,600,000	\$ -	\$ -	\$ 14,200,000	\$ -	\$ -	\$ -	\$ -	\$ -
Cash	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PennVest Reimbursement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Funding	\$ -	\$ 32,600,000	\$ -	\$ -	\$ 14,200,000	\$ -				
Expenditures										
General Capital Projects Expenditures (Acct# 37-4800)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bond Fund Expenditures (Acct# 37-4900)	\$ 831,001	\$ 1,016,933	\$ 5,872,435	\$ 16,283,479	\$ 17,939,143	\$ 6,102,209	\$ -	\$ -	\$ -	\$ -
Bleaker Creek Expenditure	\$ -	\$ 287,565	\$ 4,860,557	\$ 15,422,846	\$ 16,957,776	\$ 5,083,011	\$ -	\$ -	\$ -	\$ -
Paxton Creek Expenditure	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Spring Creek Expenditure	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ 831,001	\$ 729,368	\$ 1,011,878	\$ 860,633	\$ 881,367	\$ 1,019,198	\$ -	\$ -	\$ -	\$ -
Total Expenditures	\$ 831,001	\$ 1,016,933	\$ 5,872,435	\$ 16,283,479	\$ 17,939,143	\$ 6,102,209	\$ -	\$ -	\$ -	\$ -
Reserves										
Yr End Bond Fund	\$ 1,845,137	\$ 33,428,204	\$ 27,555,769	\$ 11,272,290	\$ 7,533,147	\$ 1,430,938				

Notes:
 (1) EDUs from Chapter 64 report. Estimated at 150/year after 2021. Projected tapping from the tapping fee basis.
 (2) Interest Income Rate: Bank Funds
 Bonds
 (3) Nearly all costs are associated with transmission/beatment costs from Swatara and results in projected annual CRW percent increases from 2017 - 2020 of 48%, 0%, -17.5
 (4) Admin budget is increased from 2017 budget because of not capitalizing some sew
 (5) Revenue and expenses projected from Authority's 2016 Budget as base year.
 (7) Starting 2015 balance based based on the reported reconciled 2014 year-end fund t

LPTA
ESTIMATED REVENUE AND EXPENSES

MODIFIED PROJECT SCHEDULE
Option 2
w/ 40 year Bond in 2020

		Users and Rates			Acct 36 - Operating Fund					Acct 37 - Capital Projects		
		Rate Increase	Quarterly Rate	Annual Rate Increase	Total Revenue	Total Expenses	Total Reserve	Operating Surplus (Deficit)	Target Reserve at 25%	Total Funding	Total Expenditures	Yr End Bond Fund
2014	Actual	\$ -	\$ 125	0.0%	\$ 14,114,525	\$ 15,518,692	\$ 15,423,297	\$ (1,404,167)	\$ 3,879,673	\$ 25,000,000	\$ 20,318,777	\$ 20,548,221
2015	Actual	\$ 5	\$ 130	4.0%	\$ 14,342,768	\$ 14,472,068	\$ 15,293,997	\$ (129,300)	\$ 3,618,017	\$ 1,150,000	\$ 13,235,293	\$ 6,783,478
2016	Actual	\$ 9	\$ 139	6.8%	\$ 15,596,754	\$ 16,857,204	\$ 14,033,547	\$ (1,260,450)	\$ 4,214,301	\$ 25,000,000	\$ 12,277,435	\$ 18,457,800
2017	Actual	\$ 9	\$ 148	6.6%	\$ 16,879,123	\$ 15,599,263	\$ 15,313,407	\$ 1,279,860	\$ 3,899,816	\$ -	\$ 9,034,239	\$ 9,423,561
2018	Projected	\$ 5	\$ 153	3.4%	\$ 17,781,983	\$ 17,751,961	\$ 16,426,401	\$ 30,023	\$ 4,437,990	\$ -	\$ 4,823,280	\$ 4,823,280
2019	Projected	\$ -	\$ 153	0.0%	\$ 17,498,767	\$ 16,529,860	\$ 19,451,223	\$ 968,907	\$ 4,132,465	\$ -	\$ 1,324,000	\$ 3,499,280
2020	Projected	\$ -	\$ 153	0.0%	\$ 16,900,223	\$ 16,075,181	\$ 20,276,265	\$ 825,042	\$ 4,018,795	\$ 42,278,195	\$ 11,107,663	\$ 34,669,812
2021	Projected	\$ -	\$ 153	0.0%	\$ 17,197,406	\$ 17,458,035	\$ 20,015,636	\$ (260,629)	\$ 4,364,509	\$ -	\$ 21,937,124	\$ 12,732,688
2022	Projected	\$ 5	\$ 158	3.3%	\$ 17,597,917	\$ 18,362,450	\$ 19,251,103	\$ (764,533)	\$ 4,590,612	\$ -	\$ 7,812,472	\$ 4,920,216
2023	Projected	\$ 5	\$ 163	3.2%	\$ 18,342,126	\$ 20,738,363	\$ 16,854,866	\$ (2,396,237)	\$ 5,184,591	\$ 31,800,000	\$ 7,334,836	\$ 29,385,380
2024	Projected	\$ 6	\$ 169	3.7%	\$ 19,134,297	\$ 21,007,186	\$ 14,981,977	\$ (1,872,889)	\$ 5,251,797	\$ -	\$ 6,993,613	\$ 22,391,767
2025	Projected	\$ 6	\$ 175	3.6%	\$ 19,787,978	\$ 21,287,955	\$ 13,481,999	\$ (1,499,978)	\$ 5,321,989	\$ -	\$ 17,318,462	\$ 5,073,305
2026	Projected	\$ 7	\$ 182	4.0%	\$ 20,519,382	\$ 21,779,712	\$ 12,221,669	\$ (1,260,330)	\$ 5,444,928	\$ 3,400,000	\$ 5,099,667	\$ 3,373,638
2027	Projected	\$ 7	\$ 189	3.8%	\$ 21,384,120	\$ 22,078,949	\$ 11,526,839	\$ (694,830)	\$ 5,519,737	\$ -	\$ 697,500	\$ 2,676,138
2028	Projected	\$ 7	\$ 196	3.7%	\$ 22,264,055	\$ 22,380,162	\$ 11,410,733	\$ (116,106)	\$ 5,595,040	\$ -	\$ 831,001	\$ 1,845,137
2029	Projected	\$ 7	\$ 203	3.6%	\$ 23,394,787	\$ 24,815,433	\$ 9,990,087	\$ (1,420,646)	\$ 6,203,858	\$ 32,600,000	\$ 1,016,933	\$ 33,428,204
2030	Projected	\$ 7	\$ 210	3.4%	\$ 24,496,410	\$ 25,137,068	\$ 9,349,428	\$ (640,659)	\$ 6,284,267	\$ -	\$ 5,872,435	\$ 27,555,769
2031	Projected	\$ 6	\$ 216	2.9%	\$ 25,136,191	\$ 25,468,906	\$ 9,016,713	\$ (332,716)	\$ 6,367,227	\$ -	\$ 16,283,479	\$ 11,272,290
2032	Projected	\$ 6	\$ 222	2.8%	\$ 25,799,490	\$ 26,788,813	\$ 8,027,390	\$ (989,322)	\$ 6,697,203	\$ 14,200,000	\$ 17,939,143	\$ 7,533,147
2033	Projected	\$ 6	\$ 228	2.7%	\$ 26,546,678	\$ 27,144,571	\$ 7,429,497	\$ (597,893)	\$ 6,786,143	\$ -	\$ 6,102,209	\$ 1,430,938
2034	Projected	\$ 5	\$ 233	2.2%	\$ 27,216,097	\$ 27,504,629	\$ 7,140,965	\$ (288,532)	\$ 6,876,157	\$ -	\$ -	\$ 1,430,938
2035	Projected	\$ 5	\$ 238	2.1%	\$ 27,937,630	\$ 27,882,172	\$ 7,196,424	\$ 55,458	\$ 6,970,543	\$ -	\$ -	\$ 1,430,938
2036	Projected	\$ 5	\$ 243	2.1%	\$ 28,665,523	\$ 28,265,453	\$ 7,596,493	\$ 400,070	\$ 7,066,363	\$ -	\$ -	\$ 1,430,938
2037	Projected	\$ 5	\$ 248	2.1%	\$ 29,399,785	\$ 28,660,347	\$ 8,335,932	\$ 739,438	\$ 7,165,087	\$ -	\$ -	\$ 1,430,938
2038	Projected	\$ 4	\$ 252	1.6%	\$ 30,024,677	\$ 29,072,074	\$ 9,288,535	\$ 952,604	\$ 7,268,018	\$ -	\$ -	\$ 1,430,938
2039	Projected	\$ 1	\$ 253	0.4%	\$ 30,530,209	\$ 31,783,711	\$ 8,035,033	\$ (1,253,502)	\$ 7,945,928	\$ 33,300,000	\$ 3,366,248	\$ 31,364,690
2040	Projected	\$ -	\$ 253	0.0%	\$ 30,703,111	\$ 27,630,569	\$ 11,107,575	\$ 3,072,542	\$ 6,907,642	\$ -	\$ 28,970,816	\$ 2,393,874
2041	Projected	\$ -	\$ 253	0.0%	\$ 30,644,592	\$ 27,454,012	\$ 14,298,156	\$ 3,190,580	\$ 6,863,503	\$ -	\$ 977,959	\$ 1,415,915
2042	Projected	\$ -	\$ 253	0.0%	\$ 30,803,784	\$ 27,702,647	\$ 17,399,292	\$ 3,101,136	\$ 6,925,662	\$ -	\$ -	\$ 1,415,915
2043	Projected	\$ -	\$ 253	0.0%	\$ 30,970,751	\$ 28,177,953	\$ 20,192,090	\$ 2,792,799	\$ 7,044,488	\$ -	\$ -	\$ 1,415,915
2044	Projected	\$ -	\$ 253	0.0%	\$ 31,138,174	\$ 28,665,296	\$ 22,664,969	\$ 2,472,878	\$ 7,166,324	\$ -	\$ -	\$ 1,415,915

LPTA
ESTIMATED REVENUE AND EXPENSES

MODIFIED PROJECT SCHEDULE
Option 2
w/ 40 year Bond in 2020

	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected
Users and Rates														
Total EDUs	24,804	24,904	25,147	25,350	25,801	26,256	26,280	26,434	26,584	26,727	26,838	26,988	27,138	27,288
New EDUs		100	243	203	251	214	200	154	150	143	111	150	150	150
Rate Increase	\$ -	\$ 9	\$ 9	\$ 9	\$ 9	\$ -	\$ -	\$ -	\$ -	\$ 6	\$ 6	\$ 6	\$ 7	\$ 7
Quarterly Rate	\$ 125	\$ 130	\$ 139	\$ 148	\$ 153	\$ 153	\$ 153	\$ 153	\$ 158	\$ 163	\$ 169	\$ 175	\$ 182	\$ 189
Annual Rate	\$ 500	\$ 520	\$ 555	\$ 592	\$ 612	\$ 612	\$ 612	\$ 612	\$ 632	\$ 652	\$ 676	\$ 700	\$ 728	\$ 756
Annual Rate Increase	4.0%	4.0%	6.6%	6.6%	3.4%	0.0%	0.0%	0.0%	3.3%	3.2%	3.6%	3.6%	4.0%	3.8%
Acct 36 - Operating Fund														
Revenue														
Interest Income (Acct# 341.01) ⁽¹⁾	\$ 3,266	\$ 12,201	\$ 10,345	\$ 25,964	\$ 53,675	\$ 45,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
PLGIT ARM & Bond Interest (Acct# 341.02, 04, 05) ⁽²⁾	\$ 22,756	\$ 38,077	\$ 121,787	\$ 155,255	\$ 155,255	\$ 45,000	\$ 35,000	\$ 355,519	\$ 132,397	\$ 257,292	\$ 388,329	\$ 505,988	\$ 635,352	\$ 45,373
BAB Interest Subsidy (Acct# 341.03)	\$ 868,851	\$ 867,915	\$ 872,128	\$ 871,660	\$ 874,469	\$ 871,659	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Harrisburg City Reimbursement (Acct# 364.01)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 83,520	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sewer Rental Revenue (Acct# 364.10)	\$ 12,903,306	\$ 13,182,239	\$ 14,046,790	\$ 15,484,910	\$ 16,028,300	\$ 15,879,780	\$ 16,043,368	\$ 16,177,608	\$ 16,801,088	\$ 17,426,004	\$ 18,142,488	\$ 18,891,600	\$ 19,756,464	\$ 20,629,720
Taxino Fees (Acct# 364.11) ⁽¹⁾	\$ 245,205	\$ 218,405	\$ 476,889	\$ 480,320	\$ 480,320	\$ 620,312	\$ 428,000	\$ 428,000	\$ 309,000	\$ 286,000	\$ 222,000	\$ 300,000	\$ 300,000	\$ 300,000
Reimbursements (Acct# 364.12)	\$ 11,076	\$ 15,179	\$ 21,233	\$ 6,950	\$ 10,478	\$ 4,500	\$ 10,000	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500
Escrow Reimbursements (Acct# 364.13)	\$ 60,515	\$ 8,761	\$ 47,585	\$ 4,252	\$ 3,410	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Storm Sewer Reimbursement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 263,863	\$ 271,779	\$ 279,932	\$ 288,330	\$ 296,800	\$ 305,890	\$ 315,066	\$ 324,518	\$ 334,518
Miscellaneous Income	\$ (450)	\$ -	\$ -	\$ 3,235	\$ 36,868	\$ 106,868	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenue	\$ 14,114,525	\$ 14,342,768	\$ 15,596,754	\$ 16,879,123	\$ 17,781,983	\$ 17,498,767	\$ 16,900,223	\$ 17,197,406	\$ 17,597,917	\$ 18,342,126	\$ 19,134,297	\$ 19,787,978	\$ 20,519,382	\$ 21,384,120
Expenses														
Administrative Expenses (Acct# 36-4001) ⁽⁴⁾	\$ 2,891,215	\$ 2,444,422	\$ 2,859,863	\$ 3,015,893	\$ 3,139,942	\$ 3,053,530	\$ 3,387,885	\$ 3,469,000	\$ 3,573,000	\$ 3,690,000	\$ 3,790,000	\$ 3,904,000	\$ 4,021,000	\$ 4,142,000
Operating Expenses (Acct# 36-4300) ⁽⁵⁾	\$ 8,507,853	\$ 7,338,174	\$ 8,553,035	\$ 7,405,179	\$ 7,923,516	\$ 5,299,229	\$ 5,273,883	\$ 5,024,835	\$ 5,175,589	\$ 5,330,848	\$ 5,490,773	\$ 5,655,496	\$ 5,825,161	\$ 5,999,916
LPTA Expenses (Acct# 429.12 thru 429.34)	\$ 3,256,102	\$ 3,390,158	\$ 3,841,644	\$ 3,609,168	\$ 4,347,542	\$ 383,800	\$ 453,340	\$ 467,002	\$ 481,012	\$ 495,442	\$ 510,306	\$ 525,615	\$ 541,383	\$ 557,625
Swatara Flow Surcharge, Trans & Treat (Acct# 429.35 and 429.36)	\$ 1,644,858	\$ 1,581,344	\$ 1,417,573	\$ 1,401,900	\$ 1,437,124	\$ 1,432,862	\$ 1,373,716	\$ 1,377,847	\$ 1,377,847	\$ 1,461,758	\$ 1,505,611	\$ 1,550,779	\$ 1,607,303	\$ 1,645,222
Harrisburg Trans & Treat (Acct# 429.37)	\$ 3,584,130	\$ 2,353,959	\$ 3,281,127	\$ 2,381,435	\$ 2,089,819	\$ 3,468,567	\$ 3,165,567	\$ 3,165,567	\$ 3,260,533	\$ 3,358,349	\$ 3,459,099	\$ 3,562,872	\$ 3,669,758	\$ 3,779,851
Pendang Trans (Acct# 429.38)	\$ 12,763	\$ 12,715	\$ 12,691	\$ 12,676	\$ 12,731	\$ 14,000	\$ 14,000	\$ 14,833	\$ 15,298	\$ 16,230	\$ 16,757	\$ 17,282	\$ 17,717	\$ 18,216
Debt Service (Acct# 36-4700)	\$ 4,329,624	\$ 4,689,472	\$ 5,244,506	\$ 5,178,492	\$ 6,688,503	\$ 6,688,503	\$ 7,177,011	\$ 7,413,633	\$ 6,942,200	\$ 9,613,869	\$ 11,727,515	\$ 11,726,413	\$ 11,726,413	\$ 11,937,033
Series of 2013 (Acct# 471 & 472.04)	\$ 158,300	\$ 158,300	\$ 152,400	\$ 138,050	\$ 121,300	\$ 1,394,050	\$ 1,437,450	\$ 1,484,400	\$ 1,515,000	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009A (Acct# 471 & 472.07)	\$ 63,093	\$ 47,943	\$ 34,937	\$ 17,712	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009C (Acct# 471 & 472.09)	\$ 550,890	\$ 275,420	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series D 2009 (Acct# 471 & 472.15)	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010B (Acct# 471 & 472.11)	\$ 57,500	\$ 30,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010C (Acct# 471 & 472.12)	\$ 2,807	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PennVest Interest (Acct# 471 & 472.13)	\$ 208,492	\$ 214,422	\$ 209,900	\$ 226,781	\$ 241,574	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495
Capitalized Interest Expense (Acct# 471 & 472.14)	\$ (514,442)	\$ (298,359)	\$ (189,955)	\$ (189,955)	\$ (128,583)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2014 (Acct# 471 & 472.15)	\$ 860,906	\$ 1,048,173	\$ 1,043,723	\$ 1,035,291	\$ 1,029,335	\$ 1,487,016	\$ 1,486,879	\$ 1,486,872	\$ 1,486,054	\$ 1,490,436	\$ 1,488,036	\$ 1,488,091	\$ 1,485,451	\$ 1,486,687
Series 2015 (Acct# 471 & 472.16)	\$ -	\$ 256,619	\$ 459,025	\$ 488,925	\$ 454,025	\$ 510,375	\$ 499,705	\$ 459,526	\$ 607,776	\$ 2,146,476	\$ 2,209,075	\$ 2,205,113	\$ 2,204,150	\$ -
Series 2016 (Acct# 471 & 472.17)	\$ -	\$ -	\$ 795,058	\$ 906,731	\$ 897,032	\$ 1,387,131	\$ 1,387,051	\$ 1,386,432	\$ 1,385,032	\$ 1,387,732	\$ 1,384,532	\$ 1,385,432	\$ 1,386,385	\$ 1,386,919
PennVest 2019 (Acct# 471 & 472.18)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44,900	\$ 209,766	\$ 209,766	\$ 675,704	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016
Series 2019 (Acct# 471 & 472.19)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,677,293	\$ 1,787,150	\$ 1,787,250	\$ 1,757,550	\$ 1,723,500	\$ 1,700,550	\$ 1,702,550	\$ 1,705,225	\$ -
Series of 2020 (Approx. 30 yrs. 3%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,479,558	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559
Series of 2023 (Approx. 30 yrs. 4.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251
Series of 2026 (Approx. 30 yrs. 4.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,028,731	\$ 208,731
Series of 2029 (Approx. 30 yrs. 5.0%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series of 2032 (Approx. 30 yrs. 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series of 2038 (Approx. 30 yrs. 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other (Acct#4715)	\$ 466,044	\$ 281,423	\$ 255,776	\$ (110,078)	\$ 1,402,886	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenses	\$ 15,516,692	\$ 14,472,068	\$ 16,857,204	\$ 15,599,263	\$ 17,751,061	\$ 16,529,860	\$ 16,075,181	\$ 17,458,035	\$ 18,362,450	\$ 20,738,363	\$ 21,007,186	\$ 21,287,955	\$ 21,779,712	\$ 22,078,949
Reserves														
Operating Surplus (Deficit)	\$ (1,404,167)	\$ (129,300)	\$ (1,260,450)	\$ 1,279,860	\$ 30,023	\$ 968,907	\$ 825,042	\$ (280,629)	\$ (764,533)	\$ (2,396,237)	\$ (1,872,889)	\$ (1,499,978)	\$ (1,260,330)	\$ (694,830)
Total Reserve	\$ 15,423,297	\$ 15,293,997	\$ 14,033,547	\$ 15,313,407	\$ 16,426,401	\$ 19,451,223	\$ 20,276,265	\$ 20,015,636	\$ 19,251,103	\$ 16,854,866	\$ 14,981,977	\$ 13,481,999	\$ 12,221,669	\$ 11,526,839
Target Reserve at 25% Admin., Operating and Debt Service Expenses	\$ 3,879,673	\$ 3,618,017	\$ 4,214,301	\$ 3,899,816	\$ 4,437,990	\$ 4,132,465	\$ 4,018,795	\$ 4,364,509	\$ 4,590,612	\$ 5,184,591	\$ 5,251,797	\$ 5,321,989	\$ 5,444,928	\$ 5,519,737
Acct 37 - Capital Projects														
Funding														
Projected Bond Issue Borrowing	\$ 25,000,000	\$ -	\$ 25,000,000	\$ -	\$ -	\$ -	\$ 29,000,000	\$ -	\$ -	\$ 31,800,000	\$ -	\$ -	\$ 3,400,000	\$ -
Cash	\$ -	\$ 1,150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,278,195	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PennVest Reimbursement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Funding	\$ 25,000,000	\$ 1,150,000	\$ 25,000,000	\$ -	\$ -	\$ -	\$ 42,278,195	\$ -	\$ -	\$ 31,800,000	\$ -	\$ -	\$ 3,400,000	\$ -
Expenditures														
General Capital Projects Expenditures (Acct# 37-4900)	\$ 778,484	\$ 43,283	\$ 169,888	\$ 183,214	\$ 1,442,857	\$ 265,000	\$ 398,400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bond Fund Expenditures (Acct# 37-4900)	\$ 19,540,293	\$ 13,192,000	\$ 12,107,547	\$ 8,881,025	\$ 3,380,423	\$ 1,059,000	\$ 10,789,263	\$ 21,937,124	\$ 7,812,472	\$ 7,334,836	\$ 6,993,613	\$ 17,318,462	\$ 5,099,667	\$ 697,500
Beaver Creek Expenditure	\$ 5,743,086	\$ 9,100,854	\$ 5,788,838	\$ 1,594,626	\$ 733,153	\$ 285,000	\$ 8,435,779	\$ 12,457,271	\$ 6,848,261	\$ 6,108,228	\$ 524,657	\$ 24,592	\$ 614,534	\$ -
Paxton Creek Expenditure	\$ 13,300,329	\$ 3,598,876	\$ 5,777,047	\$ 5,383,886	\$ 1,533,741	\$ 65,000	\$ -	\$ -	\$ 273,568	\$ 5,066,545	\$ 10,737,001	\$ 25,712	\$ -	\$ -
Spring Creek Expenditure	\$ 16,943	\$ 1,654	\$ -	\$ -	\$ 25,894	\$ 40,000	\$ 608,058	\$ 2,855,429	\$ -	\$ 41,376	\$ 414,000	\$ 5,204,310	\$ 3,486,126	\$ -
Other	\$ 479,935	\$ 481,624	\$ 541,662	\$ 1,932,514	\$ 1,057,636	\$ 669,000	\$ 1,665,426	\$ 6,624,424	\$ 964,211	\$ 911,664	\$ 988,351	\$ 1,952,251	\$ 973,295	\$ 697,500
Total Expenditures	\$ 20,318,777	\$ 13,235,293	\$ 12,277,435	\$ 9,034,239	\$ 4,823,280	\$ 1,324,000	\$ 11,107,663	\$ 21,937,124</						

LPTA
ESTIMATED REVENUE AND EXPENSES

MODIFIED PROJECT SCHEDULE
Option 2
w/ 40 year Bond in 2020

	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
	Projected									
Users and Rates										
Total EDUs	27,438	27,588	27,738	27,888	28,038	28,188	28,338	28,488	28,638	28,788
New EDUs	150	150	150	150	150	150	150	150	150	150
Rate Increase	\$ 7	\$ 7	\$ 7	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6
Quarterly Rate	\$ 196	\$ 203	\$ 210	\$ 216	\$ 222	\$ 228	\$ 233	\$ 238	\$ 243	\$ 248
Annual Rate	\$ 784	\$ 812	\$ 840	\$ 864	\$ 888	\$ 912	\$ 932	\$ 952	\$ 972	\$ 992
Annual Rate Increase	3.7%	3.6%	3.4%	2.9%	2.8%	2.7%	2.2%	2.1%	2.1%	2.1%
Acct 36 - Operating Fund										
Revenue										
Interest Income (Acct# 341.01) (2)	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
PLGIT ARM & Bond Interest (Acct# 341.02.04.05) (2)	\$ 33,910	\$ 264,550	\$ 457,380	\$ 291,210	\$ 141,041	\$ 67,231	\$ 21,464	\$ 21,464	\$ 21,464	\$ 21,464
BAB Interest Subsidy (Acct# 341.03)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Harrisburg City Reimbursement (Acct# 364.01)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sewer Rental Revenue (Acct# 364.10)	\$ 21,511,392	\$ 22,401,456	\$ 23,299,520	\$ 24,095,232	\$ 24,897,744	\$ 25,707,456	\$ 26,411,016	\$ 27,120,576	\$ 27,836,136	\$ 28,557,696
Taxation Fees (Acct# 364.11) (7)	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000
Reimbursements (Acct# 364.12)	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500
Escrow Reimbursements (Acct# 364.13)	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Storm Sewer Reimbursement	\$ 334,254	\$ 344,281	\$ 354,610	\$ 365,248	\$ 376,206	\$ 387,492	\$ 399,116	\$ 411,090	\$ 423,423	\$ 436,125
Miscellaneous Income	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenue	\$ 22,264,055	\$ 23,394,787	\$ 24,496,410	\$ 25,136,191	\$ 25,799,490	\$ 26,546,678	\$ 27,216,097	\$ 27,937,630	\$ 28,665,523	\$ 29,399,785
Expenses										
Administrative Expenses (Acct# 36-4001) (4)	\$ 4,266,000	\$ 4,394,000	\$ 4,526,000	\$ 4,662,000	\$ 4,802,000	\$ 4,946,000	\$ 5,094,000	\$ 5,247,000	\$ 5,404,000	\$ 5,566,000
Operating Expenses (Acct# 36-4206) (5)	\$ 6,179,314	\$ 6,365,311	\$ 6,556,270	\$ 6,752,958	\$ 6,955,647	\$ 7,164,214	\$ 7,378,140	\$ 7,600,514	\$ 7,832,530	\$ 8,063,385
LPTA Expenses (Acct# 429.12 thru 429.34)	\$ 574,354	\$ 591,584	\$ 609,332	\$ 627,612	\$ 646,440	\$ 665,833	\$ 685,908	\$ 706,382	\$ 727,574	\$ 749,401
Swatara Flow Surcharge, Trans & Treat (Acct# 429.35 and 429.36)	\$ 1,694,579	\$ 1,745,416	\$ 1,797,778	\$ 1,851,712	\$ 1,907,263	\$ 1,964,481	\$ 2,023,415	\$ 2,084,118	\$ 2,146,641	\$ 2,211,041
Harrisburg Trans & Treat (Acct# 429.37)	\$ 3,893,247	\$ 4,010,044	\$ 4,130,345	\$ 4,254,256	\$ 4,381,883	\$ 4,513,340	\$ 4,648,740	\$ 4,788,202	\$ 4,931,848	\$ 5,079,504
Paxton Trans (Acct# 429.38)	\$ 17,735	\$ 18,267	\$ 18,815	\$ 19,379	\$ 19,961	\$ 20,559	\$ 21,176	\$ 21,812	\$ 22,466	\$ 23,140
Debt Service (Acct# 36-4700)	\$ 11,934,248	\$ 14,056,122	\$ 14,054,798	\$ 14,053,948	\$ 15,031,266	\$ 15,034,359	\$ 15,031,499	\$ 15,034,658	\$ 15,032,924	\$ 15,030,662
Series of 2013 (Acct# 471 & 472.04)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009A (Acct# 471 & 472.07)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009C (Acct# 471 & 472.09)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series D 2009 (Acct# 471 & 472.10)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010B (Acct# 471 & 472.11)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010C (Acct# 471 & 472.12)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PennVest Interest (Acct# 471 & 472.13)	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 339,745	\$ -	\$ -	\$ -	\$ -	\$ -
Capitalized Interest Expense (Acct# 471 & 472.14)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2014 (Acct# 471 & 472.15)	\$ 1,485,750	\$ 1,487,375	\$ 1,487,250	\$ 1,490,250	\$ 1,486,375	\$ 1,485,625	\$ 1,487,750	\$ 1,487,625	\$ 1,490,125	\$ 1,490,125
Series 2015 (Acct# 471 & 472.16)	\$ 2,206,375	\$ 1,674,750	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2016 (Acct# 471 & 472.17)	\$ 1,385,471	\$ 1,386,468	\$ 1,385,619	\$ 1,384,169	\$ 1,386,575	\$ 1,387,262	\$ 1,386,668	\$ 1,385,262	\$ 1,387,428	\$ 1,388,066
Pennvest 2019 (Acct# 471 & 472.18)	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016
Series 2019 (Acct# 471 & 472.19)	\$ 1,702,600	\$ 2,232,800	\$ 3,907,200	\$ 3,904,800	\$ 4,246,300	\$ 4,589,200	\$ 4,584,800	\$ 4,589,500	\$ 4,583,100	\$ 4,580,500
Series of 2020 (Approx. 40 yrs. 3%)	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559	\$ 1,479,559
Series of 2021 (Approx. 30 yrs. 4.5%)	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251	\$ 1,952,251
Series of 2026 (Approx. 30 yrs. 4.5%)	\$ 208,731	\$ 208,731	\$ 208,731	\$ 208,731	\$ 208,731	\$ 208,731	\$ 208,731	\$ 208,731	\$ 208,731	\$ 208,731
Series of 2029 (Approx. 30 yrs. 5.0%)	\$ -	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677	\$ 2,120,677
Series of 2032 (Approx. 30 yrs. 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ 977,037	\$ 977,037	\$ 977,037	\$ 977,037	\$ 977,037	\$ 977,037
Series of 2038 (Approx. 30 yrs. 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other (Acct# 475)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenses	\$ 22,380,162	\$ 24,815,433	\$ 25,137,068	\$ 25,468,906	\$ 26,788,813	\$ 27,144,571	\$ 27,504,629	\$ 27,882,172	\$ 28,265,453	\$ 28,660,347
Reserves										
Operating Surplus (Deficit)	\$ (116,106)	\$ (1,420,646)	\$ (640,659)	\$ (332,716)	\$ (989,322)	\$ (597,893)	\$ (288,532)	\$ 55,458	\$ 400,070	\$ 739,438
Total Reserve	\$ 11,410,733	\$ 9,990,087	\$ 9,349,428	\$ 9,016,713	\$ 8,027,398	\$ 7,429,497	\$ 7,140,965	\$ 7,196,424	\$ 7,596,493	\$ 8,335,932
Target Reserve at 25% Admin., Operating and Debt Service Expenses	\$ 5,595,040	\$ 6,203,858	\$ 6,284,267	\$ 6,367,227	\$ 6,697,203	\$ 6,786,143	\$ 6,876,157	\$ 6,970,543	\$ 7,066,363	\$ 7,165,087
Acct 37 - Capital Projects										
Funding										
Projected Bond Issue Borrowing	\$ -	\$ 32,600,000	\$ -	\$ -	\$ 14,200,000	\$ -	\$ -	\$ -	\$ -	\$ -
Cash	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PennVest Reimbursement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Funding	\$ -	\$ 32,600,000	\$ -	\$ -	\$ 14,200,000	\$ -				
Expenditures										
General Capital Projects Expenditures (Acct# 37-4800)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bond Fund Expenditures (Acct# 37-4900)	\$ 831,001	\$ 1,016,933	\$ 5,872,435	\$ 16,283,479	\$ 17,939,143	\$ 6,102,209	\$ -	\$ -	\$ -	\$ -
Bleaker Creek Expenditure	\$ -	\$ 287,565	\$ 4,860,557	\$ 15,422,846	\$ 16,957,776	\$ 5,083,011	\$ -	\$ -	\$ -	\$ -
Paxton Creek Expenditure	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Spring Creek Expenditure	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ 831,001	\$ 729,368	\$ 1,011,878	\$ 860,633	\$ 881,367	\$ 1,019,198	\$ -	\$ -	\$ -	\$ -
Total Expenditures	\$ 831,001	\$ 1,016,933	\$ 5,872,435	\$ 16,283,479	\$ 17,939,143	\$ 6,102,209	\$ -	\$ -	\$ -	\$ -
Reserves										
Yr End Bond Fund	\$ 1,845,137	\$ 33,428,204	\$ 27,555,769	\$ 11,272,290	\$ 7,533,147	\$ 1,430,938				

Notes:
 (1) EDUs from Chapter 64 report. Estimated at 150/year after 2021. Projected tapping from the tapping fee basis.
 (2) Interest Income Rate: Bank Funds
 Bonds
 (3) Nearly all costs are associated with transmission/beatment costs from Swatara and results in projected annual CRW percent increases from 2017 - 2020 of 48%, 0%, -17.5%
 (4) Admin budget is increased from 2017 budget because of not capitalizing some sew
 (5) Revenue and expenses projected from Authority's 2016 Budget as base year.
 (7) Starting 2015 balance based based on the reported reconciled 2014 year-end fund t

LPTA
ESTIMATED REVENUE AND EXPENSES

MODIFIED PROJECT SCHEDULE
Option 3

		Users and Rates			Acct 36 - Operating Fund					Acct 37 - Capital Projects		
		Rate Increase	Quarterly Rate	Annual Rate Increase	Total Revenue	Total Expenses	Total Reserve	Operating Surplus (Deficit)	Target Reserve at 25%	Total Funding	Total Expenditures	Yr End Bond Fund
2014	Actual	\$ -	\$ 125	0.0%	\$ 14,114,525	\$ 15,518,692	\$ 15,423,297	\$ (1,404,167)	\$ 3,879,673	\$ 25,000,000	\$ 20,318,777	\$ 20,548,221
2015	Actual	\$ 5	\$ 130	4.0%	\$ 14,342,768	\$ 14,472,068	\$ 15,293,997	\$ (129,300)	\$ 3,618,017	\$ 1,150,000	\$ 13,235,293	\$ 6,783,478
2016	Actual	\$ 9	\$ 139	6.8%	\$ 15,596,754	\$ 16,857,204	\$ 14,033,547	\$ (1,260,450)	\$ 4,214,301	\$ 25,000,000	\$ 12,277,435	\$ 18,457,800
2017	Actual	\$ 9	\$ 148	6.6%	\$ 16,879,123	\$ 15,599,263	\$ 15,313,407	\$ 1,279,860	\$ 3,899,816	\$ -	\$ 9,034,239	\$ 9,423,561
2018	Projected	\$ 5	\$ 153	3.4%	\$ 17,781,983	\$ 17,751,961	\$ 16,426,401	\$ 30,023	\$ 4,437,990	\$ -	\$ 4,823,280	\$ 4,823,280
2019	Projected	\$ -	\$ 153	0.0%	\$ 17,498,767	\$ 16,529,860	\$ 19,451,223	\$ 968,907	\$ 4,132,465	\$ -	\$ 1,324,000	\$ 3,499,280
2020	Projected	\$ -	\$ 153	0.0%	\$ 16,900,223	\$ 16,075,181	\$ 20,276,265	\$ 825,042	\$ 4,018,795	\$ 48,578,195	\$ 11,107,663	\$ 40,969,812
2021	Projected	\$ -	\$ 153	0.0%	\$ 17,290,533	\$ 17,779,456	\$ 19,787,342	\$ (488,923)	\$ 4,444,864	\$ -	\$ 22,120,123	\$ 18,849,689
2022	Projected	\$ 7	\$ 160	4.6%	\$ 17,869,352	\$ 18,683,871	\$ 18,972,823	\$ (814,519)	\$ 4,670,968	\$ -	\$ 12,211,431	\$ 6,638,258
2023	Projected	\$ 7	\$ 167	4.4%	\$ 18,764,221	\$ 21,084,341	\$ 16,652,702	\$ (2,320,120)	\$ 5,271,085	\$ 32,200,000	\$ 11,909,260	\$ 26,928,998
2024	Projected	\$ 7	\$ 174	4.2%	\$ 19,597,140	\$ 21,353,164	\$ 14,896,678	\$ (1,756,024)	\$ 5,338,291	\$ -	\$ 11,936,465	\$ 14,992,533
2025	Projected	\$ 8	\$ 182	4.6%	\$ 20,491,189	\$ 21,633,933	\$ 13,753,934	\$ (1,142,744)	\$ 5,408,483	\$ -	\$ 9,513,675	\$ 5,478,858
2026	Projected	\$ 8	\$ 190	4.4%	\$ 21,576,186	\$ 23,942,880	\$ 11,387,239	\$ (2,366,694)	\$ 5,985,720	\$ 33,000,000	\$ 10,392,452	\$ 28,086,406
2027	Projected	\$ 7	\$ 197	3.7%	\$ 22,505,810	\$ 24,242,117	\$ 9,650,933	\$ (1,736,306)	\$ 6,060,529	\$ -	\$ 16,993,042	\$ 11,093,364
2028	Projected	\$ 7	\$ 204	3.6%	\$ 23,204,562	\$ 24,543,329	\$ 8,312,166	\$ (1,338,767)	\$ 6,135,832	\$ -	\$ 9,333,307	\$ 1,760,057
2029	Projected	\$ 7	\$ 211	3.4%	\$ 24,063,164	\$ 25,111,624	\$ 7,263,705	\$ (1,048,461)	\$ 6,277,906	\$ 3,900,000	\$ 738,731	\$ 4,921,326
2030	Projected	\$ 6	\$ 217	2.8%	\$ 24,882,902	\$ 25,433,260	\$ 6,713,347	\$ (550,358)	\$ 6,358,315	\$ -	\$ 881,609	\$ 4,039,717
2031	Projected	\$ 5	\$ 222	2.3%	\$ 25,569,084	\$ 25,765,098	\$ 6,517,334	\$ (196,013)	\$ 6,441,274	\$ -	\$ 773,787	\$ 3,265,930
2032	Projected	\$ 4	\$ 226	1.8%	\$ 26,149,032	\$ 26,107,968	\$ 6,558,398	\$ 41,064	\$ 6,526,992	\$ -	\$ 935,299	\$ 2,330,631
2033	Projected	\$ 4	\$ 230	1.8%	\$ 26,733,754	\$ 26,463,726	\$ 6,828,426	\$ 270,028	\$ 6,615,932	\$ -	\$ 820,910	\$ 1,509,721
2034	Projected	\$ 4	\$ 234	1.7%	\$ 27,330,630	\$ 26,823,783	\$ 7,335,273	\$ 506,847	\$ 6,705,946	\$ -	\$ -	\$ 1,509,721
2035	Projected	\$ 3	\$ 237	1.3%	\$ 27,824,860	\$ 27,201,327	\$ 7,958,806	\$ 623,533	\$ 6,800,332	\$ -	\$ -	\$ 1,509,721
2036	Projected	\$ 2	\$ 239	0.8%	\$ 28,208,496	\$ 27,584,608	\$ 8,582,695	\$ 623,888	\$ 6,896,152	\$ -	\$ -	\$ 1,509,721
2037	Projected	\$ 2	\$ 241	0.8%	\$ 28,594,903	\$ 27,979,502	\$ 9,198,096	\$ 615,401	\$ 6,994,875	\$ -	\$ -	\$ 1,509,721
2038	Projected	\$ 1	\$ 242	0.4%	\$ 28,868,339	\$ 28,391,228	\$ 9,675,206	\$ 477,110	\$ 7,097,807	\$ -	\$ -	\$ 1,509,721
2039	Projected	\$ -	\$ 242	0.0%	\$ 29,251,518	\$ 31,102,866	\$ 7,823,859	\$ (1,851,347)	\$ 7,775,716	\$ 33,300,000	\$ 3,366,248	\$ 31,443,473
2040	Projected	\$ -	\$ 242	0.0%	\$ 29,417,821	\$ 26,949,724	\$ 10,291,956	\$ 2,468,097	\$ 6,737,431	\$ -	\$ 28,970,816	\$ 2,472,657
2041	Projected	\$ -	\$ 242	0.0%	\$ 29,352,702	\$ 26,773,167	\$ 12,871,491	\$ 2,579,535	\$ 6,693,292	\$ -	\$ 977,959	\$ 1,494,698
2042	Projected	\$ -	\$ 242	0.0%	\$ 29,505,293	\$ 27,021,802	\$ 15,354,982	\$ 2,483,491	\$ 6,755,451	\$ -	\$ -	\$ 1,494,698
2043	Projected	\$ -	\$ 242	0.0%	\$ 29,665,661	\$ 27,497,107	\$ 17,523,536	\$ 2,168,553	\$ 6,874,277	\$ -	\$ -	\$ 1,494,698
2044	Projected	\$ -	\$ 242	0.0%	\$ 29,826,484	\$ 27,984,451	\$ 19,365,569	\$ 1,842,033	\$ 6,996,113	\$ -	\$ -	\$ 1,494,698

LPTA
ESTIMATED REVENUE AND EXPENSES

MODIFIED PROJECT SCHEDULE
Option 3

	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected
Users and Rates														
Total EDUs	24,804	24,904	25,147	25,350	25,801	26,256	26,280	26,434	26,584	26,727	26,838	26,988	27,138	27,288
New EDUs		100	243	251	251	214	200	154	150	111	150	150	150	150
Rate Increase	\$ -	\$ 9	\$ 9	\$ 9	\$ 9	\$ -	\$ -	\$ -	\$ 7	\$ 7	\$ 7	\$ 8	\$ 8	\$ 7
Quarterly Rate	\$ 125	\$ 130	\$ 130	\$ 148	\$ 153	\$ 153	\$ 153	\$ 160	\$ 167	\$ 174	\$ 182	\$ 190	\$ 197	\$ 197
Annual Rate	\$ 500	\$ 520	\$ 555	\$ 592	\$ 612	\$ 612	\$ 612	\$ 640	\$ 668	\$ 696	\$ 728	\$ 760	\$ 788	\$ 788
Annual Rate Increase	4.0%	4.0%	6.6%	6.6%	3.4%	0.0%	0.0%	4.6%	4.4%	4.2%	4.6%	4.4%	3.7%	3.7%
Acct 36 - Operating Fund														
Revenue														
Interest Income (Acct# 341.01) ⁽²⁾	\$ 3,266	\$ 12,201	\$ 10,345	\$ 25,964	\$ 53,675	\$ 45,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
PLGIT ARM & Bond Interest (Acct# 341.02, 04, 05) ⁽²⁾	\$ 22,756	\$ 38,077	\$ 121,787	\$ 155,255	\$ 155,255	\$ 45,000	\$ 35,000	\$ 448,646	\$ 51,000	\$ 51,000	\$ 314,411	\$ 153,535	\$ 251,739	\$ 293,849
BAB Interest Subsidy (Acct# 341.03)	\$ 868,851	\$ 867,815	\$ 872,128	\$ 871,660	\$ 874,469	\$ 871,659	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Harrisburg City Reimbursement (Acct# 364.01)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 83,520	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sewer Rental Revenue (Acct# 364.10)	\$ 12,903,306	\$ 13,182,239	\$ 14,406,796	\$ 15,484,910	\$ 16,028,300	\$ 15,878,780	\$ 16,043,368	\$ 16,177,608	\$ 17,013,760	\$ 17,853,636	\$ 18,679,248	\$ 19,647,264	\$ 20,624,080	\$ 21,502,944
Tasolins Fees (Acct# 364.11) ⁽¹⁾	\$ 245,205	\$ 218,405	\$ 476,889	\$ 480,320	\$ 480,320	\$ 620,312	\$ 428,000	\$ 428,000	\$ 300,000	\$ 286,000	\$ 222,000	\$ 300,000	\$ 300,000	\$ 300,000
Reimbursements (Acct# 364.12)	\$ 11,076	\$ 15,179	\$ 21,233	\$ 6,950	\$ 10,478	\$ 10,478	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500
Escrow Reimbursements (Acct# 364.13)	\$ 60,515	\$ 8,761	\$ 47,585	\$ 4,252	\$ 3,410	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Storm Sewer Reimbursement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 263,863	\$ 271,779	\$ 279,932	\$ 288,330	\$ 296,800	\$ 305,890	\$ 315,066	\$ 324,518	\$ 324,518
Miscellaneous Income	\$ (450)	\$ -	\$ -	\$ 2,235	\$ 36,085	\$ 106,808	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenue	\$ 14,114,525	\$ 14,342,768	\$ 15,596,754	\$ 16,879,123	\$ 17,781,983	\$ 17,498,767	\$ 16,900,223	\$ 17,290,533	\$ 17,069,352	\$ 18,764,221	\$ 19,597,140	\$ 20,491,189	\$ 21,576,186	\$ 22,505,810
Expenses														
Administrative Expenses (Acct# 36-4001) ⁽⁴⁾	\$ 2,891,215	\$ 2,444,422	\$ 2,859,863	\$ 3,015,893	\$ 3,139,942	\$ 3,053,530	\$ 3,387,885	\$ 3,469,000	\$ 3,571,000	\$ 3,890,000	\$ 3,790,000	\$ 3,904,000	\$ 4,021,000	\$ 4,142,000
Operating Expenses (Acct 36-4300) ⁽⁵⁾	\$ 8,507,853	\$ 7,338,174	\$ 8,553,035	\$ 7,405,179	\$ 7,923,516	\$ 5,299,229	\$ 5,273,883	\$ 5,024,835	\$ 5,175,589	\$ 5,330,848	\$ 5,490,773	\$ 5,655,496	\$ 5,825,161	\$ 5,999,916
LPTA Expenses (Acct# 429.12 thru 429.34)	\$ 3,256,102	\$ 3,390,158	\$ 3,641,644	\$ 3,609,168	\$ 4,347,542	\$ 383,800	\$ 453,400	\$ 467,002	\$ 481,012	\$ 495,442	\$ 510,306	\$ 525,615	\$ 541,383	\$ 557,625
Swatara Flow Surcharge, Trans & Treat (Acct# 429.35 and 429.36)	\$ 1,644,858	\$ 1,581,344	\$ 1,417,573	\$ 1,401,900	\$ 1,437,124	\$ 1,432,862	\$ 1,377,716	\$ 1,377,847	\$ 1,415,183	\$ 1,461,758	\$ 1,505,611	\$ 1,550,779	\$ 1,597,303	\$ 1,645,222
Harrisburg Trans & Treat (Acct# 429.37)	\$ 3,584,130	\$ 2,353,959	\$ 3,281,127	\$ 2,381,435	\$ 2,089,819	\$ 3,468,567	\$ 3,468,567	\$ 3,165,566	\$ 3,260,533	\$ 3,358,349	\$ 3,459,099	\$ 3,562,872	\$ 3,669,758	\$ 3,779,851
Pendang Trans (Acct# 429.38)	\$ 12,763	\$ 12,715	\$ 12,691	\$ 12,676	\$ 12,731	\$ 14,000	\$ 14,000	\$ 14,853	\$ 15,298	\$ 15,757	\$ 16,230	\$ 16,717	\$ 17,218	\$ 17,718
Debt Service (Acct# 36-4700)	\$ 4,329,624	\$ 4,689,472	\$ 5,244,506	\$ 5,178,492	\$ 6,688,503	\$ 6,877,001	\$ 7,413,633	\$ 9,285,821	\$ 9,935,291	\$ 12,073,493	\$ 12,072,391	\$ 12,074,437	\$ 14,096,719	\$ 14,100,201
Series of 2013 (Acct# 471 & 472.04)	\$ 158,300	\$ 158,300	\$ 152,400	\$ 138,050	\$ 121,300	\$ 1,394,050	\$ 1,437,450	\$ 1,484,400	\$ 1,515,000	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009A (Acct# 471 & 472.07)	\$ 63,093	\$ 47,943	\$ 34,937	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009C (Acct# 471 & 472.09)	\$ 550,890	\$ 275,420	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series D 2009 (Acct# 471 & 472.10)	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ 2,675,034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010B (Acct# 471 & 472.11)	\$ 57,500	\$ 30,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010C (Acct# 471 & 472.12)	\$ 2,807	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PennVest Interest (Acct# 471 & 472.13)	\$ 208,492	\$ 214,422	\$ 209,900	\$ 226,781	\$ 241,574	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495
Capitalized Interest Expense (Acct# 471 & 472.14)	\$ (514,442)	\$ (298,359)	\$ (189,955)	\$ (189,955)	\$ (189,955)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2014 (Acct# 471 & 472.15)	\$ 860,906	\$ 1,048,173	\$ 1,043,723	\$ 1,035,291	\$ 1,029,335	\$ 1,487,016	\$ 1,486,879	\$ 1,486,872	\$ 1,486,054	\$ 1,490,436	\$ 1,488,036	\$ 1,488,091	\$ 1,485,451	\$ 1,486,887
Series 2015 (Acct# 471 & 472.16)	\$ -	\$ 295,819	\$ 459,025	\$ 458,925	\$ 454,925	\$ 510,375	\$ 494,725	\$ 459,526	\$ 607,776	\$ 2,146,674	\$ 2,209,075	\$ 2,205,113	\$ 2,204,150	\$ 2,204,150
Series 2016 (Acct# 471 & 472.17)	\$ -	\$ -	\$ 795,058	\$ 906,731	\$ 897,032	\$ 1,387,131	\$ 1,387,051	\$ 1,386,432	\$ 1,385,032	\$ 1,387,732	\$ 1,384,532	\$ 1,385,432	\$ 1,386,385	\$ 1,386,919
PennVest 2019 (Acct# 471 & 472.18)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44,900	\$ 209,766	\$ 209,766	\$ 675,704	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016
Series 2019 (Acct# 471 & 472.19)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,677,293	\$ 1,787,150	\$ 1,787,250	\$ 1,782,550	\$ 1,757,550	\$ 1,702,550	\$ 1,702,550	\$ 1,702,550	\$ 1,702,225
Series of 2020 (Approx. 30 yrs. 3%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,800,980	\$ 1,800,980	\$ 1,800,980	\$ 1,800,980	\$ 1,800,980	\$ 1,800,980	\$ 1,800,980
Series of 2023 (Approx. 30 yrs. 4.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,976,807,688	\$ 1,976,808	\$ 1,976,808	\$ 1,976,808	\$ 1,976,808
Series of 2026 (Approx. 30 yrs. 4.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,025,920,92	\$ 2,025,921
Series of 2029 (Approx. 30 yrs. 5.0%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series of 2032 (Approx. 30 yrs. 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series of 2038 (Approx. 30 yrs. 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other (Acct#475)	\$ 466,044	\$ 281,429	\$ 255,776	\$ (110,078)	\$ 1,402,886	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenses	\$ 15,518,692	\$ 14,472,068	\$ 16,857,204	\$ 15,599,263	\$ 17,751,061	\$ 16,529,860	\$ 16,075,181	\$ 17,779,456	\$ 18,683,871	\$ 21,084,341	\$ 21,353,164	\$ 21,633,933	\$ 23,942,880	\$ 24,242,117
Reserves														
Operating Surplus (Deficit)	\$ (1,404,167)	\$ (129,300)	\$ (1,260,450)	\$ 1,279,860	\$ 30,023	\$ 968,907	\$ 825,402	\$ (488,923)	\$ (814,519)	\$ (2,320,120)	\$ (1,756,024)	\$ (1,142,744)	\$ (2,366,694)	\$ (1,736,306)
Total Reserve	\$ 15,423,297	\$ 15,293,997	\$ 14,043,547	\$ 15,313,407	\$ 16,426,401	\$ 19,451,223	\$ 20,276,265	\$ 19,787,342	\$ 18,972,823	\$ 16,652,702	\$ 14,896,878	\$ 13,753,934	\$ 11,387,239	\$ 9,650,933
Target Reserve at 25% Admin., Operating and Debt Service Expenses	\$ 3,879,673	\$ 3,618,017	\$ 4,214,301	\$ 3,899,816	\$ 4,437,990	\$ 4,132,465	\$ 4,018,795	\$ 4,444,864	\$ 4,670,968	\$ 5,271,085	\$ 5,338,291	\$ 5,408,483	\$ 5,985,720	\$ 6,060,529
Acct 37 - Capital Projects														
Funding														
Projected Bond Issue Borrowing	\$ 25,000,000	\$ -	\$ 25,000,000	\$ -	\$ -	\$ -	\$ 35,300,000	\$ -	\$ -	\$ 32,200,000	\$ -	\$ -	\$ 33,000,000	\$ -
Cash	\$ -	\$ 1,150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,278,195	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PennVest Reimbursement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Funding	\$ 25,000,000	\$ 1,150,000	\$ 25,000,000	\$ -	\$ -	\$ -	\$ 48,678,195	\$ -	\$ -	\$ 32,200,000	\$ -	\$ -	\$ 33,000,000	\$ -
Expenditures														
General Capital Projects Expenditures (Acct# 37-4900)	\$ 778,484	\$ 43,283	\$ 169,888	\$ 183,214	\$ 1,442,857	\$ 265,000	\$ 398,400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bond Fund Expenditures (Acct# 37-4900)	\$ 19,540,293	\$ 13,192,000	\$ 12,107,547	\$ 8,881,025	\$ 3,380,423	\$ 1,059,000	\$ 10,789,263	\$ 22,120,123	\$ 12,211,431	\$ 11,909,260	\$ 11,936,465	\$ 9,513,675	\$ 10,392,452	\$ 16,993,042
Beaver Creek Expenditure	\$ 5,743,086	\$ 9,100,854	\$ 5,788,838	\$ 1,564,626	\$ 733,153	\$ 285,000	\$ 8,435,779	\$ 12,457,271	\$ 7,412,853	\$ 6,112,284	\$ 7,727,713	\$ 3,462,086	\$ 8,620,144	\$ 16,295,542
Paxton Creek Expenditure	\$ 13,300,329	\$ 3,588,876	\$ 5,777,047	\$ 5,383,886	\$ 1,533,741	\$ 65,000	\$ -	\$ -	\$ 4,448,081	\$ 7,209,992	\$ 12,343	\$ -	\$ -	\$ -
Spring Creek Expenditure	\$ 16,943	\$ 1,654	\$ -	\$ -	\$ 25,894	\$ 40,000	\$ 608,058	\$ 2,855,429	\$ -	\$ 252,720	\$ 2,733,394	\$ 5,055,249	\$ 857,830	\$ -
Other	\$ 479,935	\$ 481,624	\$ 541,662	\$ 1,932,514	\$ 1,057,636	\$ 669,000	\$ 1,665,426	\$ 6,624,424	\$ 1,134,240	\$ 1,095,195	\$ 1,220,366	\$ 985,997	\$ 905,478	\$ 697,500
Total Expenditures	\$ 20,318,777	\$ 13,235,293	\$ 12,227,435	\$ 9,034,239	\$ 4,823,280	\$ 1,324,000	\$ 11,							

LPTA
ESTIMATED REVENUE AND EXPENSES

MODIFIED PROJECT SCHEDULE
Option 3

	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
	Projected									
Users and Rates										
Total EDUs	27,438	27,588	27,738	27,888	28,038	28,188	28,338	28,488	28,638	28,788
New EDUs	150	150	150	150	150	150	150	150	150	150
Rate Increase	\$ 7	\$ 7	\$ 6	\$ 5	\$ 4	\$ 4	\$ 4	\$ 3	\$ 2	\$ 2
Quarterly Rate	\$ 204	\$ 211	\$ 217	\$ 222	\$ 225	\$ 230	\$ 234	\$ 237	\$ 239	\$ 241
Annual Rate	\$ 816	\$ 844	\$ 868	\$ 888	\$ 904	\$ 920	\$ 936	\$ 948	\$ 956	\$ 964
Annual Rate Increase	3.6%	3.4%	2.8%	2.3%	1.8%	1.8%	1.7%	1.3%	0.8%	0.8%
Acct 36 - Operating Fund										
Revenue										
Interest Income (Acct# 341.01) ⁽²⁾	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
PLGIT ARM & Bond Interest (Acct# 341.02.04.05) ⁽²⁾	\$ 96,401	\$ 50,110	\$ 67,208	\$ 54,792	\$ 41,974	\$ 28,803	\$ 22,646	\$ 22,646	\$ 22,646	\$ 22,646
BAB Interest Subsidy (Acct# 341.03)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Harrisburg City Reimbursement (Acct# 364.01)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sewer Rental Revenue (Acct# 364.10)	\$ 22,389,408	\$ 23,284,272	\$ 24,076,584	\$ 24,764,544	\$ 25,346,352	\$ 25,932,960	\$ 26,524,368	\$ 27,006,624	\$ 27,377,928	\$ 27,751,632
Taxation Fees (Acct# 364.11) ⁽⁷⁾	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000
Reimbursements (Acct# 364.12)	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500	\$ 4,500
Escrow Reimbursements (Acct# 364.13)	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000
Storm Sewer Reimbursement	\$ 334,254	\$ 344,281	\$ 354,610	\$ 365,248	\$ 376,206	\$ 387,492	\$ 399,116	\$ 411,090	\$ 423,423	\$ 436,125
Miscellaneous Income	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Revenue	\$ 23,204,562	\$ 24,063,164	\$ 24,882,902	\$ 25,569,084	\$ 26,149,032	\$ 26,733,754	\$ 27,330,630	\$ 27,824,860	\$ 28,208,496	\$ 28,594,903
Expenses										
Administrative Expenses (Acct# 36-4001) ⁽⁴⁾	\$ 4,266,000	\$ 4,394,000	\$ 4,526,000	\$ 4,662,000	\$ 4,802,000	\$ 4,946,000	\$ 5,094,000	\$ 5,247,000	\$ 5,404,000	\$ 5,566,000
Operating Expenses (Acct# 36-4206) ⁽⁵⁾	\$ 6,179,314	\$ 6,365,311	\$ 6,556,270	\$ 6,752,958	\$ 6,955,647	\$ 7,164,214	\$ 7,378,140	\$ 7,600,514	\$ 7,828,530	\$ 8,063,385
LPTA Expenses (Acct# 429.12 thru 429.34)	\$ 574,354	\$ 591,584	\$ 609,332	\$ 627,612	\$ 646,440	\$ 665,833	\$ 685,908	\$ 706,382	\$ 727,574	\$ 749,401
Swatara Flow Surcharge, Trans & Treat (Acct# 429.35 and 429.36)	\$ 1,694,579	\$ 1,745,416	\$ 1,797,778	\$ 1,851,712	\$ 1,907,263	\$ 1,964,481	\$ 2,023,415	\$ 2,084,118	\$ 2,146,641	\$ 2,211,041
Harrisburg Trans & Treat (Acct# 429.37)	\$ 3,893,247	\$ 4,010,044	\$ 4,130,345	\$ 4,254,256	\$ 4,381,883	\$ 4,513,340	\$ 4,648,740	\$ 4,788,202	\$ 4,931,848	\$ 5,079,504
Paxton Trans (Acct# 429.38)	\$ 17,735	\$ 18,267	\$ 18,815	\$ 19,379	\$ 19,961	\$ 20,559	\$ 21,176	\$ 21,812	\$ 22,466	\$ 23,140
Debt Service (Acct# 36-4700)	\$ 14,097,416	\$ 14,352,313	\$ 14,359,889	\$ 14,350,119	\$ 14,350,420	\$ 14,353,512	\$ 14,350,643	\$ 14,353,812	\$ 14,352,078	\$ 14,359,116
Series of 2013 (Acct# 471 & 472.04)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009A (Acct# 471 & 472.07)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2009C (Acct# 471 & 472.09)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series D 2009 (Acct# 471 & 472.10)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010B (Acct# 471 & 472.11)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2010C (Acct# 471 & 472.12)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PennVest Interest (Acct# 471 & 472.13)	\$ 679,495	\$ 679,495	\$ 679,495	\$ 679,495	\$ 339,745	\$ -	\$ -	\$ -	\$ -	\$ -
Capitalized Interest Expense (Acct# 471 & 472.14)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2014 (Acct# 471 & 472.15)	\$ 1,485,750	\$ 1,487,375	\$ 1,487,250	\$ 1,490,250	\$ 1,486,375	\$ 1,485,625	\$ 1,487,750	\$ 1,487,625	\$ 1,490,125	\$ 1,490,125
Series 2015 (Acct# 471 & 472.16)	\$ 2,206,375	\$ 1,674,750	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 2016 (Acct# 471 & 472.17)	\$ 1,385,471	\$ 1,386,468	\$ 1,385,619	\$ 1,384,169	\$ 1,386,575	\$ 1,387,262	\$ 1,386,668	\$ 1,385,262	\$ 1,387,428	\$ 1,388,066
Pennvest 2019 (Acct# 471 & 472.18)	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016	\$ 834,016
Series 2019 (Acct# 471 & 472.19)	\$ 1,702,600	\$ 2,232,800	\$ 3,007,200	\$ 3,904,800	\$ 4,246,300	\$ 4,589,200	\$ 4,584,800	\$ 4,589,500	\$ 4,583,100	\$ 4,580,500
Series of 2020 (Approx. 30 yrs, 3%)	\$ 1,500,980	\$ 1,800,380	\$ 1,800,980	\$ 1,800,980	\$ 1,800,980	\$ 1,800,980	\$ 1,800,980	\$ 1,800,980	\$ 1,800,980	\$ 1,800,980
Series of 2020 (Approx. 30 yrs, 4.5%)	\$ 1,976,808	\$ 1,976,808	\$ 1,976,808	\$ 1,976,808	\$ 1,976,808	\$ 1,976,808	\$ 1,976,808	\$ 1,976,808	\$ 1,976,808	\$ 1,976,808
Series of 2026 (Approx. 30 yrs, 4.5%)	\$ 2,025,921	\$ 2,025,921	\$ 2,025,921	\$ 2,025,921	\$ 2,025,921	\$ 2,025,921	\$ 2,025,921	\$ 2,025,921	\$ 2,025,921	\$ 2,025,921
Series of 2029 (Approx. 30 yrs, 5.0%)	\$ -	\$ 253,700.60	\$ 253,701	\$ 253,701	\$ 253,701	\$ 253,701	\$ 253,701	\$ 253,701	\$ 253,701	\$ 253,701
Series of 2032 (Approx. 30 yrs, 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series of 2038 (Approx. 30 yrs, 5.5%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other (Acct#475)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Expenses	\$ 24,543,329	\$ 25,111,624	\$ 25,433,260	\$ 25,765,098	\$ 26,107,968	\$ 26,463,726	\$ 26,823,783	\$ 27,201,327	\$ 27,584,608	\$ 27,979,502
Reserves										
Operating Surplus (Deficit)	\$ 11,338,767	\$ (1,048,461)	\$ (50,358)	\$ (196,013)	\$ 41,064	\$ 270,028	\$ 506,847	\$ 623,533	\$ 623,888	\$ 615,401
Total Reserve	\$ 8,312,166	\$ 7,263,705	\$ 6,713,347	\$ 6,517,334	\$ 6,558,398	\$ 6,828,426	\$ 7,335,273	\$ 7,958,806	\$ 8,582,695	\$ 9,198,096
Target Reserve at 25% Admin., Operating and Debt Service Expenses	\$ 6,135,832	\$ 6,277,906	\$ 6,358,315	\$ 6,441,274	\$ 6,526,992	\$ 6,615,932	\$ 6,705,946	\$ 6,800,332	\$ 6,896,152	\$ 6,994,675
Acct 37 - Capital Projects										
Funding										
Projected Bond Issue Borrowing	\$ 3,900,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cash	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PennVest Reimbursement	\$ -	\$ 3,900,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Funding	\$ -	\$ 3,900,000	\$ -							
Expenditures										
General Capital Projects Expenditures (Acct# 37-4800)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bond Fund Expenditures (Acct# 37-4900)	\$ 9,333,307	\$ 738,731	\$ 881,609	\$ 773,787	\$ 935,299	\$ 820,910	\$ -	\$ -	\$ -	\$ -
Bisler Creek Expenditure	\$ 8,266,289	\$ 9,363	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Paxton Creek Expenditure	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Spring Creek Expenditure	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ 1,067,018	\$ 729,368	\$ 881,609	\$ 773,787	\$ 935,299	\$ 820,910	\$ -	\$ -	\$ -	\$ -
Total Expenditures	\$ 9,333,307	\$ 738,731	\$ 881,609	\$ 773,787	\$ 935,299	\$ 820,910	\$ -	\$ -	\$ -	\$ -
Reserves										
Yr End Bond Fund	\$ 1,760,057	\$ 4,921,326	\$ 4,039,717	\$ 3,265,930	\$ 2,330,631	\$ 1,509,721				

Notes:
 (1) EDUs from Chapter 64 report. Estimated at 150/year after 2021. Projected tapping from the tapping fee basis.
 (2) Interest Income Rate: Bank Funds
 Bonds
 (3) Nearly all costs are associated with transmission/beatment costs from Swatara and results in projected annual CRW percent increases from 2017 - 2020 of 48%, 0%, -17.5
 (4) Admin budget is increased from 2017 budget because of not capitalizing some sew
 (5) Revenue and expenses projected from Authority's 2016 Budget as base year.
 (7) Starting 2015 balance based based on the reported reconciled 2014 year-end fund t

SECOND AMENDMENT TO THE PAXTON CREEK INTERCEPTOR AGREEMENT

THIS SECOND AMENDMENT TO THE PAXTON CREEK INTERCEPTOR AGREEMENT, made the ____ day of _____, in the year two thousand twenty (2020), by and between Lower Paxton Township Authority (LPTA) and Susquehanna Township Authority (STA)(collectively the “Parties” as follows:

BACKGROUND

A. On January 13, 1969 LPTA and STA entered into an agreement relating to the construction, ownership, use and payment of a sewer interceptor to be constructed in the Township of Susquehanna for the purpose of receiving sewage from collections within the Paxton Creek Drainage Area of Lower Paxton Township and within portions of Susquehanna Township.

B. On May 1, 1971 the parties entered into an amendment to the agreement in order to award construction contracts and allocate the share of the net project costs.

C. The allocated in pipe capacity of the interceptor was established at a daily peak flow of 7.79 million gallons per day (MGD) to LPTA and 4.49 MGD to STA, a total of 12.28 MGD.

D. The engineer for STA and LPTA has performed hydraulic capacity calculations which has determined that the actual safe carry capacity is 20 MGD.

E. The parties desire to further amend the agreement to provide for revised interceptor capacities based on current engineering studies and allocate the additional capacity of 7.72 MGD to each party.

F. The parties desire to allocate the additional safe carry capacity based on the agreement split of 59% LPTA and 41% STA. Based on this percentage split the LPTA capacity shall increase 4.55 MGD (59% of 7.72 MGD) and STA shall receive an increase in capacity of 3.17 MGD (41% of 7.72 MGD).

Accordingly, in consideration of the above recitals and the mutual covenants herein and intending to be legally bound hereby, the Parties agree as follows:

1. The allocated capacity of the original 1969 agreement of 12.28 MGD is hereby amended to 20 MGD, the safe carrying capacity. LPTA's daily peak flow rate of 7.79 MGD is hereby increased by 4.55 MGD to 12.34 MGD and STA's daily peak flow rate of 4.49 MGD is hereby increased by 3.17 MGD to 7.66 MGD.

2. All other terms and conditions of the agreement dated January 13, 1969 and the amendment dated May 1, 1971 shall remain in full force and effect.

3. This Second Amendment may be excuted in one or more counterparts, each of which is an original, and all or which constitute only one agreement between the parties.

ATTEST:

SUSQUEHANNA TOWNSHIP AUTHORITY

By _____

(SEAL)

ATTEST:

LOWER PAXTON TOWNSHIP AUTHORITY

By _____

(SEAL)

**MAY 2020 ALLOCATION OF PAXTON CREEK INTERCEPTOR
20.0 MGD SURCHARGE CARRYING CAPACITY ¹**

	Previously Allocated In Pipe Capacity ²		Additional Surcharge Capacity Distribution ³		Total Surcharge Capacity Distribution	
	(MGD)	%	(MGD)	%	(MGD)	%
LPTA	7.79	63.4%	4.55	59.0%	12.34	61.7%
STA	4.49	36.6%	3.17	41.0%	7.66	38.3%
Total	12.28		7.72		20.00	

1. 20 MGD surcharge capacity presented in GHD's "LPTA/STA Paxton Creek Surcharge Capacity Analysis" Memo dated July 31, 2019.

2. Allocation of 12.28 MGD in-pipe design capacity from Jan 13, 1969 LPTA/STA Paxton Creek agreement.

3. Additional capacity agreed share LPTA 59% and STA 41% based on Paxton Creek interceptor cost sharing.

LOWER PAXTON TOWNSHIP AUTHORITY
Dauphin County, Pennsylvania

RESOLUTION 20-05-01

WHEREAS, the Lower Paxton Township Authority (the “Authority”) is a municipality authority, existing under the Municipality Authorities Act, as amended; and

WHEREAS, the Authority is required to replace portions of the sanitary sewer system, including private sewers, as part of a Corrective Action Plan (CAP) with the Pennsylvania Department of Environmental Protection (PADEP); and

WHEREAS, it is necessary to acquire a temporary construction easement for purposes of the replacement of the private sanitary sewer line on the property now owned or formerly owned by Stephen E. Hunt at 5719 Cloverdale Road; and

WHEREAS, in order to ensure compliance with the CAP with the PADEP, it has been deemed to be in the public interest for the Authority to acquire, by purchase or eminent domain proceedings, a temporary construction easement in such lands as the Authority deems necessary for continued effective sanitary sewer service; and

WHEREAS, the Board of the Authority, upon the recommendation of its Manager and the advice of its engineer and other advisors, has selected temporary construction easement to be acquired, all as more fully described on Exhibit “A” hereto, as attached and to be acquired for the purposes of providing an improved private sanitary sewer line.

NOW THEREFORE, the Authority hereby adopts the following resolution:

1. The Chairman, Secretary and other such officers as they may designate, through the Solicitor of the Authority and with the assistance of such other advisors as the Manager deems appropriate, shall contact the owner thereof and negotiate the acquisition of the temporary construction easement described in Exhibit “A” on terms and conditions deemed advantageous to the Authority in light of the public objectives of the Authority and the necessity to acquire the temporary construction easement as soon as possible, and to settle on the acquisition of, make proper compensation and full payment for and secure the temporary construction easement in order to complete the sanitary sewer construction project.
2. The proper officers of the Authority are hereby authorized and directed to do all things necessary and desirable to implement the above action by the Authority, including the fixing of the fair market value for the temporary construction easement, making an offer to acquire the easement by agreement and to order the preparation and execution of any and all such documentation necessary to accomplish this acquisition.

3. In the event that the Authority cannot expeditiously agree on terms of the acquisition of the temporary construction easement with the owners of the property in question, then the Chairman and Secretary, with the assistance of the Solicitor and such engineering and other assistance as is deemed appropriate by the officers of the Authority, are hereby authorized and directed to take the temporary construction easement by exercise of the eminent domain power of the Authority for sanitary sewer purposes under the Municipality Authorities Act, as amended and supplemented from time to time and under the Eminent Domain Code, as amended and supplemented from time to time.
4. Proper officers of the Authority are authorized and directed to execute, file and deliver such documents and to do such other things as may be necessary to carry out the intent and purpose of this Resolution, including, but not limited to a Declaration of Taking.
5. This Resolution shall become effective immediately.
6. In the event any provision, section, sentence, clause or part of this Resolution shall be held invalid, such invalidity shall not affect or impair the remaining provisions, sections, sentences, clauses or parts of this Resolution, it being the intent of the Township that such remainder shall be and shall remain in full force and effect.

DULY ADOPTED as Resolution 20-05-01 this 26th day of May 2020 by the Board of the Lower Paxton Township Authority.

ATTEST:

LOWER PAXTON TOWNSHIP AUTHORITY

Secretary

By: _____
Chairman

CERTIFICATE

I, the undersigned, Secretary of the Lower Paxton Township Authority (the “Authority”), certify that the foregoing Resolution was adopted by a majority of the entire Board of the Authority at a meeting duly convened according to law and held on May 26, 2020, at which meeting a quorum was present; said Resolution was adopted by an aye or nay vote; said Resolution and the vote thereon showing how each member voted have been recorded in the minutes of said Board; and said Resolution remains in effect, unaltered and unamended as of the date of this Certificate.

IN WITNESS WHEREOF, I set my hand and official seal of the Authority, this 26th day of May 2020.

Chris Judd, Secretary

(SEAL)

RES #	PID	house_n	street_nam	Owner name
20-05-01	35-095-073	5719	CLOVERDALE RD	STEPHEN E HUNT
20-05-02	35-095-038	5727	CLOVERDALE RD	JASON S & SUSAN C CARST
20-05-03	35-095-039	5729	CLOVERDALE RD	JOSEOH N & DEBORAH A BAGGIO
20-05-04	35-095-036	5734	CLOVERDALE RD	YURIY I & VICTORIA V NEBOGA
20-05-05	35-045-237	5486	KENWOOD AVE	HARRIE LEE SCOTT JR
20-05-06	35-045-239	5494	KENWOOD AVE	PATRICIA A REED
20-05-07	35-045-238	5496	KENWOOD AVE	ALLYN E SHOLLENBERGER
20-05-08	35-095-062	5734	KENWOOD AVE	TILMAN P & TAVIA L LARSON
20-05-09	35-095-056	5739	KENWOOD AVE	JOSEPH T & HEATHER D WILSON
20-05-10	35-095-055	5741	KENWOOD AVE	RONALD J & LAUREL A NEIDIG
20-05-11	35-095-050	5742	KENWOOD AVE	MARJORIE & WILLIAM F HOLMES JR
20-05-12	35-096-100	5721	MEADOWBROOK DR	SARA A WHITNEY & KENNETH M SOLLENBERGER
20-05-13	35-096-101	5723	MEADOWBROOK DR	DAMON R & KIERSTEN B GARCED
20-05-14	35-096-109	5726	MEADOWBROOK DR	SKYLER L & ALISHA SEILHAMER
20-05-15	35-095-009	5734	MEADOWBROOK DR	JOANNE L & GARY G LAFRANCE
20-05-16	35-095-013	5742	MEADOWBROOK DR	RONALD A & FENG YANG PAGLIASSOTTI
20-05-17	35-095-014	5744	MEADOWBROOK DR	ANITA L & TIMOTHY E OSBORNE SR
20-05-18	35-095-015	5800	MEADOWBROOK DR	ANTHONY J & ELIZABETH A HANLON
20-05-19	35-043-067	5550	MERIVALE CT	WILLIAM W BOOTHE JR
20-05-20	35-043-060	5575	MERIVALE CT	DAVE H & LINH T NGUYEN
20-05-21	35-096-079	5707	OAK AVE	DEVI CHAPAGAI
20-05-22	35-096-092	5708	OAK AVE	PAULA J & OTIS A THOMAS JR
20-05-23	35-096-080	5709	OAK AVE	CODY B & CHRISTINE M WILBERT
20-05-24	35-096-082	5713	OAK AVE	DONNA A GARRETTSON
20-05-25	35-095-101	5921	PALMER DR	RICHARD B & MELANIE H WILSON
20-05-26	35-095-077	5926	PALMER DR	DOUGLAS R & NORA A HOLLOBAUGH
20-05-27	35-095-076	5928	PALMER DR	DAMBER B & LALITA GURUNG
20-05-28	35-095-017	384	RABUCK DR	JACQUELINE M & TIMOTHY J REIGEL
20-05-29	35-095-032	392	RABUCK DR	JOHN P & MICHELLE L HOOD
20-05-30	35-095-026	389	TIMBER LN	CHRISTOPHER T & JOY MEHR
20-05-31	35-116-021	5881	TYLER DR	DAVID I & ELICIA L STEIN

address1	city	state	zip_code
5719 CLOVERDALE RD	HARRISBURG	PA	17112
5727 CLOVERDALE RD	HARRISBURG	PA	17112
5729 CLOVERDALE RD	HARRISBURG	PA	17112
5734 CLOVERDALE RD	HARRISBURG	PA	17112-3109
5486 KENWOOD AVE	HARRISBURG	PA	17112
5494 KENWOOD AVE	HARRISBURG	PA	17112-3082
5496 KENWOOD AVE	HARRISBURG	PA	17112
5734 KENWOOD AVE	HARRISBURG	PA	17112
5739 KENWOOD AVE	HARRISBURG	PA	17112
5741 KENWOOD AVE	HARRISBURG	PA	17112
5742 KENWOOD AVE	HARRISBURG	PA	17112-3129
5721 MEADOWBROOK DR	HARRISBURG	PA	17112
5723 MEADOWBROOK DR	HARRISBURG	PA	17112
5726 MEADOWBROOK DR	HARRISBURG	PA	17112
5734 MEADOWBROOK DR	HARRISBURG	PA	17112-3137
5742 MEADOWBROOK DR	HARRISBURG	PA	17112
5744 MEADOWBROOK DR	HARRISBURG	PA	17112-3137
5800 MEADOWBROOK DR	HARRISBURG	PA	17112-3154
716 ELKHORN RD	RUSKIN	FL	33573
5575 MERIVALE CT	HARRISBURG	PA	17112
5707 OAK AVE	HARRISBURG	PA	17112-3142
5708 OAK AV	HARRISBURG	PA	17112-3143
5709 OAK AVE	HARRISBURG	PA	17112
5713 OAK AV	HARRISBURG	PA	17112-3142
5921 PALMER RD	HARRISBURG	PA	17112-3159
5926 PALMER DR	HARRISBURG	PA	17112
5928 PALMER DR	HARRISBURG	PA	17112
384 RABUCK DR	HARRISBURG	PA	17112-3153
392 RABUCK DR	HARRISBURG	PA	17112
389 TIMBER LN	HARRISBURG	PA	17112
5881 TYLER DR	HARRISBURG	PA	17112

LOWER PAXTON TOWNSHIP AUTHORITY
Dauphin County, Pennsylvania
RESOLUTION 2020-06-01

WHEREAS, Lower Paxton Township Authority (the “Authority”) is a municipality authority, existing under the Municipality Authorities Act, as amended; and

WHEREAS, the Authority is undertaking sanitary sewer and storm water management improvement projects to replace portions of the sanitary sewer and storm water management system; and

WHEREAS, it is necessary to acquire a permanent sanitary sewer, storm water easement, temporary construction easement and any existing storm water infrastructure with the easement for purposes of the replacement and relocation of storm water drainage facilities and improvements on the property now or formerly owned by William Chianos and Judith A. Chianos, Tax Parcel ID 35-043-12; and

WHEREAS, in order to perform necessary sanitary sewer and storm water management improvements, it has been deemed to be in the public interest for the Authority to acquire, by purchase or eminent domain proceedings, the permanent sanitary and storm water management easements, temporary construction easement and any existing storm water infrastructure within the easement as needed in such lands as the Authority deems necessary for continued effective sanitary sewer and storm water management; and

WHEREAS, the Authority Board, upon the recommendation of Authority Manager and the advice of its engineer and other advisors, has selected a permanent sanitary sewer, storm water easement, temporary construction easement and any existing storm water infrastructure to be acquired, all as more fully described on Exhibit “A” hereto, as attached and to be acquired for the purposes of replacement and relocation of sanitary sewer and storm water drainage facilities and improvements.

NOW THEREFORE, the Authority hereby adopts the following resolution:

1. The Chairman, Secretary and other such officers as they may designate, through the Authority Solicitor and with the assistance of such other advisors as the Authority Manager deems appropriate, including but not limited to the Authority Engineers, shall contact the owner thereof and negotiate the acquisition of the permanent sanitary sewer, storm water easement, temporary construction easement and any existing storm water infrastructure with the easement described in Exhibit “A” on terms and conditions deemed advantageous to the Authority in light of the public objectives of the Authority and the necessity to acquire the permanent sanitary sewer, storm water easement, temporary construction easement and any existing storm water infrastructure with the easement as soon as possible, and to settle on the acquisition of, make proper compensation and full payment for and secure the

permanent storm water easement and any existing storm water infrastructure with the easement in order to complete the storm water management project.

2. The proper officers of the Authority, including, but not limited to the Authority Manager, Authority Solicitor and Authority Engineers are hereby authorized and directed to do all things necessary and desirable to implement the above action by the Authority, including the fixing of the fair market value for the permanent sanitary sewer, storm water easement, temporary construction easement and any existing storm water infrastructure with the easement, making an offer to acquire the easement and any existing storm water infrastructure with the easement by agreement and to order the preparation and execution of any and all such documentation necessary to accomplish this acquisition.
3. In the event that the Authority cannot expeditiously agree on terms of the acquisition of the permanent storm water easement and any existing storm water infrastructure with the easement with the owner of the property in question, then the Chairman and Secretary, with the assistance of the Authority Manager, Authority Solicitor and the Authority Engineers and other assistance as is deemed appropriate by the officers of the Authority, are hereby authorized and directed to take the permanent storm water easement and any existing storm water infrastructure with the easement by exercise of the eminent domain power of the Authority for storm water management purposes under the Municipality Authorities Act, as amended and supplemented from time to time and under the Eminent Domain Code, as amended and supplemented from time to time.
4. Proper officers of the Authority are authorized and directed to execute, file and deliver such documents and to do such other things as may be necessary to carry out the intent and purpose of this Resolution, including, but not limited to a Declaration of Taking.
5. This Resolution shall become effective immediately.
6. In the event any provision, section, sentence, clause or part of this Resolution shall be held invalid, such invalidity shall not affect or impair the remaining provisions, sections, sentences, clauses or parts of this Resolution, it being the intent of the Authority that such remainder shall be and shall remain in full force and effect.

DULY ADOPTED as Resolution 2020- 06-01 this _____ day of _____, 2020 by the Board of the Lower Paxton Township Authority.

ATTEST:

LOWER PAXTON TOWNSHIP AUTHORITY

Secretary

By: _____
Chairman

CERTIFICATE

I, the undersigned, Secretary of the Lower Paxton Township Authority (the "Authority"), certify that the foregoing Resolution was adopted by a majority of the entire Board of Supervisors at a meeting duly convened according to law and held on _____, 2020, at which meeting a quorum was present; said Resolution was adopted by an aye or nay vote; said Resolution and the vote thereon showing how each Board Member voted have been recorded in the minutes of said Board; and said Resolution remains in effect, unaltered and unamended as of the date of this Certificate.

IN WITNESS WHEREOF, I set my hand and official seal of the Authority, this ____ day of _____, 2020.

Secretary

(SEAL)

Resolution #	Parcel #	Name	House Number	Street
20-06-01	35-043-012	William Chianos Judith A Chianos	500	Beaver Road
20-06-02	35-043-019	Merle P Polhemus, III	5692	Devonshire Heights Road
20-06-03	35-043-058	Larry E Thompson Sr Letha B Thompson	5698	Devonshire Heights Road
20-06-04	35-043-106	Faye A Clark	460	Beaver Road
20-06-05	35-043-164	PRGL Paxton Limited TKG Paxton Towne Centre L.P.	5125	Jonestown Road
20-06-06	35-045-158	Kevin R Shuttleworth Doreen K Shuttlesworth	308	Gannett Street
20-06-07	35-045-159	Donald Yordy Jr	5500	Kenwood Avenue
20-06-08	35-045-165	Thomas J Toolan Randi N Toolan	306	Glenwood Road
20-06-09	35-045-166	Roy Harry McClain Marcia A Thorne	308	Glenwood Avenue
20-06-10	35-045-167	Steven L Foltz	310	Glenwood Road
20-06-11	35-045-173	Cheryll C Prendergast	5512	Kenwood Avenue
20-06-12	35-045-176	Edward J Martin	308	Beaver Road
20-06-13	35-045-177	William F Holmes Marjorie L Holmes	318	Beaver Road
20-06-14	35-045-179	Terry M Good William S Good	326	Beaver Road
20-06-15	35-045-180	Lantern Lane Properties LLC	328	Beaver Road
20-06-16	35-045-188	Jeffrey L High	324	Beaver Road

20-06-17	35-045-199	Loraine C Mariner	5513	Kenwood Avenue
20-06-18	35-045-220	Kelby M Hunt	304	Glenwood Avenue
20-06-19	35-045-227	Diane L Silks Jeffries James M Jeffries	5521	Oak Avenue
20-06-20	35-045-231	Richard O Wilson	5505	Kenwood Avenue
20-06-21	35-045-236	Nicole Rust Smith	312	Beaver Road
20-06-22	35-045-245	Jethro Townes Brenda M Townes	314	Beaver Road
20-06-23	35-046-031	Daniel A Bair, Sr Diane K Bair	5610	Radnor Drive
20-06-24	35-061-007	Martin L Schoffstall	5790	Devonshire Road
20-06-25	35-061-008	Terry E Craig Larri Ann Craig	5885	Devonshire Road
20-06-26	35-061-009	Marianne R McKenna	1140	Green Hill Lane
20-06-27	35-061-010	Jeffrey A Wolford Lynn M Wolford	5895	Clover Road
20-06-28	35-061-019	William Pierce Peggy Jane Pierce	1201	Saradana Road
20-06-29	35-061-020	William S Pierce Peggy Jane Pierce	1201	Saradana Road
20-06-30	35-061-032	George Parmer Parmer Family Foundation Inc.	Locust LN L9	Locust LN L9
20-06-31	35-061-064	Wilbert White Marcielean White	1100	Green Hill Lane
20-06-32	35-061-085	James P Reinke Susan C Reinke	1174	Green Hill Lane
20-06-33	35-061-087	James P Reinke Susan C Reinke	1174	Rear Green Hill Lane

20-06-34	35-066-092	Springford Limited Partnership	6130	Springford Drive
20-06-35	35-066-246	Springford Terrace Three	n/a	Terrace Way
20-06-36	35-093-016	Scott R Kershner Carol L Kershner	1204	Springfield Street
20-06-37	35-093-019	Ronald L Scheaffer Jr Gina M Scheaffer	1107	Saradana Road
20-06-38	35-096-075	Matthew E Dudek Nicole Dudek	5705	Kenwood Avenue
20-06-39	35-096-076	Diane Olivia Stables	5703	Kenwood Avenue
20-06-40	35-096-078	Donald A Seay Judy A Seay	403	Beaver Road
20-06-41	35-116-022	Devonshire Heights Homeowners Association	L29	Milton Road detention pond

City	State	Zip	Alley or Property	Mailing Address	City	State	Zip
Harrisburg	PA	17112	Property	500 Beaver Road	Harrisburg	PA	17112
Harrisburg	PA	17112	Property	5692 Devonshire Road	Harrisburg	PA	17112
Harrisburg	PA	17112	Property	5698 Devonshire Heights Road	Harrisburg	PA	17112
Harrisburg	PA	17112	Property	460 Beaver Road	Harrisburg	PA	17112
Harrisburg	PA	17112	Property	Bellevue 3rd Floor, 200 S Broad Street	Philadelphia	PA	19102
Harrisburg	PA	17112	Alley	308 Gannett Street	Harrisburg	PA	17112
Harrisburg	PA	17112	Alley	5500 Kenwood Avenue	Harrisburg	PA	17112
Harrisburg	PA	17112	Alley	306 Glenwood Road	Harrisburg	PA	17112
Harrisburg	PA	17112	Alley	308 Glenwood Avenue	Harrisburg	PA	17112
Harrisburg	PA	17112	Alley	310 Glenwood Road	Harrisburg	PA	17112
Harrisburg	PA	17112	Alley	5512 Kenwood Avenue	Harrisburg	PA	17112
Harrisburg	PA	17112	Alley	335 Highland Avenue	Elizabethtown	PA	17022
Harrisburg	PA	17112	Alley	5742 Kenwood Avenue	Harrisburg	PA	17112
Harrisburg	PA	17112	Alley	142 Kingswood Drive	Harrisburg	PA	17112
Harrisburg	PA	17112	Alley	328 Beaver Road	Harrisburg	PA	17112
Harrisburg	PA	17112	Alley	324 Beaver Road	Harrisburg	PA	17112

Harrisburg	PA	17112	Property	5513 Kenwood Avenue	Harrisbur g	PA	17112
Harrisburg	PA	17112	Alley	304 Glenwood Avenue	Harrisbur g	PA	17112
Harrisburg	PA	17112	Alley	5521 Oak Avenue	Harrisbur g	PA	17112
Harrisburg	PA	17112	Property	5505 Kenwood Avenue	Harrisbur g	PA	17112
Harrisburg	PA	17112	Alley	312 Beaver Road	Harrisbur g	PA	17112
Harrisburg	PA	17112	Alley	2591 Allessand ro Boulevard	Harrisbur g	PA	17112
Harrisburg	PA	17112	Property	5610 Radnor Drive	Harrisbur g	PA	17112
Harrisburg	PA	17112	Property	5790 Devonshir e Road	Harrisbur g	PA	17112
Harrisburg	PA	17112	Property	5885 Devonshir e Road	Harrisbur g	PA	17112
Harrisburg	PA	17112	Property	1140 Green Hill Lane	Harrisbur g	PA	17112
Harrisburg	PA	17112	Property	5895 Clover Road	Harrisbur g	PA	17112
Harrisburg	PA	17112	Property	1201 Saradana Road	Harrisbur g	PA	17112
Harrisburg	PA	17112	Property	1201 Saradana Road	Harrisbur g	PA	17112
Harrisburg	PA	17111	Property	911 Grove Road	Harrisbur g	PA	17111
Harrisburg	PA	17112	Property	1100 Green Hill Lane	Harrisbur g	PA	17112
Harrisburg	PA	17112	Property	1174 Green Hill Lane	Harrisbur g	PA	17112
Harrisburg	PA	17112	Property	1174 Green Hill Lane	Harrisbur g	PA	17112

Bala Cynwyd	PA	19004	Property	225 N Presidenti al Blvd	Bala Cynwyd	PA	19004
Bala Cynwyd	PA	19004	Property	Limited Partnershi p, 225 N Presidenti al Ave	Bala Cynwyd	PA	19004
Harrisburg	PA	17112	Property	1204 Springfiel d Street	Harrisbur g	PA	17112
Harrisburg	PA	17112	Property	1107 Saradana Road	Harrisbur g	PA	17112
Harrisburg	PA	17112	Property	5705 Kenwood Avenue	Harrisbur g	PA	17112
Harrisburg	PA	17112	Property	5703 Kenwood Avenue	Harrisbur g	PA	17112
Harrisburg	PA	17112	Property	403 Beaver Road	Harrisbur g	PA	17112
Harrisburg	PA	17112	Property	7300 Derry Street	Harrisbur g	PA	17111

LOWER PAXTON TOWNSHIP AUTHORITY
Dauphin County, Pennsylvania

Resolution 20-07

DISPOSITION RESOLUTION FOR DESTRUCTION OF SPECIFIC RECORDS

WHEREAS, The Board of the Lower Paxton Township Authority (the “Authority”), Dauphin County, Pennsylvania, desires to dispose of records according to statutory requirements, and

WHEREAS, by virtue of Resolution No. 09-07, adopted August 25, 2009, Lower Paxton Township Authority declared its intent to follow the schedules and procedures for the disposition of records as set forth in the Municipal Records Manual, as amended, and

WHEREAS, IN ACCORDANCE WITH Act 428 of 1968, each individual act of disposition shall be approved by Resolution of the governing body of the Authority.

NOW, THEREFORE, BE IT RESOLVED, that the Board of the Lower Paxton Township Authority, Dauphin County, Pennsylvania, in accordance with the above cited Municipal Records Manual, hereby authorizes the disposition of the public record listed in Appendix A.

RESOLVED, this 26th day of May 2020.

ATTEST:

LOWER PAXTON TOWNSHIP
AUTHORITY

Chris Judd, Secretary

David B. Blain, Chairman

(Seal)

RESOLUTION 2020-07

Appendix – A

DEPARTMENT	RECORD TITLE	YEAR	TOTAL CUBIC FEET	NUMBER OF BOXES	RETENTION PERIOD	PAGE/SECTION
Sewer	Billing Journals	2008	2.25	1	7	FN-1
Sewer	Billing Journals	2010	5	5	7	FN-1
Sewer	Billing Stubs	2010	2.25	1	7	FN-1
Sewer	Billing Journals and Registers	2011	6	6	7	FN-1
Sewer	Billing Stubs	2011	6.75	3	7	FN-1
Sewer	Billing Stubs & Journals	2012	9.25	8	7	FN-1

LOWER PAXTON TOWNSHIP AUTHORITY

RESOLUTION 20-08

**A RESOLUTION OF LOWER PAXTON TOWNSHIP AUTHORITY
AUTHORIZING THE TEMPORARY WAIVER OF THE 10% PENALTY ON
UNPAID SANITARY SEWER AND STORMWATER CHARGES AND
ESTABLISHING A TERMINATION MORATORIUM FOR WATER SHUTOFFS
OF UNPAID SANITARY SEWER CHARGES CONSISTENT WITH THE PUC
EMERGENCY ORDER OF MARCH 13, 2020**

WHEREAS, the Lower Paxton Township Authority (the “Authority”) is a municipality authority, existing under the Municipality Authorities Act, as amended; and

WHEREAS, the Authority has entered into a Management Agreement with Lower Paxton Township (hereinafter the Township) to provide certain services in connection with the operation and maintenance of the sanitary sewer and stormwater system, including the billing and collection for Sanitary Sewer service and for Stormwater service in accordance with the Sanitary Sewer rates and the Stormwater rates and other charges, as established and imposed by the Authority; and

WHEREAS, the Authority has established by Resolution 19-01 and 97-06 that Stormwater Management User Fees and Sanitary Sewer rental charges shall be rendered in arrears of the service provided for quarterly service periods of January 1, April 1, July 1, and October 1 of each year. Stormwater Management User Fees and Sanitary Sewer Charges shall be due and payable upon presentation and if not paid on or before the due date, a penalty of ten percent (10%) of the current billed amount shall be added; and

WHEREAS, the Governor’s Office of the Commonwealth of Pennsylvania issued a Proclamation of Disaster Emergency on March 6th, 2020, due to the spread of COVID-19 under the authority of 35 Pa.C.S. § 7501, *et seq.* that authorized the suspension of certain procedures and formalities prescribed by law and urged counties to “act as necessary to meet the current exigencies; and

WHEREAS, the Township Manager issued a Declaration of Disaster Emergency on March 18, 2020, with the Board of Supervisors of the Township ratifying such Declaration on March 24, 2020, recognizing the existence of a disaster emergency in the Township due to COVID-19; and

WHEREAS, the Governor mandated the closure of physical non-life-sustaining businesses, effective March 21st, 2020, and has urged “social distancing” measures to prevent the spread of COVID-19; and

WHEREAS, the Authority recognizes that the finances of many sanitary sewer and stormwater fee rate payers will be negatively affected by the closure of local businesses, layoffs of employees, and uncertainty in the financial markets; and

WHEREAS, the Authority desires to mitigate the economic impact of COVID-19 on Authority rate payers by using its discretion to waive penalties for late sanitary sewer and stormwater charges, providing for the temporary waiver of the 10% penalty on unpaid sanitary sewer and stormwater charges for the quarterly service periods of April 1, 2020, with a payment due date of April 30, 2020 and the July 1, 2020 billing, with a payment due date of July 31, 2020; and

WHEREAS, the Pennsylvania Public Utility Commission (PUC) issued an Emergency Order on March 13, 2020 establishing a termination moratorium prohibiting the termination of water service to wastewater customers with delinquent sanitary sewer charges; and

WHEREAS, the Authority desires to ratify the Emergency Order of the PUC prohibiting the termination of water service to customers with delinquent sanitary sewer charges.

NOW, THEREOFRE, BE IT RESOLVED AND IT IS HEREBY RESOLVED by the Township Board of the Lower Paxton Township Authority as follows:

SECTION 1. The foregoing Recitals to this Resolution are incorporated herein and made a part hereof.

SECTION 2. The Lower Paxton Township Authority authorizes the Township to temporarily waive the 10% penalty on unpaid sanitary sewer and stormwater charges for the quarterly service periods of April 1, 2020, with a payment due date of April 30, 2020, and the July 1, 2020 billing, with a payment due date of July 31, 2020.

SECTION 3. The Lower Paxton Township Authority hereby authorizes the Township to establish a termination moratorium prohibiting the termination of water service to wastewater customers with delinquent sanitary sewer charges.

SECTION 4. This Resolution shall be effective immediately.

DULY ADOPTED as Resolution **20-08 this 26th day of May 2020** by the Board of the Lower Paxton Township Authority.

ATTEST:

LOWER PAXTON TOWNSHIP AUTHORITY

Secretary

By: _____
Chairman

(SEAL)

**PENNSYLVANIA
PUBLIC UTILITY COMMISSION
Harrisburg, PA 17105-3265**

**Re: Public Utility Service Termination Moratorium
Proclamation of Disaster Emergency – COVID-19**

**EMERGENCY ORDER
DOCKET No: M-2020-3019244**

On March 6, 2020, pursuant to subsection 7301(c) of the Emergency Management Services Code, 35 Pa. C.S. §§ 7101, *et seq.*, Governor Tom Wolf issued a Proclamation of Disaster Emergency proclaiming the existence of a disaster emergency throughout the Commonwealth for a period of up to ninety (90) days, unless renewed by the Governor. Shortly thereafter, on March 11, 2020, the World Health Organization declared COVID-19 – the coronavirus – a pandemic.

The Proclamation of Disaster Emergency authorizes and directs the suspension of “the provisions of any regulatory statute prescribing the procedures for conduct of Commonwealth business, or the orders, rules or regulations of any Commonwealth agency, if strict compliance with the provisions . . . would in any way prevent, hinder, or delay necessary action in coping with this emergency.”

In addition, Section 1501 of the Public Utility Code, 66 Pa. C.S. § 1501, provides that every public utility has a duty to furnish and maintain adequate, efficient, safe, and reasonable service as is necessary for the accommodation, convenience, and safety of its patrons, employees, and the public. Section 1501 explicitly requires such service to be “reasonably continuous and without unreasonable interruptions.” 66 Pa. C.S. § 1501.

Under the unique circumstances presented by the COVID-19 pandemic, establishing a termination moratorium for utility services –including electric, natural gas, water, wastewater, telecommunications, and steam – is consistent with the Governor’s Proclamation of Disaster Emergency and the requirements of Section 1501.

Pursuant to the Commission’s regulations governing emergency relief, an Emergency Order will be issued only when there exists a clear and present danger to life or property or when the relief requested is uncontested and action is required prior to the next scheduled public meeting. 52 Pa. Code §3.1.

Additionally, Commission regulations at 52 Pa. Code §3.2 provide that, in addition to the existence of an emergency, an emergency order is appropriate where the need for relief is immediate, there would be irreparable injury if relief is not granted, and the relief is not injurious to the public interest.

I believe that issuance of an emergency order is appropriate under the unique circumstances. It is beyond argument that the provision of public utility service is necessary for the safety of the public. This is especially the case under the current challenges that resulted in the Proclamation of a pandemic emergency. Irreparable injury to the public is likely to occur with disruption of service, creating a clear and present danger to life.

Therefore, all electric, natural gas, water, wastewater, telecommunications, and steam utilities subject to the Commission's jurisdiction are prohibited from terminating service during the pendency of the Proclamation of Disaster Emergency, unless to ameliorate a safety emergency, or unless otherwise determined by the Commission.

Finally, we encourage utilities to restore service to customers whose service has been terminated, to the extent they can do so safely.

THEREFORE, IT IS ORDERED:

That all electric, natural gas, water, wastewater, telecommunications, and steam utilities subject to the Commission's jurisdiction are prohibited from terminating service during the pendency of the Proclamation of Disaster Emergency consistent with this Emergency Order.

Date: March 13, 2020


Gladys Brown Dutrieuille, Chairman

AMENDMENT TO SEWER MAINTENANCE AGREEMENT

THIS AMENDMENT TO SEWER MAINTENANCE AGREEMENT, made the _____ day of _____, in the year two thousand twenty (2020), by and between Lower Paxton Township Authority, a Pennsylvania Municipality Authority, County, Pennsylvania (the "Authority") and Triple Crown Corporation (the "Developer") (collectively the "Parties) as follows:

BACKGROUND

- A. On November 27, 2018 Authority and Developer entered into a Sewer Maintenance Agreement (the "Agreement"), with regard to the dedication of certain sewer facilities in the Stray Winds Farm development (the "Facilities") by Developer to Authority and the posting by Developer of security to secure the structural integrity of the Facilities, which are specifically identified in exhibits to the Agreement.
- B. The Agreement provides that Developer is required to post a Financial Security in the form of a letter of credit in the amount of Fifty Thousand and 00/100 Dollars (\$50,000) for a period of fifteen (15) years from the date of the Agreement to secure the structural integrity and functioning of the Facilities.
- C. Developer has informed Authority that M&T Bank (the "Issuer") will not issue a letter of credit for a period of fifteen (15) years.
- D. In lieu of a fifteen (15) year letter of credit, the Authority is willing to accept a one (1) year letter of credit in the amount of Fifty Thousand and 00/100 Dollars (\$50,000), which will automatically renew every year for a period of fifteen (15)

years and the Developer is willing to provide such a letter of credit.

Accordingly, in consideration of the above recitals and the mutual covenants herein and intending to be legally bound hereby, the Parties agree to amend paragraph 1 of the Agreement to read as follows:

1. The Developer shall post Financial Security in the form of a one year letter of credit in the amount of Fifty Thousand and 00/100 Dollars, which shall automatically renew every year for a period of fifteen (15) years from the date of the Agreement to secure the structural integrity and functioning of the Facilities identified in the exhibits attached to the Agreement.
2. All other terms and conditions of the Agreement shall remain in full force and effect.
3. This Amendment may be executed in one or more counterparts, each of which is an original, and all of which constitute only one agreement between the Parties.

ATTEST:

**LOWER PAXTON TOWNSHIP
AUTHORITY**

Secretary

By: _____
William R. Weaver,
Sewer Department Director

ATTEST:

TRIPLE CROWN CORPORATION

Jessica Hodnett
Name: Jessica Hodnett

By: Mark X. DiSanto
Mark X. DiSanto,
Chief Executive Officer



Memorandum

May 22, 2020

To: William Weaver Ref. No.: 8616025

From: Melissa Smith Tel: 717-541-0622

cc: File

Subject: Developer Installed Sewers to be Dedicated to the Authority

The following developer installed sanitary sewers are currently offered to the Authority for dedication:

- Shadebrook Phase 1, 2 and 3. The signed paperwork will be emailed to the Board on Tuesday when it is received. The documents were approved by GHD.

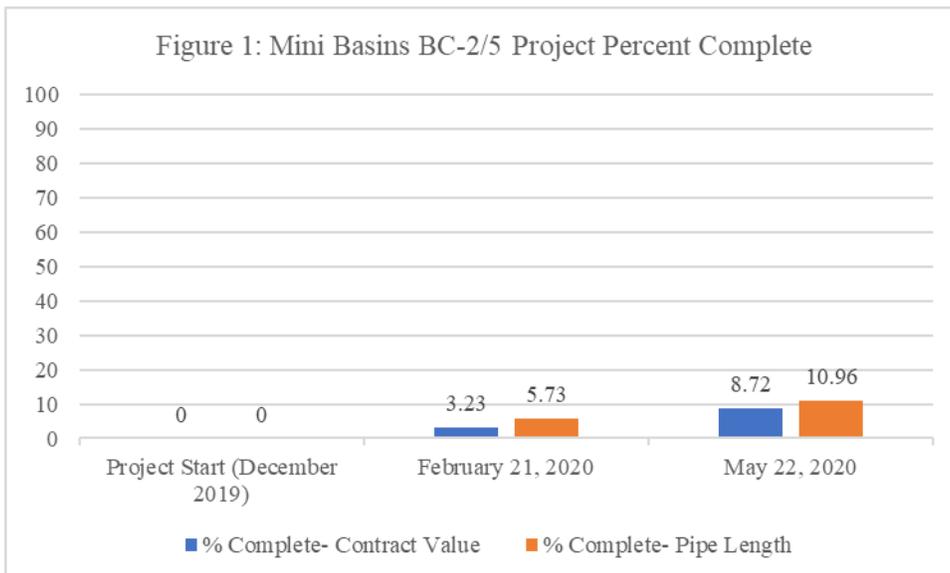
The following is offered for discussion:

- Blue Ridge Village Phase 1: The developer would like to dedicate the Phase 1 sanitary sewers as soon as they are able. The dedication paperwork has been reviewed and approved by GHD and a signed copy will be delivered to GHD on May 26, 2020. The 18-month maintenance bond paperwork for all of the Phase 1 sewers, excluding the sewer main that crosses Linglestown Road, was approved by the solicitor. The maintenance bond will be dated by the bonding company and provided to the Authority, once the sewers are approved for dedication. The sanitary sewer main that crosses Linglestown Road requires a separate maintenance bond that is good for 5 years, as was agreed upon at the August 27, 2019 Authority Board meeting, since the line did not pass the lamp test but passed the mandrel and air tests. This separate maintenance bond was outstanding as of May 22, 2020. There are also a few remaining minor punch list items that should be completed by the end of May.

The Developer has requested conditional approval from the Board for the sanitary sewers to be approved for dedication after the punch list items have been completed and the signed dedication and maintenance bonds are in hand. If the Board does not agree to a conditional approval, the dedication will be done at the next Authority Board meeting.

1. Mini Basins BC-2A,2B,2C and 5B Sewer System Improvements Project

- **Project Location:** Eastern Linglestown Area- [See map](#)
- **Contract Work:** *Sanitary*- 7.5 miles of mainline sewer, 190 manholes, 530 laterals. *Storm*- 2.0 miles of storm sewer, 125 drainage structures.
- **Contractor:** DOLI Construction Corporation
- **Contract Value:** \$16,933,333.25
- **Amount Paid to Date:** \$1,477,137.46
- **Substantial Completion Date:** August 31, 2021
- **Final Completion Date:** October 31, 2021
- **Approximate Percent Complete:** See Figure 1 below.
- **Project Status:** [See map](#)- Sanitary sewers shown in green (Nassau, Harrise, Florence, and Griffin) and red (Nassau and Amy) have been replaced. Storm sewer replacement remains in the red area. Purple area is the next area slated for work.
- **Challenges:**
 - DOLI shut down in compliance with Governor Wolf’s Order on March 20. They resumed work the week of April 6. A no cost time extension of 18 days has been requested by DOLI and will be approved.
 - UGI failed to relocate their existing gas main on Nassau Road that conflicted with our new storm sewer. Nassau Road cannot be paved until storm sewer is replaced. Storm sewer cannot be replaced until gas main is relocated. UGI was first notified about the relocation in December 2019.

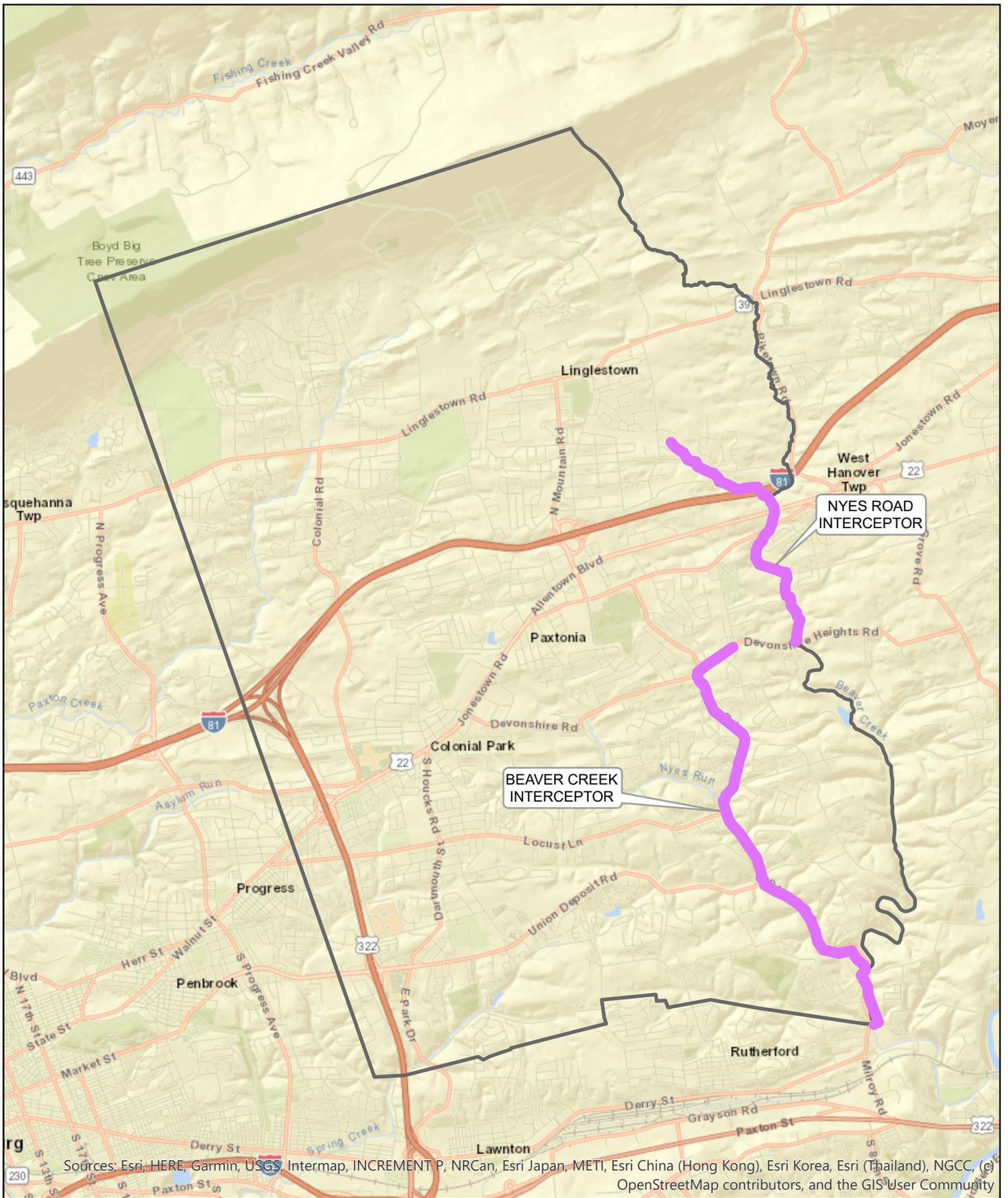


2. **Mini Basin SC-2B Building Sewer Replacement**

- **Project Location:** Twin Lakes/Union Deposit Area- [See map](#)
- **Contract Work:** Replacement of 124 private building sewers in preparation for our 2020/2021 Lining Project.
- **Contractor:** Lower Paxton Township I/I Crew
- **Project Status:** Approximately four properties remain. Our crew will finish this area in the next two weeks and mobilize to BC-7 PVC areas (Meadowbrook).

3. **Beaver Creek and Nyes Road Interceptor**

- **Project Location:** Beaver Creek Interceptor and Nyes Road Interceptor- *See attached location map.*
- **Summary of Work:** Locate and clear walking access to 145 sanitary sewer manholes, open and inspect each manhole, collect GPS location and photographs documenting current condition of each manhole, and develop a phased plan to replace frames and covers and perform rehabilitation where necessary.
- **Project Status:** Our metering technician hypothesized that creek water was entering the system due to location of manholes or condition of watertight frames and covers. When sewer construction projects shut down on March 20, we had four inspectors with very limited workload. We assigned them to assist in the inspection of our main interceptors conveying wastewater to the Swatara Township WWTP, the Beaver Creek Interceptor and the Nyes Road Interceptor. These interceptor sewers run north to south along Beaver Creek and Nyes Run, and are comprised of more than 6 miles of pipe ranging from 10-inch diameter to 27-inch diameter.
- **Next Step:** Our maintenance department will replace frames and covers that have exceeded their useful life with new watertight covers.



Paper Size: 8.5" x 11"
 0 0.5 1
 Miles



**NYES ROAD & BEAVER CREEK
 INTERCEPTOR PROJECTS**
 LOWER PAXTON TOWNSHIP AUTHORITY
 LOWER PAXTON TOWNSHIP, DAUPHIN COUNTY, PA

Job Number 11208168
 Revision A
 Date May 21, 2020

1240 North Mountain Road Harrisburg, PA 17112 T 717 541 0622 F 717 541 8004 W www.ghd.com

C:\Users\lapan\Desktop\Work\LPTA_AGOL\GPS_Template\GPS_Template.aprx
 © 2020. While every care has been taken to prepare this map, GHD (and DATA CUSTODIAN) make no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and cannot accept liability and responsibility of any kind (whether in contract, tort or otherwise) for any expenses, losses, damages and/or costs (including indirect or consequential damage) which are or may be incurred by any party as a result of the map being inaccurate, incomplete or unsuitable in any way and for any reason.

LPTA TASK LIST

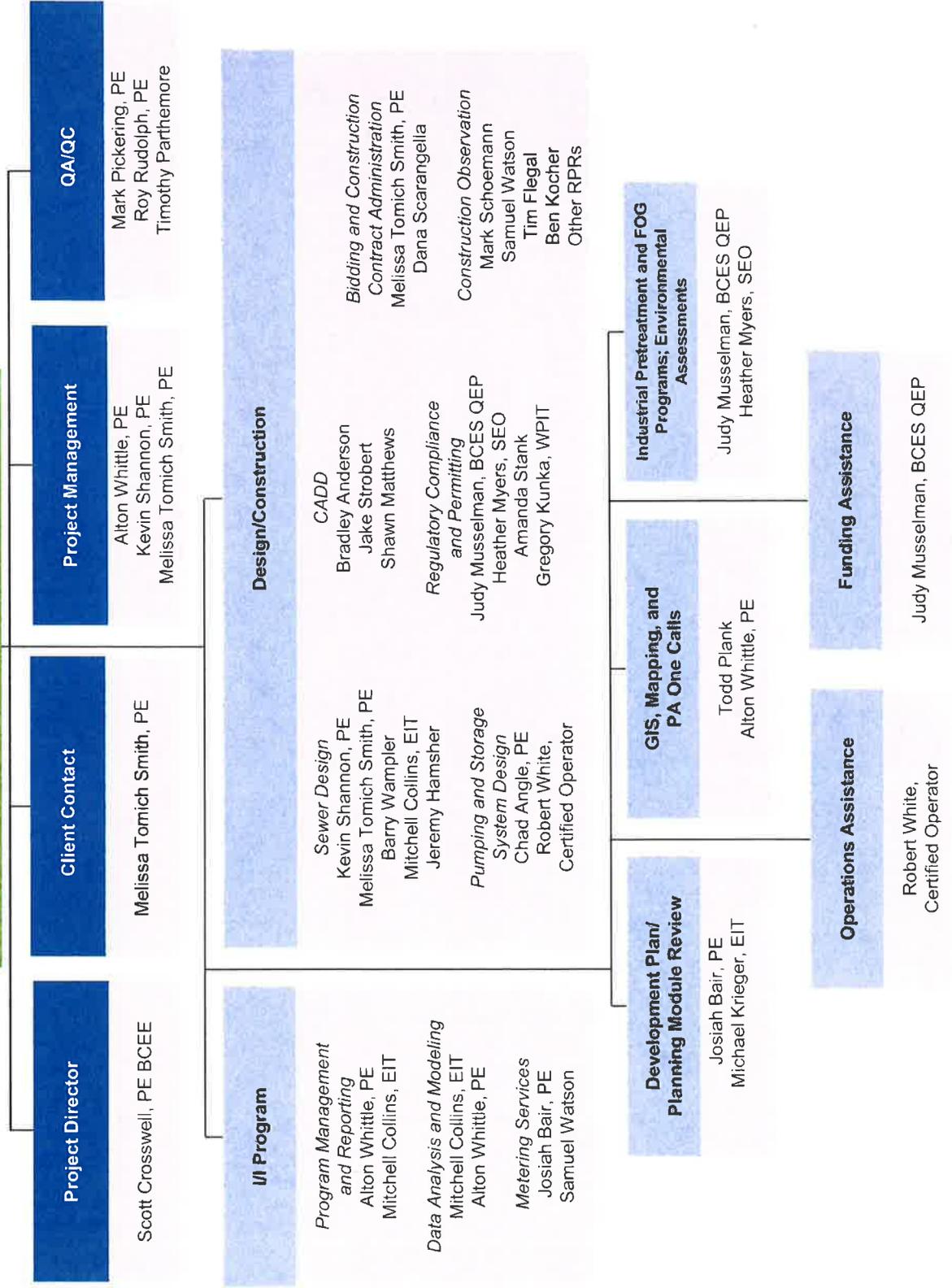
04/16/2020

Description	Task Name	Priority	Assigned To	Due Date
11207954	Rate Projections	Important	Alton Whittle	04/20/2020
11208997 - LPTA Mini-Basin Program	LPTA Meter Meeting Powerpoint	Urgent	Alton Whittle;Mitch Collins;Josia	04/20/2020
11208997 - LPTA Mini-Basin Program	Monthly Meter Report	Important	Josiah Bair	04/17/2020
11208168 - LPTA Right-of-Way Clearance	BC ROW Clearing Contract/Specifications	Important	Melissa Smith	04/30/2020
11208168 - LPTA Right-of-Way Clearance	Determining Permitting Requirements	Important	Kevin Shannon	04/30/2020
11208037 - LPTA Maintenance & Emergency Contract	Maintenance and Emergency Contract	Medium	Melissa Smith	04/23/2020
11208032 - LPTA Developments	Miscellaneous Development Items	Medium	Josiah Bair	ongoing
11208032 - LPTA Developments	Development Review Meeting with LPTA	Medium	Josiah Bair	04/15/2020
11207954 - LPTA Miscellaneous Engineering Services	Swatara Dryer Memo	Medium	Mark Pickering;Melissa Smith	04/24/2020
11207954 - LPTA Miscellaneous Engineering Services	Standard Specifications	Medium	Melissa Smith	05/15/2020
11207954 - LPTA Miscellaneous Engineering Services	I-83 Reimbursement	Medium	Melissa Smith	04/30/2020
11207954 - LPTA Miscellaneous Engineering Services	SC-1 Trunkline Survey Scope	Medium	Mitch Collins	04/17/2020
11207872 - LPTA 2020 Regular Annual Services	Weekly Check-In	Medium	Melissa Smith	ongoing
11207872 - LPTA 2020 Regular Annual Services	Engineer's Report for 05/26/20 Board Meeting	Medium	Kevin Shannon	05/20/2020
11207139 - LPTA SSO Improvements	BC Meter Pit Raising Specs	Medium	Melissa Smith	05/15/2020
11207139 - LPTA SSO Improvements	BC Meter Pit H/H Report	Medium	Josiah Bair	05/15/2020
11207139 - LPTA SSO Improvements	BC Meter Pit Structure Permitting	Medium	Melissa Smith;Josiah Bair	05/15/2020
11151872 - LPTA Mini-Basins BC-7A/7B/7C/7D/8C/8D	Contract Bidding and Award	Medium	Melissa Smith	06/03/2021
11151872 - LPTA Mini-Basins BC-7A/7B/7C/7D/8C/8D	Final Design	Medium	Kevin Shannon	01/29/2021
11151872 - LPTA Mini-Basins BC-7A/7B/7C/7D/8C/8D	90% Design - Engineering	Medium	Kevin Shannon	12/31/2020
11151872 - LPTA Mini-Basins BC-7A/7B/7C/7D/8C/8D	60% Design - Engineering	Medium	Kevin Shannon	06/30/2020
11151870 - LPTA Mini-Basin SC-2B	Construction Phase - Pre-Con Meeting/Submittals	Medium	Melissa Smith	09/30/2020
11151870 - LPTA Mini-Basin SC-2B	Contract Bidding and Award	Medium	Melissa Smith	07/20/2020
11151870 - LPTA Mini-Basin SC-2B	SC-2 Lining final set of drawings for bidding	Medium	Melissa Smith;Kevin Shannon	04/30/2020
11208997 - LPTA Mini-Basin Program	Paxton Creek Interceptor Surcharge Evaluation	Urgent	Mitch Collins	04/16/2020
11123655 - LPTA Mini-Basins BC-2A/2B/2C/5B	BC-2/5B Pre-Construction Videotaping Review	Medium	Mitch Collins	ongoing
11123655 - LPTA Mini-Basins BC-2A/2B/2C/5B	BC-2/5B Pre-Construction Videotaping	Medium	Chad Luckenbaugh	ongoing
11151872 - LPTA Mini-Basins BC-7A/7B/7C/7D/8C/8D	30% Design - Engineering	Medium	Kevin Shannon	05/01/2020
11151870 - LPTA Mini-Basin SC-2B	SC-2 Lining final set of specification for bidding	Medium	Melissa Smith	04/22/2020
11208997 - LPTA Mini-Basin Program	Setup client meter planning meeting	Medium	Josiah Bair	04/14/2020
11208997 - LPTA Mini-Basin Program	Paxton Creek Status and Removal Efforts	Medium	Mitch Collins	04/10/2020

Team Organization



Lower Paxton Township Authority





**Lower Paxton
Township Authority**

Engineer's Report
March 2020 – May 2020





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1. Annual Progress Report

The Second Consent Decree Annual Progress Report covering the June 1, 2019 through May 31, 2020 reporting period will be prepared this spring for submission to PA DEP by the June 30, 2020 deadline. The following items will be included in the report and detailed further in-depth.

1.1 Metering Program

During this report period, Township Staff continued to maintain the 39 meter sites with the assistance of GHD. The 39 sites include 24 permanent flow meters, four (4) temporary flow meters, three (3) overflow boxes, three (3) metered pump stations, four (4) rain gauges, and one (1) groundwater well. The temporary meters are planned to be removed in early June.

1.2 Wet Weather Events

Four (4) significant wet weather events (WWEs), one (1) extreme WWE, and two (2) flood-level WWEs were experienced during this report period. The following table presents the basic statistics for the WWEs.

Date	Rainfall (in.) ⁽¹⁾	MH 2790 Control Basin Peak (mgd)	Storm Category	Reported Overflows	Weather Summary & Notes
2/27/2020	0.4	0.46	Significant	None	Combined rainfall from 2/26-2/27.
3/23/2020	0.5	0.43	Significant	None	
3/28/2020	1.9	1.25	Flood	None	Combined rainfall from 3/28-3/29.
4/13/2020	1.1	0.69	Extreme	None	Combined rainfall from 4/12-4/13.
4/18/2020	0.4	0.33	Significant	None	Combined rainfall from 4/17-4/18.
4/26/2020	0.6	0.31	Significant	None	
4/30/2020	2.1	1.33	Flood	Four (4)	Combined rainfall from 4/29-4/30.

(1) Rainfall data from Koon's Park Rain Gauge.

1.3 Beaver Creek Metering Chamber

GHD prepared structural and electrical drawings to raise the top of the metering chamber out of the flood plain and to construct a concrete enclosure similar to Swatara's existing metering chambers. Drawings have been reviewed by Lower Paxton's and Swatara's Staff. GHD received the flood plain information from FEMA on May 12, 2020 and can now begin the permitting activities.



2. Strategic Planning/Beaver Creek and Paxton Creek I/I Program Updates

2.1 Beaver Creek Program

No activity by GHD this period.

2.2 Paxton Creek Program

GHD attended a meeting with Lower Paxton and Susquehanna Township management staff to discuss the agreement to increase the safe carrying capacity of the Paxton Creek Interceptor. The agreement is on the agenda for consideration by the Authority.

2.3 Spring Creek Program

To address the overflow potential in the SC-1 Sub-Basin, Township staff shot manhole rim and invert elevations along the East Branch of the SC-1 Interceptor using their GPS unit. GHD updated the hydraulic model with the GPS information along with recent flow metering data to represent real-life conditions. GHD is currently identifying the efforts needed to eliminate the overflow potential in the interceptor. Preliminary analysis indicates that a number of sewer runs on the trunkline between S. Arlington Avenue and Dartmouth Street will need to be upgraded.

3. I/I Projects Summary

3.1 Construction Observation

During this period, GHD provided a Resident Project Representative (RPR) to observe the sanitary sewer replacement/relocation work for PennDOT's Nyes Road Safety Improvements project at the intersection with Devonshire Heights Road. GHD also provided an RPR to assist with observing the BC-2 project starting in March.

3.2 BC-2A/2B/2C/5B Sanitary Sewer Replacement/Rehabilitation

Construction started in BC-2A at the end of January. During this period, GHD reviewed a few contractor submittals, delivered pre-construction videos for BC-2A to Township staff, prepared to perform the pre-construction video work in BC-5B, and provided one full-time RPR to supplement the Township's inspectors since the beginning of March (except for the periods when Doli was unable to work due to the government shut-down and when Doli was working on storm sewers). The contract Substantial Completion and Final Completion dates for this Contract are August 31, 2021 and October 31, 2021, respectively.

3.3 BC-7A/7B/7C/7D/8C/8D

During this period, GHD continued with design and permitting activities and prepared easement plats, coordinating our work with Township, GHD and HRG staff. We also assisted Mr. Weaver in



preparing PowerPoint slides for inclusion in the public meeting presentations put together by Township staff. This project is currently scheduled to be advertised for bids in 2021, with completion of construction by the end of 2023.

3.4 Beaver Creek Basin R/W Clearance and Manhole Rehabilitation

During this period, GHD developed mapping to show which manholes in the Beaver Creek Basin may be subject to I/I due to flooding of Beaver Creek, Nyes Run and their tributaries. Lower Paxton crews began manhole inspections and determining the best means of access to each manhole. Township crews inspected all of the manholes on the Nyes Road Interceptor from the southeast corner of the Township to just south of the intersection of Nyes Road and Devonshire Heights Road. Mr. Nolt summarized the manholes into four (4) phases of work, determined what work should be performed on each manhole, identified potential access points to the manholes, and requested that GHD perform wetlands investigations/delineations associated with accessing the Phase 1 and Phase 2 manholes, and determine the permitting requirements to perform the work.

GHD performed wetlands investigations for the 21 Nyes Road Interceptor manholes in Phase 1 and drafted a report of our findings. Most (if not all) of the Phase 1 work can be performed by a Township crew with no permitting. GHD is currently performing wetlands investigations/delineations for access points to the Nyes Road Interceptor Phase 2 manholes.

Township crews also performed manhole inspections on all Beaver Creek Interceptor manholes and Mr. Nolt is in the process of summarizing the recommended work and breaking the work into phases. Township crews are working on manhole inspections for certain manholes on Trunk G and Trunk H, as recommended by GHD. GHD will perform wetlands investigations/delineations associated with accessing the Phase 1 and Phase 2 manholes on the Beaver Creek Interceptor, Trunk G and Trunk H, after Township staff completes their work.

3.5 PC-4C and PC-4E Sanitary Sewer Replacement/Rehabilitation

GHD recently summarized remaining questions regarding the as-built information provided by the Contractor, Township and surveyor. We anticipate completing final updates to the drawings in the next week or two.

3.6 SC-2B Sanitary Sewer Rehabilitation

No activity by GHD this period. After we receive red-line drawings, we will prepare record drawings to document the work performed by Doli as part of the BC-2 project, as well as work performed by Township crews.

3.7 2020 Lining Project

During this period, GHD prepared draft specifications and will provide them to the Township for review shortly. GHD also assembled a preliminary set of drawings showing the scope of lining work in Mini-basins SC-2B and BC-2B/2C/5B. Mr. Nolt recently provided GHD with information to include on the drawings to more clearly describe the scope of work in SC-2B. The project is currently scheduled to be advertised for bids during the third quarter 2020, with project completion in 2021.



4. **Emergency Repairs to the Wastewater Collection System**

To date, three (3) work orders have been issued to Rogele under the current contract. Rogele agreed to hold their prices until the next contract is awarded.

GHD finalized the bidding documents for the 2020 Emergency and Maintenance Contract. The Contract was posted on PennBid on May 15th. Bids are scheduled to be opened on June 12, 2020.

5. **PennDOT Projects**

5.1 **Nyes Road and Devonshire Heights Intersection Safety Improvements (SR 2019-017)**

GHD provided construction observation periodically during this period. After work shut down in mid-March, construction associated with the sanitary sewer replacement resumed on May 7th. The sanitary sewer work should be completed by the end of June 2020 and the overall project is scheduled to be completed by the end of summer of 2020.

6. **Developer Reviews**

GHD provided services related to several development projects from February 18, 2020 through May 15, 2020, including the following:

6.1 **Development Drawings Review:**

- Amber Fields Phase 7B – GHD reviewed the first submission of drawings and provided a review letter on April 1, 2020.
- Shadebrook Phase IV – GHD reviewed the first and second submissions of drawings and provided review letters on April 28, 2020 and May 11, 2020, respectively.

6.2 **Record Drawings Review:**

- Blue Ridge Village – GHD received record drawings and they are currently being reviewed.

6.3 **Planning Module/Sewer Connection Permit/Tapping Fee Review:**

- Daycare for Forest Hills Commons - GHD reviewed the proposed sewer capacity for a proposed daycare.



6.4 Individual Lateral Review:

- Enders Insurance: GHD provided a letter on April 30, 2020 requesting an easement for the existing sanitary sewer in Blackberry Alley. This project will require a sewer easement over an existing sewer main since a public alley is being abandoned.
- Blue Ridge Village, Lot 1 – Columbia Cottages: GHD provided a 3rd and final review letter for the grease interceptor layout/design on April 16, 2020.
- Blue Ridge Village, Lot 3: GHD provided a 1st review letter for the proposed grease interceptor layout/design on May 6, 2020.
- Gateway, Lot 16 – Fast Food Restaurant: GHD provided a 1st review letter for the proposed grease interceptor layout/design on April 28, 2020.

6.5 Pre-Construction Meetings:

- Stray Wind Farms Phase 6 – Preconstruction meeting was held on February 25, 2020.

6.6 Construction Observation:

- None.

6.7 Punch Lists:

- Blue Ridge Village Phase 1 – a punch list was sent to the Developer on February 26, 2020. Most of the items have been addressed and the Developer's Contractor will be onsite soon to complete the remaining items.

6.8 Sewers Offered for Dedication to the Authority:

- Blue Ridge Village Phase 1: The remaining punch list items should be completed by the end of May. The sewers can be dedicated as soon as the punch list items are completed.
- Shadebrook Phases 1, 2, and 3, dedication paperwork is being completed and signed documents should be ready by May 26, 2020.

7. GIS

7.1 GHDLaunch Web-Mapping

GHD provided guidance and assistance for the implementation of ESRI's ArcGIS Online (AGOL) cloud-based GIS application. AGOL integrates with the existing GHDLaunch GIS system, providing a flexible interface for structuring and viewing data, tools for data collection, and the ability to provide information and updates to sanitary sewer and storm water projects through a web map interface.

GHD also provided guidance and assistance for the review, acquisition, setup, and training for an Eos Arrow Real-Time Kinematic Global Positioning System (RTK GPS) unit. With the tools



available for data capture in AGOL, the RTK GPS allows LPTA staff to record centimeter accuracy level positions directly into the Authority's GIS system.

In the previous Quarter GHD has perform or assisted in these tasks related to the AGOL platform.

- Provided Administration of the AGOL site. Set up user accounts, content structure, share settings, data collaborations with GHD.
- Set up BC-2ABC, 5B public facing Project Status Map.
- Set up SC-2B public facing Project Status Map
- Set up BC-7ABCD, 8CD public facing Project Scope map for sewer and storm.
- Set up Mini-basin Status Map for internal use
- Created electronic Manhole Inspection form through Survey 123 tool in AGOL
- Migrated public facing Stormwater Impervious Surface Review Map from GHD AGOL to LPTA AGOL
- Assistance with Eos Arrow RTK GPS unit and related GIS database setup to record captured GPS data.

7.2 PA1Call Responses

During the period of February 15, 2020 through May 15, 2020, GHD assisted Township Staff with the research and response to 40 PA One Call (PA1Call) design requests. The average response rate is 3 business days of receiving the request, well within the 10-day required response period.

In addition, Todd Plank trained Chad Luckenbach to perform 1Call Responses and set up a Web Mapping Application to provide a cleaner Project Area map showing the location of sanitary sewer and storm water.

7.3 Storm Water

GHD provided assistance to Natalie Hoffman for storm water GIS-related requests. The requests have primarily been parcel reviews as part of the appeals process for the storm water fee.

8. Harrisburg/Capital Region Water (CRW)

No activity this period by GHD.

9. Swatara Annual Meeting

GHD Staff attended the annual meeting with Swatara on February 17, 2020 in accordance with the inter-municipal agreement. Swatara is finalizing a study to replace their current dryer at the wastewater treatment plant. GHD was asked to review the study and provide comments since



LPTA will share in the project costs. GHD Staff is working with Swatara's engineer regarding a few outstanding questions and will submit a summary of our review to Township Staff by the end of May.

10. Project Funding and Sewer Rates

10.1 2016 Bond Issue and Drawdown Schedule

The Township closed on the 2016 Bond Issue in February 2016. The Township reported that \$1,362,741 of the \$25M 2016 bond issue proceeds was remaining after the May 19th check run. During this period, Mr. Weaver initiated discussions with the Authority's bond counsel and financial advisors and GHD prepared rate projections for a number of borrowing scenarios. Bond counsel contacted GHD in early May regarding the need for a self-liquidating debt report from GHD for the 2020 bond issue for sewer projects. We will prepare the report when we receive the final debt service schedule from Mr. Smida.

11. Chapter 94 Reports

11.1 Swatara WWTF

The 2019 Chapter 94 Report was submitted to DEP on February 25th.

GHD prepared the annual memorandum, for Township staff, requesting an allocation of 168 permits for the 2020 agreement year from Swatara Township Authority. The memorandum was submitted to Township staff on March 27th.

11.2 Capital Region WWTF

The 2019 Chapter 94 Report was finalized, reviewed by Township staff, and submitted to CRW on March 16th.

If you have any questions or comments, please contact us.

Sincerely,
GHD

Kevin B. Shannon, PE
Project Manager



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 Harrisburg, PA 17111
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Lower Paxton Township Authority
LPTA Stormwater Fund Budget & Credit Policy
Estimated Project Schedule
1/31/2020

Task	Date	# Days
Credit Policy Outline- Staff/HRG	2/14/2020	--
Revised Credit Policy Outline Final for Board 2/21- Staff/HRG	2/21/2020	--
LPT Staff - Present Draft Credit Policy Outline to Board on 2/25/20	2/25/2020	4
Draft Budget & Draft Credit Policy - HRG to Present to Board 5/26/20	5/26/2020	95
Final Budget & Credit Policy approved by Board for Public meetings	8/25/2020	186
Conduct Public Meetings October 25 & 26	10/25/2020	247
Staff/HRG - Final 2021 Budget & Credit Policy approved by Board	11/24/2020	277
Adopt new Stormwater Fee Resolution for 2021 Stormwater Fee	11/24/2020	277
Staff- Post Credit Policy on Web Page	11/25/2020	278
Accept Credit Policy applications - HRG/Staff to review	11/26/2020	279
Approve Credit Reductions to take effect for 4/1/21 Billing	1/29/2021	343

LOWER PAXTON TOWNSHIP AUTHORITY

PENNSYLVANIA



Stormwater Management Program Credit and Incentive Policy Manual

May 2020

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Introduction

This Manual provides Lower Paxton Township Authority (LPTA) Stormwater Management Program customers with details on the Credits available to reduce their quarterly Stormwater Management User (SMU) Fee. Stormwater Credits are provided as a means for customers to reduce the amount of their quarterly fee by implementing a creditable Best Management Practice activity to reduce the contribution of stormwater and pollutants to LPTA's stormwater management system and/or to aid Lower Paxton Township (LPT) and LPTA in meeting their MS4 Permit obligations.

Stormwater management is important to our community. LPT and LPTA have partnered in the development and implementation of a comprehensive, Stormwater Management Program to provide enhanced stormwater management to property owners in the Township. LPT is the regulatory authority under the Stormwater Management Act and the Pennsylvania Municipal Planning Code, as amended by Act 170 and Act 131. Therefore, LPT shall enforce any stormwater regulated activities, including the installation and proper operation and maintenance of stormwater BMP's associated with this Credit Policy. LPTA owns the stormwater conveyance system and LPTA establishes the stormwater fee rates and credit policy.

The foundation of an effective SMU is the development of a fair and equitable SMU Fee to provide for a dedicated and reliable revenue stream. Revenues generated by the SMU Fees will support the SMU and its goals to: ensure MS4 Permit regulatory compliance, improve water quality, support strategic planning for capital improvements, provide for effective infrastructure operation and maintenance, and to promote the education of the community on practices to improve the quality of water resources.

The *LPTA Stormwater Management User Fee* established a per Equivalent Residential Unit (ERU) rate for all developed parcels, as amended, which was determined based upon the average Impervious Area (IA) of a single family residential properties in the Township. All Non-Single-Family Residential Parcels (NSFRs) shall be billed user fees based upon the following schedule: (a) NSFRs with impervious surface equal to or less than 3,400 square feet shall pay a user fee for one (1) ERU at the current ERU rate established by the current resolution adopted by the Authority. (b) NSFRs above the minimum of 1 ERU shall be computed by multiplying the total number of ERUs, including partial ERUs expressed in fractions of 1/10 to 9/10 as applicable, by the current ERU rate. The complete Resolution, currently, Resolution 19-01, can be viewed on the Township's website at www.lowerpaxton-pa.gov.

Disclaimer

By submitting a Stormwater Management User Fee Credit Application pursuant to the latest version of LPTA Stormwater Management Program Credits and Incentives Policy Manual, Property Owner acknowledges and agrees that he and his heirs, grantees, successors, and assigns shall be solely responsible and liable for the operation and maintenance of any and all Best Management Practices ("BMPs") constructed, installed, or employed by the property owner. Lower Paxton Township and LPTA shall not be responsible for or liable with respect to the operation and maintenance of any BMP, or any damages arising therefrom. Property Owners and his heirs, grantees, successors, and assigns shall identify and hold harmless Lower Paxton Township, LPTA, its officers, agents, and employees from any and all claims, actions, causes of action, judgements, damages, losses, costs,

and expenses (including attorney's fees) arising out of or resulting from the construction, installation, employment, maintenance, or operation of the BMP.

Definitions

The following definitions apply to the Stormwater Management Program Credits and Incentives Policy Manual. Any term not defined by this section can be defined by the *Lower Paxton Township Authority Stormwater Management User Fee Resolution* currently in effect and *Lower Paxton Township Authority's Rules and Regulations*, to the extent not contradictory.

Owner/Applicant – Any person firm, corporation, individual, partnership, trust, company, association, organization, society or group and governmental organizations owning real property with the Service Area. Owner is required to supply all of the necessary materials to LPTA for the application.

Credit – A discount in the form of a percentage that can be applied to an owner's stormwater fee when proper stormwater control techniques are displayed. A maximum of 45% credit can be applied to any one billing period.

Developed Parcel – A land parcel altered from its Natural State that has 340 square feet or more of Impervious Surface.

Equivalent Residential Unit (ERU) – A unit of measure of impervious surface (in square feet) which represents the impervious surface area on the typical Single Family Residential Parcel in the underlying jurisdiction as a unit of comparison. ERU shall mean for the purpose of this Resolution 3,400 square feet of impervious surface. With regard to Non-Single Family Residential Parcels an ERU shall equal 3,400 square feet.

Impervious Area (Impervious Surface) (IA) – A surface that prevents or substantially impedes the percolation of water into the ground. Impervious surfaces include, but are not limited to: any roof, parking or driveway areas, and any new streets and sidewalks. For purposes of stormwater runoff analysis, any surface areas existing or proposed to be gravel or crushed stone shall also be assumed to be impervious surfaces.

Inlet – A surface connection to a closed drain. A structure at the diversion end of a conduit. The upstream end of any structure through which water may flow.

LPT/Township – Lower Paxton Township.

LPTA – Lower Paxton Township Authority.

National Pollutant Discharge Elimination System (NPDES) – The federal government and Commonwealth of Pennsylvania's system for issuance of discharge permits under the federal Clean Water Act (CWA), the Pennsylvania Clean Streams Law and Storm Water Management Act. The Pennsylvania Department of Environmental Protection (PADEP) has been delegated the responsibility to implement the federal CWA NPDES program in Pennsylvania.

Non-Single Family Residential Parcel (NSFR) – Any developed parcel that is not a Single Family Residential Parcel. NSFR shall include, but not limited to, multi-family properties, apartments, boarding houses, hotel, motels, churches, mobile home parks, commercial, institutional, governmental and industrial parcels.

Non-Urbanized Area - Any area which does not meet the definition of Urbanized Area.

Operation and Maintenance Agreement – An agreement, as described in the latest version of the Township’s Stormwater Management Ordinance regarding the required operation and maintenance activities for existing Stormwater Management BMP’s and who will be responsible for performing them. Note: The Operation and Maintenance Agreement is a legal document that will be recorded at the Dauphin County Courthouse by the Township.

Property owner that requests credit(s) for a stormwater management BMP that does not have an existing operation and maintenance agreement with the Authority must: (a) sign the Operation and Maintenance Agreement as shown in the latest version of the Township’s Stormwater Management Ordinance, (b) provide to the Authority all of the material requested by the Authority regarding the stormwater management BMP that the property owner is requesting and (c) the design of the stormwater management BMP that the property owner is requesting must be signed and sealed by a Professional Engineer registered in the State of Pennsylvania.

Outlet – Points of water disposal from a stream, river, lake tidewater or artificial drain.

PADEP – Pennsylvania Department of Environmental Protection.

Pennsylvania Stormwater Best Management (BMP) Practices Manual - The most recent version of the Pennsylvania Stormwater Best Management Practices Manual.

Peak Rate Control Credit – A credit that can be applied for utilizing proper stormwater rate control techniques. Example: Detention tanks/basins with a controlled outlet.

Pervious Area – Surface such as soil or other areas not defined as impervious which allows for the infiltration of water to the ground.

Property Owner (Owner) - Any person, firm, corporation, individual, partnership, trust, company, association, government agency, society or group owning real property in the Township.

Service Area – All land within Lower Paxton Township.

Single Family Residential Parcel (SFR) – Any developed parcel containing only one (1) structure which contains one (1) or more rooms with a bathroom and kitchen facility designed for occupancy by one (1) family unit; including single family homes, attached and detached townhouses, condominiums, duplexes, and mobile homes located on individual lots.

Stormwater – The surface runoff generated by precipitation reaching the ground surface.

Stormwater Management Ordinance – The latest version of Chapter 170 – Stormwater Management, Drainage and Erosion Control from Lower Paxton Township Code of Ordinance.

Stormwater Management Program – An identified set of measures and activities designed to protect, restore and/or manage Stormwater quality by controlling and/or reducing pollutants and; to reduce and/or manage Stormwater quantity by controlling velocity, volume, and rate of Stormwater.

Stormwater Management User (SMU) Fee – A User Fee, assessed, imposed, and to be collected from SFR Property Owners and NSFR Property Owners which uses, benefits from, or is serviced by the Stormwater System, or discharges Stormwater, directly or indirectly, into the Stormwater System for the use of such system, and the service rendered by and improvement of such system.

Volume Control – Stormwater Management (SWM) controls, or BMPs, used to remove a predetermined amount of runoff or the increase in volume between the pre- and post-development design storm.

Urbanized Area (UA) – Comprised of a densely settled core of census tracts and/or census blocks that meet minimum population density requirements, along with adjacent territory containing non-residential urban land uses as well as territory with low population density included to link outlying densely settled territory with the densely settled core. The UA is as defined by the United States Census Bureau.

Water Quality Benefit - Increasing surface water runoff quality as outlined in the Pennsylvania Stormwater BMP Manual or as defined in the PA MS4 guidelines; whichever are more restrictive.

Credits and Credit Policies

General Policies

1. It is the Owner's responsibility to apply for credits and supply all of the necessary materials with the exception of credits for Non Urbanized Area.
2. Credits are available to all property owners.
3. The maximum amount of credit received **shall not exceed 45% per property**, unless otherwise provided for in these policies.
4. A number of proposed Credits will require a pre-application meeting and/or a field review with LPTA. All Owners interested in installing a new BMP or retrofitting an existing BMP must submit the Pre-Application Meeting Request form provided in Attachment E to LPTA. LPTA will contact the Owner to schedule a mutually agreeable meeting date and time.
5. **Sanitary sewer and stormwater accounts must be current in order to receive Credit(s) /Rebate conferred by these policies.** Credits will be revoked if an account is overdue more than 180 days. Upon becoming current, a property owner may reapply to reinstate the revoked credits.

6. Complete applications will be reviewed within 90 days of submission. Applications requiring review and response from PADEP may take additional review time, however credits requiring additional time will be retroactively applied to date of full application submittal. Applications requiring additional information for approval will be returned for corrections. All proposed BMPs shall comply with the applicable design standards set forth in the Lower Paxton Township Stormwater Management Ordinance (Chapter 170 of the Code of Ordinances: <https://www.ecode360.com/LO1649>) and Pennsylvania Stormwater Best Management Practices Manual including, but not limited to, the use of appropriate professionals, such as Professional Engineers, Professional Geologists, Landscape Architects, Soil Scientists, etc. when required. When applicable, karst hazards, soil investigations, infiltration testing, or other pertinent site-assessment activities should be conducted.
7. LPTA will verify plans, materials, reports, and documentation for accuracy and may inspect any installations or features for proper function related to the Credit Application. If, after review, the accompanying documentation is found to be inaccurate or incomplete, or upon inspection issues are discovered with the installation or operation of the BMP, or Operation and Maintenance Agreement, the Owner will be notified in writing and given sixty (60) days to correct the deficiency. The Owner must provide written documentation to LPTA within sixty (60) days of the original notice that the deficiency has been corrected. Unapproved applications will have 60 days to resubmit before their application is terminated.
8. LPTA shall automatically apply Non Urbanized credits to eligible properties.
9. Credit application review fees are applicable to certain credits. Refer to Table 1 for determination if a credit fee applies. Application review fees are billed on a time and material basis. Refer to the Applying for Credit section of this document for additional detail. A credit application may include multiple related parcels. The applicant must pay for the application review fee(s) in full prior to the Authority approving and issuing the Credit(s).
10. Refer to Table 1 for details on credit expiration timeframes. At the time of expiration, the Credit Policy will be reevaluated at the discretion of the LPTA. Adjustments to the value of credits may be made at that time and/or reapplication required.
11. Approved Credits will be valid until the end of the Authority's permit cycle, except when a term is explicitly noted otherwise. Approved Credits will automatically expire when the property changes ownership. Please note that although the Credits expire upon ownership change, any Operations and Maintenance Agreements, easements, and Access Agreements remain permanently in effect. New Owners will be required to submit a Stormwater Credit Renewal Application form (Attachment B-1) to be eligible for the expired Credit. Reapplication for Credit continuance is required to (1) ensure that the Credit is still applicable to the property, and (2) to ensure the new Owner fully understands the requirements of the Credit, including Operations and Maintenance procedures. All Credits will be reviewed at a minimum of every five (5) years and are subject to alteration or revocation at the discretion of LPTA.
12. Credits will be revoked where qualified BMPs are not maintained, or if Operation and Maintenance Reports, as requested by the Township, are not submitted on time. Upon written notice, LPTA, in its sole discretion, may revoke any previously approved Credit when the Owner

has failed to meet the conditions of the Credit, the conditions of the LPT Operation and Maintenance Agreement. The Owner will be notified in writing of the reason for Credit termination and will be provided with the corrective measures required to have the Credit reinstated. See Right of Inspection/Revocation of Credits.

13. The Lower Paxton Township Authority has full discretion over the credit policy and process.

Eligibility

Credits are available to all property owners as listed in Table 1 and there must not be any outstanding and unpaid SMU Fees or sanitary sewer fees against the property. Owners must submit the appropriate Credit Application along with any documentation required by LPTA.

Credit Details

Owners may apply for one or more Credits, and the Credits will be cumulative up to a maximum Credit of 45% of that property's SMU Fee. In no circumstance may a Credit or group of Credits reduce the applicable SMU Fee to an amount that is less than 55% of the SMU Fee for that property, unless the property meets the requirements of the BMP Easement Credit or Stormwater Partnership Credit.

The SMU Fee for properties with approved Credits will be calculated as follows:

$$\text{Quarterly SMU Fee} = \text{SMU Rate (\$/ERU/Quarter)} \times (1 - \text{Credit Percentage})$$

Where:

SMU Rate = The current per ERU rate as defined in the LPTA SMU Fee Resolution

Credit Percentage = Percentage assigned by LPTA to a Best Management Practice (BMP) as shown in Table 1. Credit percentages may change due to EPA and DEP regulations as well as changes made to the property by the property owner in the course of modifying their land. The Credit Percentage would be determined as a percentage of the impervious area (IA) managed per BMP, up to the maximum credit per BMP allowable.

Summary of Available Credits

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Table 1. Summary of Available Credits by Property Type

Credit	Eligible Property Owners					Max Credit	Application Fee (5)	O&M Agreement Required	Credit Expiration (Refer to Footnote)
	NSFR								
	SFR	ALL	EDUC	NPDES	MS4				
Low Impact Parcel (IA is < 10% of Parcel Area)	X	X				30%	No	No	(1)
Non Urbanized Parcel	X	X				20%	No	No	(1)
BMP Easement	X	X				TBD	Yes	Yes	(1)
Peak Rate Control/Volume Control Structural BMP	X	X				45%	Yes	Yes	(1)
Riparian Buffer	X	X				30%	Yes	Yes	(1)
Stream Restoration (6)	X	X				30%	Yes	Yes	(1)
Turf and Landscape Management Program		X				15%	Yes	Yes	(1)
Permeable Pavement (7)		X				N/A	Yes	Yes	(1)
Green Roofs	X	X				20%	Yes	Yes	(1)
Rain Barrels Rebate	X	X				N/A	No	No	N/A
Education Credit			X			10%	No	No	(1)
Separate MS4 Permit				X	X	40%	Yes	No	(2)
Stormwater Partnership Credit		X				TBD	Yes	Yes	(1)
Agricultural Use Parcels	X	X				30%	Yes	Yes	(1)
Public Participation	X	X				10%	No	No	(3)
Public Participation Credit Donation	X	X				10%	No	No	(3)
Adopt an Inlet	X	X				10%	No	No	(4)

SFR: Single-Family Residential

NSFR: Non Single-Family Residential

ALL: Any NSFR owner who are charged a Stormwater Management Program Fee.

EDUC: Any public or private educational systems (K-12).

NPDES: Properties with a NPDES Industrial Stormwater Permit.

MS4: Properties assigned a Non-Municipal MS4 Permit.

Note that NSFR properties that are categorized as EDUC, NPDES and MS4 are also potentially eligible for NSFR credits listed as ALL.

Footnotes:

- 1) End of Township MS4 Permit Cycle (currently March 31, 2024).
- 2) End of Property Owner's MS4 Permit Cycle.
- 3) December 31st of year applied.
- 4) One year following credit approval.
- 5) Refer to Attachment D for the latest Resolution of application fees. Fees are cumulative for each credit that requires reviewing.
- 6) For stream bank restoration projects, the magnitude of the Credit will be established based on the length of the associated project.
- 7) Permeable pavement (sometimes called pervious pavement or porous pavement) for driveways, parking lots, patios, sidewalks, etc. can reduce property owner's total stormwater fee. Permeable pavement that was installed in accordance with the Pennsylvania Stormwater Best Management Practices Manual and has an existing Operations and Maintenance (O&M) agreement with the Township will be considered for the stormwater fee reduction. As determined by LPTA, the property owner's total impervious surface area may be reduced proportional to the amount of IA/ERU's managed by the BMP.

Credits

Low Impact Parcel (SFR, NSFR)

A parcel is considered a Low Impact Parcel if it meets all of the following conditions:

1. Total IA is less than or equal to 10% of the total parcel area;
2. The IA is not directly connected (for example, but not limited to: gutter, swale, channel, pipe) to a storm sewer, curb line, stream, channel, street or other surface water conveyance; and
3. The IA is a minimum of fifty (50) feet (measured horizontally) from the edge of a stream, channel, wetland, or other surface water conveyance.

If a parcel meets all of the above conditions, it may be eligible for a Credit up to 30%. Portions of the IA may be eligible for Credit even if all the IA does not meet conditions 2 and 3 listed above. For example, a parcel may contain a detached house and a shed. The total IA for the property equals 5.5%, however, the shed is twenty-five (25) feet from a stream, and therefore no Credit is applied for the shed. The house, which meets all three conditions, would receive a 30% Credit for its IA.

Non-Urbanized Parcel (SFR, NSFR)

Parcels which meet the definition of Non-Urbanized Area are eligible for a 20% Credit.

BMP Easement (SFR, NSFR)

LPTA may provide a Credit to Owners who grant a permanent and/or a temporary easement for LPTA to construct, operate and maintain a new stormwater BMP on their property. This Credit is intended for projects on the Township's approved Pollutant Plan that would be financially prohibitive for a property owner to complete on their own, but is an important project for meeting the goals of LPTA's program. The amount of credit will be determined by LPTA on a case-by-case basis that will consider the type of BMP and the easement requested.

Peak Rate Control / Volume Control Structural BMP (SFR, NSFR)

Structural BMPs that control for the rate, volume, and water quality of stormwater generated on the property are eligible for credit. The maximum credit for peak rate, volume control and water quality improvements is 45%.

Peak Rate Credits for the installation of an approved control system per *Lower Paxton Township Stormwater Management Ordinance (SWMO) Chapter 170 - Stormwater Management, Drainage and Erosion Control §170-401 Stormwater Management District Rate Controls* will be eligible for up to 15% Credit for rate control up to the 100-year storm event. This is in addition to any volume

control credit as noted below. Landowners shall maintain, in perpetuity, volume control and water quality BMP's in the approved condition according to the terms of 25 Pa. Code Chapter 102, as applicable, prevailing at the time of approval and provide annual documentation of the same to the Township. Property owners who fail to comply with Township reporting requirements will be ineligible for credits on the subject property in the next quarterly billing cycle.

Any system designed for volume control in accordance with *Lower Paxton Township SWMO Chapter 170 Stormwater Management, Drainage and Erosion Control §170-303 Volume Controls* will be eligible for up to a 15% Credit. This is in addition to any peak rate control noted above. The system must either follow CG-1 from the PADEP Stormwater Management Design Manual by not increasing the post-development total runoff volume when compared to the predevelopment total runoff volume for the two year/twenty-four-hour storm event, or follow CG-2 if the site disturbance is under one acre. Approved volume system control systems may be, but are not limited to, infiltration basins, infiltration trenches, and rain gardens. See the Pennsylvania Stormwater BMP Manual section 6.4 for more information on the listed systems as well as other options.

Any system designed for water quality improvements in accordance with *Lower Paxton Township SWMO Chapter 170 Stormwater Management, Drainage and Erosion Control §170-301 and State Regulation Pa. Code, Chapters 93 and 96* will be awarded a 15% Credit. This is in addition to any peak rate or volume control credits noted above. These are systems containing BMP's that protect or improve water quality of receiving streams. Approved water quality improvements are BMP's which help with compliance with the Township's MS4 requirements under Minimum Control Measures regarding post construction or their PRP plan, etc. See the Pennsylvania Stormwater BMP Manual Chapter 6 for more information on the listed systems as well as other options.

A detailed inspection schedule and maintenance schedule shall be developed. The maintenance schedule should include a detailed step by step procedure on how the control system shall be maintained in order to work in perpetuity. Include contact information of the person responsible for the O&M in accordance with *Lower Paxton Township SWMO Chapter 170 Stormwater Management, Drainage and Erosion Control Article VI*. Inspection and maintenance logs should be maintained. All control systems shall be contained within a minimum 20 foot SWM easement. Access to the SWM easement shall be provided from the nearest public right-of-way.

Existing BMPs can be retrofitted to provide new function and would be eligible for Credits for the existing and new functions. The Credits only apply to the IA controlled by the BMPs. Peak rate, volume control, and water quality calculations shall be in compliance with the Township. Previously installed control systems may also apply for this Credit assuming they are in proper working order and are approved by a Pennsylvania licensed professional engineer. Credits will be prorated to the amount of IA managed relative to total IA on site. For previously installed control systems, applicants will be required to provide a permanent access easement, acceptable to the Authority, to provide access for the Authority inspection.

Riparian Buffer (SFR, NSFR)

LPTA may grant up to a 30% Credit for those Owners who create and/or maintain a protected riparian buffer alongside a stream on their property. The riparian buffer can be existing or a newly-planted buffer of native plants. To be eligible for a Credit, a minimum of twenty-five (25) contiguous linear

feet of stream must be buffered from top of bank and a minimum of 35 feet (measured horizontally). The Credit will apply only to the IA on the property draining to the buffer.

If property conditions are limiting (proximity to property line, roads, structures, etc.), buffers with less than 25 feet horizontal width may be considered for Credit. Please note projects requiring PADEP permits may have more stringent requirements. The amount of the Credit will be dependent on site-specific conditions including, but not limited to, contributing IA and buffer width and length. Interested Owners should contact LPTA prior to project initiation. All riparian buffer projects will require an operations and maintenance (O&M) plan to ensure the continued functionality of the BMP, as well as submission of inspection reports to LPT to demonstrate that the BMP is providing Water Quality Benefit.

Stream Restoration (SFR, NSFR)

LPTA may grant up to a 30% credit for those Owners who complete and maintain an approved stream restoration project. The total length of stream restoration associated with the project must include a minimum of one hundred (100) contiguous linear feet of stream and a minimum of 35 feet measured horizontally from top of bank. The project may fall on multiple contiguous properties.

For the purposes of eligibility determination, stream restoration is defined as any natural channel design, wet channel regenerative stormwater conveyance, legacy sediment removal or other stream modifications intended to restore natural forms and processes that reduce streambank or streambed erosion and capture pollutants. If property conditions are limiting (proximity to property line, roads, structures, etc.), projects with less than 35 feet horizontal width on each side of the stream may be considered for partial Credit.

Please note stream bank restoration projects requiring to meet other PADEP permit obligations may have more stringent requirements and may not be eligible for this Credit (per PADEP). Stream restoration projects must be approved by a licensed Pennsylvania engineer. This credit is available to property owners whose property contains an existing channel or streambank erosion on an actively enlarging or incising urban stream condition prior to restoration (an existing problem). The amount of the Credit will be dependent on site-specific conditions. Interested Owners should contact LPTA prior to project initiation. All stream restoration projects will require an operations and maintenance (O&M) plan to ensure the continued functionality of the BMP, as well as submission of inspection reports to LPT to demonstrate that the BMP is providing Water Quality Benefit.

Turf and Landscape Management Program (NSFR)

Educational institutions, public recreation facilities, golf courses and cemeteries with lawns or landscape areas where fertilizers (organic or inorganic) and pesticides are typically applied may apply for a 15% Credit if all of the following are completed:

1. A soil fertility sample is collected and submitted to the Pennsylvania State Agricultural Analytical Services Laboratory for a soil fertility test. A sample must be taken a minimum of once every three years and a copy of the results must be submitted to LPTA with the Credit Application;

2. The property owner must commit to the recommendations provided on the soil fertility report, including the application of lime if recommended; and
3. The property owner must commit to following the fertilizer, lime, and pesticide application recommendations provided by LPTA.

The IA of the parcel cannot exceed 40% of the total parcel area to be eligible for this Credit.

Permeable Pavement (, NSFR)

Permeable pavement (sometimes called pervious pavement or porous pavement) or pavers for driveways, parking lots, patios, sidewalks, etc. can reduce property owner's total stormwater fee. Permeable pavement that was installed in accordance with the Pennsylvania Stormwater Best Management Practices Manual and has an existing Operations and Maintenance (O&M) agreement with the Township will be considered for the stormwater fee reduction. The property owners total impervious surface area may be reduced proportional to the amount of IA/ERU's managed by the BMP.

For proposed new installations, as part of a new Land Development Plan on an undeveloped parcel, in accordance with the LPT Stormwater Ordinance, the permeable pavement area is not considered an impervious surface and is not included in the stormwater fee calculation to be billed to the new account.

Green Roofs (SFR, NSFR)

A property is eligible for a Green Roof Credit when a green roof is installed on a building. The design, construction, and maintenance plan must meet as a minimum, the requirements noted for such facilities in the Pennsylvania Stormwater Best Management Practices Manual or approved recognized engineered equivalent. Green roofs may be eligible for a Credit up to 20%.

Rain Barrel Rebate (SFR, NSFR)

LPTA will grant a One-Time Fee Rebate of \$100 per rain barrel for up to two downspouts on the property which are properly connected to a rain barrel, cistern, or other approved containment device that provides a minimum of 50 gallons of storage per downspout. A rain barrel that exists at the time of implementing the credit policy are eligible for the rebate. For existing rain barrels, owners will be required to submit the application and LPTA will schedule and perform an inspection to confirm the rain barrel is connected and operating properly. If approved, the property owner will receive the rebate within 45 days of the inspection. For new rain barrel installations, owners will be required to submit the application and attach proof of purchase, LPTA will schedule and perform an inspection to confirm the rain barrel is connected and operating properly, if approved, the property owner will receive the rebate within 45 days of the inspection.

For NSFR properties, the Authority will review the use of containment devices on an individual basis.

Education Credit (NSFR)

It is the goal of LPTA to encourage both public and private educational systems (K-12) to educate and inform their students on the importance of surface water, ground water, and stormwater resources, and how they can play a role in preserving and restoring the physical, chemical, and biological integrity of the Township's water resources.

The educational program may include participation in a water resource-themed student poster session or science fair, take-home materials, classroom lessons, field trips, etc. The educational program/materials must be preapproved by LPTA. The following list of educational resources and materials are provided as examples, but is not meant to exclude other educational material that may be approved by LPTA:

- PSU Extension: *Rain to Drain – Slow the Flow*
- EPA NPDES Stormwater Outreach Materials and Reference Documents
- EPA Teacher Resources and Lesson Plans
- EPA Water Science and Technology for Students and Educators
- USGS Education Resources
- Soil Science Society of America: *Soils 4 Teachers*

A school with more than 50% of its students enrolled in levels below Kindergarten (i.e. pre-K, pre-school, daycare, etc.) is not eligible for an Education Credit. Eligible education institutions may be granted up to a 10% Credit based on the following criteria:

- **Level One Education Credit:** A 10% Education Credit is available to a qualifying education institution which educates 50% to 74% of the grade levels within the school or school system.
- **Level Two Education Credit:** A 15% Education Credit is available to a qualifying education institution which educates 75% to 100% of the grade levels within the school or school system.

Education Credits only apply to the IA associated with the teaching facility and associated infrastructure. For example, the Credits would be applied to a High School building and its parking lot, but not to the School District Administrative offices that oversee the High School. Student living quarters, such as dorms, are also not eligible for Education Credits. Education Credits are valid for one (1) year but will be renewable each year the curriculum is taught.

Churches and religious organizations are eligible for the education credit per the requirements mentioned above. Institutions of higher education may participate as part of the Stormwater Partnership Credit.

Separate MS4 Permit (NSFR)

A 40% Credit is available to those properties that have been identified by PADEP as being required to obtain and comply with the terms of a Non-Municipal MS4 permit which includes implementing a pollution reduction plan (PRP). To be eligible for the Credit, the MS4 permit must be kept in full compliance and LPTA must be provided a copy of the MS4 permit as well as copies of the annual reports. Properties with a Non-Municipal MS4 permit which does not require PRP implementation are eligible for a maximum credit of 20%.

Stormwater Partnership Credit (NSFR)

LPTA recognizes that the ultimate goal of the stormwater program and credit policy is to improve local and regional water quality. Therefore, LPTA encourages customers to propose other means to improve their property and our community through the use of innovative stormwater technologies. If a LPTA stormwater customer has an idea for a project that could be worth stormwater credits, LPTA encourages the customer to submit the project idea under the Stormwater Partnership Credit. Credit will be based upon benefit analysis demonstrating actual stormwater program cost reduction to be realized by LPTA.

Agricultural Use Credit (SFR, NSFR)

A range of credits are available for properties where agricultural E&S plans and/or manure/nutrient management plans are required according to Pennsylvania regulations, typically overseen by the Conservation District. LPTA may grant up to 30% credit for agricultural BMPs that are planned and fully implemented according to the applicable planning schedule, especially for properties that employ particular high performance water quality BMPs. Each approved and still relevant plan, approved within three months of the stormwater fee being in place, is worth 5% credit. Upon annual verification that each plan is being implemented according to the prescribed schedule, 10% credit per plan is offered by LPTA. Should a property owner/operator be willing to go above and beyond the minimum agricultural water quality requirements, additional credit may be negotiable (e.g. farm is in compliance and is willing to work with LPTA, or a partner organization, on a stream restoration project and, thereby, install streambank fencing).

Public Participation (SFR, NSFR)

LPTA believes a strong Stormwater Management Program is predicated on public participation and involvement to help address water quality issues. LPTA customers who participate in certain state sponsored or LPTA pre-approved events to promote water quality and sound stormwater management principles will be eligible for Credit. The following activities are eligible for a Credit:

- Spending four (4) hours participating in a stream clean-up.
- Spending four (4) hours participating in a roadside clean-up.
- Participating in an LPTA or other approved tree planting activity.
- Participating in any other proposed public participation activity pre-approved by LPTA.
- Sponsoring any other public participation activity pre-approved by LPTA.

Credits are earned for every hour served. One (1) Credit hour is equal to \$1.60 per quarter (\$6.40 per year). Earned Credits cannot exceed 10% of the SMU Fee for a property. A minimum of four (4) hours are required to qualify for the Credit. Credits hours are cumulative. For example, four (4) people could participate for one (1) hour each and that would be equivalent to one (1) person participating for four (4) hours. Participation Credits can only be applied to one (1) parcel if a customer owns more than one (1) parcel. However, a customer with multiple parcels can earn additional Participation Credits to apply to different parcels as long as a minimum of four (4) hours are earned for each parcel. Public participation Credits are valid for one (1) year and will be applied to a customer's stormwater bill beginning with the July or January bill following participation in the event.

Public Participation Credit Donation (SFR, NSFR)

LPTA stormwater customers who earn Public Participation Credit may participate and earn credit on behalf of a non-profit organization (such as a church or food bank) or on behalf of a school. Activities must be preapproved by LPTA.

The following are examples of activities eligible for a Credit:

- Participating in a stream or roadside clean-up.
- Participating in an LPTA or other approved tree planting activity.
- Hosting a student-sponsored educational event at a public venue.
- Participating in any other proposed public participation activity pre-approved by LPTA.
- Sponsoring any other public participation activity pre-approved by LPTA.

Credits are earned for every hour served. One (1) Credit hour is equal to \$1.60 per quarter (\$6.40 per year). A minimum of four (4) donated hours are required to qualify for the Credit, but do not have to be donated from the same individual. Donated Credits do not have to be from the same event, and individuals may participate in as many qualifying events as they choose. Donated Credits will be tallied over a calendar year and applied to the Stormwater bill beginning in January of the year following the donation. Donated Credits cannot exceed 10% of the SMU Fee for the recipient property. Credits are valid for one (1) year. Contact should be made with LPTA prior to the event to receive all required forms and documentation.

Adopt an Inlet (SFR)

LPTA will grant customers a 10% Credit for participating in the Adopt an Inlet program. Although residents may adopt as many inlets as they like, only one adopted inlet will be applied per SFR for the purpose of Credit. Adopted inlets should be in close proximity to the property receiving the Credit. If there are no inlets in close proximity to the property, LPTA may grant permission for a property owner to adopt an inlet elsewhere in the Township. Participants will be responsible for keeping leaves and other debris away from their adopted inlet. Approved participants will receive periodic emails to alert them to check on and remove surface debris from their adopted inlet.

Applying for Credit

Pre-Application Meeting and Field Review

A number of proposed Credits will require a pre-application meeting and/or a field review with LPTA. All Owners interested in installing a new BMP or retrofitting an existing BMP should submit the Pre-Application Meeting Request form provided in Attachment E to LPTA. Township Staff will contact the Owner to schedule a mutually agreeable meeting date and time or provide notification if the specific installation does not necessitate a pre-application meeting.

Credit Application

In order to receive Credit, all Owners must follow the subsequent application process. Materials can be mailed or personally delivered to LPTA at 425 Prince Street, Harrisburg, PA 17109, Attn: Sewer Director. Properly submitted and complete applications will be reviewed by LPTA within 90 days of submission, unless extended by good cause shown. The applicant will be notified in writing whether or not the credits applied for were approved. Unapproved applications will have 60 days to resubmit before their application is terminated. Approved applicants will receive a letter stating the credit amount and that credits will be applied with the next quarterly billing cycle. Applicants/Owners who are required to have an LPT O&M Agreement will receive the LPT O&M Agreement with the conditional approval letter, indicating that the owner must sign and return the agreement to LPTA within 60 days (failure to do so will terminate the Credits). The agreement requires a Notary, the Township has a Notary available and may provide this service upon request. Credits will then be applied with the next quarterly billing cycle. Credits will be valid through the period of time defined in Table 1, after which time they may be eligible for reapplication. Separate Credit applications must be submitted for each tract of land.

The following documentation must be submitted for an application to be reviewed:

1. Completed and signed credit application form.
 - a. Application forms are available in Attachment A, online at the Township website, and at the Township office (located at the address listed above).
2. Photographs of the site showing layout, inlets, outlets, etc.
3. Owner's Operation and Maintenance Plan.
4. Previous 1-year maintenance log. (Existing facilities only)
5. Application fee applies to certain credits. Refer to Table 1.
6. LPTA has the right to require submission of design documentation, as-built or construction drawings, and an engineering analysis from a Pennsylvania licensed professional engineer. Notification of this requirement will be provided in response to the Pre-Application Meeting Request.
7. LPTA has the right to require documentation from a licensed engineer that the facility is in proper working order. (Existing facilities only).
8. Additional documentation may be required at the request of LPTA.

Maintenance Policies

Property owners that receive Credits may be required to have a pre-existing signed LPT O&M agreement or may be required to sign a LPT O&M Agreement in order to qualify for the credit. See Table 1 for credits that require the O&M Agreement. For property owners that have a pre-existing signed LPT O&M agreement, the owner shall provide the approved SWM Site Plan, approved Maintenance Plan and the signed O&M agreement. Owner shall also provide proof that the stormwater BMP's, as required by said Plan, are adequately operated and maintained by the owner.

Owners that do not have a signed LPT O&M agreement must provide the existing plan approved by the Township showing the BMP, the proposed maintenance plan and proof that the BMP has been adequately operated and maintained by the owner. If the credit application is approved by the Authority, owner will

be required to sign a new LPT O&M agreement. Please note that the LPT O&M Agreement is required to be recorded in the Courthouse by the property owner and proof of recording provided to LPT before the credit application is approved.

For Owners that do not have a signed LPT O&M agreement, the basic minimum maintenance requirements that should be listed in an Operation and Maintenance Plan are, but not limited to:

- Sediment shall be removed when approximately 30% of storage volume of the facility is filled.
- Any sediment traps shall be cleaned when filled.
- No woody vegetation shall be allowed to grow on embankments unless called for in the facility's design.
- Debris shall be removed from the inlet, outlet, and any other structures that have the potential to clog. All systems should be checked at minimum 4 times per year and within 48 hours after any major rain events of >1".
- Documentation of inspections as required by the Township.
- Previous year's maintenance logs must be submitted to the Township in accordance with the schedule approved by the Township.
- Control structures shall remain unaltered, intact, and functioning as originally designed unless otherwise determined by the Township and/or LPTA staff with written notification.
- See Pennsylvania Stormwater BMP Manual for system specific inspection details.

Right of Inspection/Revocation of Credits

When applying for a Credit, the Owner agrees that properly identified LPT personnel may at reasonable times enter any property unannounced to inspect the property or condition or operation of BMPs. If, after its review or inspection, LPT staff finds the BMPs or Operations and Maintenance Agreement out of compliance with either the Credit Application or operational requirements, the Owner will be notified in writing and given sixty (60) days to correct the inaccuracy or non-compliance ("Notice of Non-Compliance").

The Owner will have sixty (60) days following the receipt of the Notice of Non-Compliance to provide LPTA written documentation and evidence satisfactory to LPTA staff that the issues described in the Notice of Non-Compliance have been corrected. If the Owner fails to provide a written response within the designated time frame or if the issues described in the Notice of Non-Compliance have not been corrected, the Credit will be suspended the following billing cycle. The Credit suspension will remain in effect a minimum of three (3) months. The Owner may reapply for the Credit once it has documentation, satisfactory to LPTA staff, that the issues described in the Notice of Non-Compliance have been corrected and that the BMP has been functioning in compliance with the requirements for a minimum of three (3) months.

Credit Renewal

Credits expire after the period of time defined in Table 1 and many may be renewed to the extent permitted by controlling laws or regulations. Materials can be mailed or personally delivered to LPTA at 425 Prince Street, Harrisburg, PA 17109, Attn: Sewer Director. Failure to do so may result in Credits not being renewed before they expire. Renewal applications will be reviewed by LPTA within 90 days of submission. The applicant will be notified only if the credits are not renewed. Unapproved applications will have 60 days to resubmit before their application is terminated without a fee reimbursement. Approved applicants will receive a letter along with a renewed credit agreement that must be signed and returned to LPTA within 60 days (failure to do so will terminate the Credits). The signed agreement must be returned at least 15 days before the next billing period to guarantee that the renewed Credits will be applied to the next billing period.

The following documentation must be submitted for a renewal application to be reviewed.

1. Completed and signed renewal application form.
 - a. Application forms are available in Attachment B, online at the Township website, and at the Township office (located at the address listed above).
2. Current (1 month or less before submission) photographs of the site showing layout, inlets, outlets, etc.
3. Provide previous year's maintenance log.
4. Provide documentation from a Pennsylvania licensed professional engineer that the facility is in proper working order, where required by LPTA.
5. For MS4 Permit Compliance Credits documentation must be provided showing compliance with permit limits/regulations over the proceeding 3-year period.

Reassessments

Reassessment of Properties

Applying for reassessment is encouraged, if changes have been made to a property. **If impervious surface has been removed from a property it will be removed from the fee.** Application forms are available in Attachment C, online at the Township website, and at the Township office. Materials can be mailed or personally delivered to the Township office. Within 60 days of being received, Township Staff will contact the owner with information about the status of the application as well as instructions about how to proceed. There is a \$50 fee for reassessment of properties. Property Owners may submit for reassessment once per calendar year.

Attachment A – Credit Application

Stormwater Credit Application Form

Credit Application Instructions

1. This form is provided to LPTA stormwater customers who believe they qualify for an approved Stormwater Credit. Customers should review the LPTA Credit Manual for eligibility requirements. Accounts must be current for credits to be considered.
2. Please fill out all sections on the first page of the form (except for the last section marked "For LPTA Use Only".) Please fill out all applicable sections on pages 1 and 2 related to the Credits you are applying for (except for the last section marked "For LPTA Use Only".).
3. You may attach supporting documentation to the form. Please note that any submitted documentation will not be returned to the customer. Please mail completed form to:

Lower Paxton Township Authority
425 Prince Street, Harrisburg, PA 17109
Attn: Sewer Director

4. An LPTA representative will review the Stormwater Credit Application Form within 90 days of receipt of the completed form.

Attached Documents

The following documentation must be submitted for an application to be reviewed

- 1 Completed and signed credit application form.
2. Photographs of the site showing layout, inlets, outlets, etc.
3. Obtain owner's operation and maintenance plan.
4. Provide previous year's maintenance log. (Existing facilities only)
5. Provide application fee, if required, per Table 1.
6. LPTA may require for the following additional documentation to be submitted:
 - a. Design documentation, as-built or construction drawings, and an engineering analysis from a Pennsylvania licensed professional engineer.
 - b. Documentation from a licensed engineer that the facility is in proper working order. (Existing facilities only)
 - c. Other documentation as may be required at the request of the Authority.

Please review LPTA's Stormwater Management Program Credit Manual before applying

Select the credit(s) being applied for (check applicable boxes):

<input type="checkbox"/> BMP Easement *	<input type="checkbox"/> Green Roofs *
<input type="checkbox"/> Peak Rate Control/Volume Control Structural BMP *	<input type="checkbox"/> Education Credit
<input type="checkbox"/> Riparian Buffer *	<input type="checkbox"/> Separate MS4 Permit *
<input type="checkbox"/> Stream Restoration *	<input type="checkbox"/> Stormwater Partnership Credit
<input type="checkbox"/> Turf and Landscape Management Program *	<input type="checkbox"/> Adopt an Inlet
<input type="checkbox"/> Permeable Pavement	<input type="checkbox"/> Agricultural Use Credit *
Note: An asterisk denotes fees to be paid by the applicant for application review.	<input type="checkbox"/> Rain Barrels Rebate

Customer Information

Owner's Name: _____

Phone Number: _____ Alt. Phone Number: _____

E-mail: _____

Property Address: _____

Mailing Address: _____

Account Number: _____

Stormwater Credit Application Form (Cont.)

Turf and Landscape Management Program

Check all boxes that apply:

- I agree to submit a soil sample and provide LPTA with a copy of the results at least once every three years.
- I agree to follow the recommendations provided on the soil fertility report, including the application of lime if recommended.
- I agree to follow the fertilizer, lime and pesticide application recommendations provided by LPTA.

Please attach a copy of the soil fertility report.

Public Participation Credit Donation

Check only one box:

- I want to donate my participation credits to an eligible non-profit.

Name of Event: _____ Date of Event: _____

Participant Name*: _____ Number of Hours*: _____

Name of Organization: _____

Address of Organization: _____

*Please attached a list of event participants and hours served if more than one person participated.

Additional Credits

If you are applying for any of the following credits, LPTA may contact you to discuss the details of the credit after you submit page 1 of the application.

- Peak Rate Control/Volume Control Structural BMP
- Riparian Buffer
- Stream Restoration
- Permeable Pavement
- Green Roofs
- Education Credit
- Separate MS4 Credit
- Stormwater Partnership Credit
- Agricultural use Parcels

Confirmation of Credit Conditions and LPTA Access Rights

I, (please print name) _____ agree to all conditions of the Credits I have applied for as outlined in the *Lower Paxton Township Authority Stormwater Management Program Credits and Incentives Manual*. Additionally, I agree that Lower Paxton Township Authority may at reasonable times enter my property to inspect the property or condition or operation of BMPs.

Signature: _____ Date: _____

FOR LPTA USE ONLY

Date Received: _____	Credit(s): <input type="checkbox"/> Granted <input type="checkbox"/> Denied
Date Reviewed: _____	Reviewer: _____

Attachment B – Renewal Application

DRAFT

Stormwater Credit Renewal Application Form

Credit Renewal Application Instructions

1. This form is provided to existing LPTA stormwater customers who are renewing stormwater credit. Customers should review the LPTA Credit Manual for eligibility requirements for Credits. Accounts must be current for renewal applications to be considered.
2. Please fill out all sections on the form, except for the last section marked "For LPTA Use Only".
3. Please mail completed form to: Lower Paxton Township Authority
425 Prince Street, Harrisburg, PA 17109
Attn: Sewer Director
4. An LPTA representative will review the Stormwater Credit Application Form within 90 days of receipt of the completed form.

Attached Documents

The following documentation must be submitted for an application to be reviewed

1. Completed and signed credit application form.
2. Current (1 month or less before submission) photographs of the site showing layout, inlets, outlets, etc.
3. Obtain owner's operation and maintenance plan.
4. Provide previous year's maintenance log.
5. LPTA may require the following additional documentation to be submitted:
 - a. Documentation from a licensed engineer that the facility is in proper working order. (Previously existing facilities only)
 - b. Other documentation as may be required at the request of the Authority.

Please Mark All Credits That Apply

<input type="checkbox"/> BMP Easement	<input type="checkbox"/> Green Roofs
<input type="checkbox"/> Peak Rate Control/Volume Control Structural BMP	<input type="checkbox"/> Education Credit
<input type="checkbox"/> Riparian Buffer	<input type="checkbox"/> Separate MS4 Permit
<input type="checkbox"/> Stream Restoration	<input type="checkbox"/> Stormwater Partnership Credit
<input type="checkbox"/> Turf and Landscape Management Program	<input type="checkbox"/> Adopt an Inlet
<input type="checkbox"/> Permeable Pavement	<input type="checkbox"/> Agricultural Use Parcel

Customer Information

Owner's Name: _____

Phone Number: _____ Alt. Phone Number: _____

E-mail: _____

Property Address: _____

Mailing Address: _____

Account Number: _____

I, (please print name) _____ agree to all conditions of the Credits associated with the above referenced property as outlined in the *Lower Paxton Township Authority Stormwater Management Program Credit Manual*. Additionally, I agree that Lower Paxton Township Authority may at reasonable times enter my property to inspect the property or condition or operation of BMPs. I also understand my obligations to any conditions listed in any Operation and Maintenance Agreements that are in existence for this property with LPTA.

Signature: _____ Date: _____

FOR LPTA USE ONLY

Date Received: _____	Credit(s): <input type="checkbox"/> Granted <input type="checkbox"/> Denied
Date Reviewed: _____	Reviewer: _____

Attachment C – Reassessment Application

DRAFT

Stormwater Reassessment Form

Reassessment Instructions

1. This form is provided to LPTA stormwater customers who have reduced their Impervious Area (IA) coverage or believe their IA or fee was improperly calculated.
2. Please fill out all sections on the form, except for the last section marked "For LPTA Use Only".
3. You may attach supporting documentation to the form. Please note that any submitted documentation will not be returned to the customer. Please mail or hand deliver completed form to:

Lower Paxton Township Authority
425 Prince Street, Harrisburg, PA 17109
Attn: Sewer Director

4. An LPTA representative will review the Stormwater Appeal and Reassessment Form within 60 days of receipt of the completed form.
5. Approved adjustments will be applied to the current stormwater bill and future billings, as deemed appropriate.

Attached Documents

The following documentation must be submitted for a reassessment application to be reviewed

1. Completed and signed Reassessment Application Form.
2. Provide \$50 application fee.

Appeal Information

Select the revision(s) being requested (check applicable boxes):

Impervious Area on Property has been reduced by the Property Owner. Provide a brief description of why the reassessment is necessary. Include \$50 reassessment fee.

Reassessment IA Estimate: _____

Signature: _____ Date: _____

Customer Information

Owner's Name: _____

Phone Number: _____ Alt. Phone Number: _____

E-mail: _____

Property Address: _____

Mailing Address: _____

Account Number: _____

FOR LPTA USE ONLY

Date Received: _____	Credit(s): <input type="checkbox"/> Granted <input type="checkbox"/> Denied
Date Reviewed: _____	Reviewer: _____

Attachment D – Latest Stormwater Fee Resolution

DRAFT

Attachment D

APPLICATION CREDIT REVIEW FEE SCHEDULE (Refer to Table 1 on Page 10)	Fee Range (1)
BMP Easement	\$140 - \$220
Peak Rate Control/Volume Control Structure BMP	\$170 - \$250
Riparian Buffer	\$140 - \$220
Stream Restoration	\$1,000 - \$1,500
Turf and Landscape Management Program	\$170 - \$250
Permeable Pavement	\$140 - \$220
Green Roofs	\$1,000 - \$1,500
Separate MS4 Permit	\$1,200 - \$1,700
Stormwater Partnership Credit	\$500 - \$580
Agricultural Use Credit	\$170 - \$250

Note: (1) The fee ranges shown are estimates. The fee will depend on the completeness of the application, the information provided by the property owner or the property owner's consultant and the complexity of the proposed BMP. The application will be reviewed on a time and material basis and applicant must agree to pay all review fees at time of application.

Attachment E – Pre-Application Meeting Request Form

DRAFT

Stormwater Credit Pre-Application Meeting Request Form

Pre-Application Meeting Request Instructions

1. This form is provided to LPTA stormwater customers who want to install a new BMP or retrofit an existing BMP to become eligible for LPTA stormwater Credit. Customers should review the LPTA Credit Manual for eligibility requirements for Credits. Accounts must be current for credits to be considered.
2. Please fill out all sections on the form, except for the last section marked "For LPTA Use Only".
3. Please mail completed form to:

Lower Paxton Township Authority
 425 Prince Street, Harrisburg, PA 17109
 Attn: Sewer Director
4. An LPTA representative will review the Stormwater Credit Application Form within 90 days of receipt of the completed form.

Please Mark All That Apply

- I want to install a new BMP
- I want to retrofit an existing BMP
- I want to discuss a BMP easement, riparian buffer, stream restoration project
- I have an idea for a project that might qualify for the Stormwater Partnership Credit
- Other: _____

Customer Information

Owner's Name: _____

Phone Number: _____ Alt. Phone Number: _____

E-mail: _____

Property Address: _____

Mailing Address: _____

Account Number: _____

Parcel ID (if known): _____

FOR LPTA USE ONLY

Date Received: _____	Credit(s): <input type="checkbox"/> Granted <input type="checkbox"/> Denied
Date Reviewed: _____	Reviewer: _____

	2019 Estimated	2020 Projected	2021 Projected	2022 Projected	2023 Projected
Account 40 Revenues	\$2,112,720.00	\$4,134,806.00	\$3,826,347.92	\$3,775,645.19	\$3,881,026.34
Account 40 Expenses					
4001- Administration	\$1,175,220.00	\$1,647,773.00	\$1,688,967.33	\$1,731,191.51	\$1,774,471.30
4300- Operations Facility	\$209,650.00	\$262,400.00	\$268,960.00	\$275,684.00	\$282,576.10
4700- Debt Service	\$0.00	\$578,135.00	\$574,800.00	\$574,800.00	\$574,800.00
Total Expenses	\$1,384,870.00	\$2,488,308.00	\$2,532,727.33	\$2,581,675.51	\$2,631,847.40

Reserves

Target Reserves (25% Expenses)	N/A	\$622,077.00	\$633,181.83	\$645,418.88	\$657,961.85
Annual Operating Reserves	\$727,850.00	\$1,646,498.00	\$1,293,620.60	\$1,193,969.68	\$1,249,178.94
Cummulative Operating Reserves	\$727,850.00	\$2,374,348.00	\$3,667,968.60	\$4,861,938.27	\$6,111,117.21

Notes:

- (1) Revenues reflecting current rate less estimated 10% credits
- (2) Administration and Public Works Facility expenses increased at 2.5% per year.
- (3) Includes 2019 Series Bond (2019-2023), a 2023 Series Bond for 2023 (\$10 million, 30 years, 5.0%) and a 2027 Series Bond for 2027 (\$1

2024	2025	2026	2027	2028	2029
------	------	------	------	------	------

\$3,908,378.51	\$3,935,739.44	\$3,963,109.21	\$3,990,487.92	\$4,017,875.65	\$4,045,272.50
----------------	----------------	----------------	----------------	----------------	----------------

\$1,818,833.08	\$1,864,303.91	\$1,910,911.50	\$1,958,684.29	\$2,007,651.40	\$2,057,842.68
\$289,640.50	\$296,881.52	\$304,303.55	\$311,911.14	\$319,708.92	\$327,701.64
\$870,578.77	\$870,578.77	\$870,578.77	\$1,617,627.45	\$1,617,627.45	\$1,617,627.45
\$2,979,052.35	\$3,031,764.19	\$3,085,793.82	\$3,888,222.88	\$3,944,987.77	\$4,003,171.77

\$744,763.09	\$757,941.05	\$771,448.46	\$972,055.72	\$986,246.94	\$1,000,792.94
\$929,326.16	\$903,975.25	\$877,315.39	\$102,265.04	\$72,887.89	\$42,100.72
\$7,040,443.37	\$7,944,418.62	\$8,821,734.01	\$8,923,999.05	\$8,996,886.94	\$9,038,987.66

ERUs
% Delinquent
\$/yr/ERU
Fee Revenue
Other Revenues
Credit
Total Revenues
Annual Reserves
Cum Reserves
Target Reserves
Paygo

2023 Series

\$4,546,844.63
30 years at 5.0%
\$295,778.77

0 million, 30 years, 5.0%)

2020	2021	2022	2023	2024	2025	2026	2027
32965	33200	33435	33670	33905	34140	34375	34610
3%	3%	3%	3%	3%	3%	3%	3%
128	128	128	128	128	128	128	128
\$4,039,806.00	\$4,156,108.80	\$4,098,818.54	\$4,214,945.28	\$4,244,363.52	\$4,273,781.76	\$4,303,200.00	\$4,332,618.24
\$85,000.00	\$85,850.00	\$86,708.50	\$87,575.59	\$88,451.34	\$89,335.85	\$90,229.21	\$91,131.50
\$0.00	\$415,610.88	\$409,881.85	\$421,494.53	\$424,436.35	\$427,378.18	\$430,320.00	\$433,261.82
\$4,134,806.00	\$3,826,347.92	\$3,775,645.19	\$3,881,026.34	\$3,908,378.51	\$3,935,739.44	\$3,963,109.21	\$3,990,487.92
\$1,646,498.00	\$1,293,620.60	\$1,193,969.68	\$1,249,178.94	\$929,326.16	\$903,975.25	\$877,315.39	\$102,265.04
\$2,374,348.00	\$3,667,968.60	\$4,861,938.27	\$6,111,117.21	\$1,587,288.01	\$2,491,263.26	\$3,368,578.65	\$3,470,843.69
\$622,077.00	\$633,181.83	\$645,418.88	\$657,961.85	\$744,763.09	\$757,941.05	\$771,448.46	\$972,055.72
			\$5,453,155.37				\$2,498,787.97

ENTER DATA HERE ==>

128

\$/ERU/Year

32 \$/ERU/Quarter

2027 Series

\$7,501,212.03

30 years at 5.0%

\$487,964.61

2028	2029
34845	35080
3%	3%
128	128
\$4,362,036.48	\$4,391,454.72
\$92,042.82	\$92,963.25
\$436,203.65	\$439,145.47
\$4,017,875.65	\$4,045,272.50
\$72,887.89	\$42,100.72
\$2,571,675.86	\$2,613,776.58
\$986,246.94	\$1,000,792.94



April 20, 2020
VIA ELECTRONIC MAIL

Randy Allen
Lower Paxton Township Dauphin County
425 Prince Street
Harrisburg, PA 17109

Re: Draft NPDES Permit- MS4
Lower Paxton Township Dauphin County MS4
Application No. PAI133540
Authorization ID No. 1209849
Lower Paxton Township, Dauphin County

Dear Mr. Allen:

The Department of Environmental Protection (DEP) has prepared the enclosed draft NPDES permit for your review and comment.

Also enclosed is a copy of a public notice that, in accordance with DEP regulations at 25 Pa. Code § 92a.82(b), you are required to post near the entrance to your premises and, if the facility or discharge location is remote from these premises, at the entrance to the facility or at the discharge location. These postings shall remain for 30 days.

DEP will publish notice of the draft permit in the Pennsylvania Bulletin in the near future. You may provide written comments on the draft permit up to 30 days following publication of this notice. Following the 30-day public comment period (which may be extended by 15 days at DEP's discretion), DEP will consider any comments received and make a decision on whether to issue a final permit.

If you have any questions, please contact me at 717.705.4918 or jrakowsky@pa.gov, or Scott Arwood at 717.783.0368 or sarwood@pa.gov.

Sincerely,

Jacob Rakowsky

Jacob S. Rakowsky, EIT
Environmental Engineering Specialist
Clean Water Program

Enclosures

cc: Bill Weaver, Lower Paxton Township
Erin Letavic, Herbert Rowland & Grubic, Inc.

Mr. Randy Allen

- 2 -

Bcc: Jacob Rakowsky (email)
Scott Arwood (email)
Leah Staley (email)

Bill Weaver
wweaver@lowerpaxton-pa.gov

Erin Letavic
eletavic@hrg-inc.com

IV. NPDES Individual Permit Applications for Stormwater Discharges from MS4s

Southcentral Regional Office: Regional Clean Water Program Manager, 909 Elmerton Avenue, Harrisburg, PA 17110-8200. Phone: 717.705.4800, Email: RA-EPNPDES_SCRO@pa.gov.

PAI133540, MS4, Lower Paxton Township Dauphin County, 425 Prince Street, Harrisburg, PA 17109. The application is for a new individual NPDES permit for the discharge of stormwater from a regulated municipal separate storm sewer system (MS4) to waters of the Commonwealth in Lower Paxton Township, **Dauphin County**. The receiving stream(s), Unnamed Tributary to Paxton Creek (WWF, MF), Unnamed Tributary to Beaver Creek (WWF, MF), Nyes Run (WWF, MF), Unnamed Tributary to Asylum Run (WWF, MF), Slotznick Run (CWF, MF), Unnamed Tributary to Nyes Run (WWF, MF), Beaver Creek (WWF, MF), Paxton Creek (WWF, MF), and Spring Creek (CWF, MF), is located in State Water Plan watershed 7-C and 7-D and is classified for Migratory Fishes, Cold Water Fishes, and Warm Water Fishes, aquatic life, water supply and recreation. The applicant is classified as a small MS4.

The applicant has submitted the following plan(s) with the application to reduce pollutant loads to impaired waters:

- A joint Pollutant Reduction Plan and TMDL Plan with Capital Region Water (Harrisburg City MS4) and Susquehanna Township.

The Department has made a tentative determination to issue the NPDES permit. Written comments on the application and draft permit will be accepted for 30 days following publication of this notice. The period for comment may be extended at the discretion of DEP for one additional 15-day period. You may make an appointment to review the DEP files on this case by calling the File Review Coordinator at 717-705-4732.

The EPA waiver is in effect for small MS4s, and is not in effect for large MS4s.

Application Type New
Facility Type MS4
Permit Type Individual

NPDES PERMIT FACT SHEET
MS4s

Application No. PAI133540
APS ID 956949
Authorization ID 1209849

Applicant and Facility Information

Applicant Name	<u>Lower Paxton Township Dauphin County</u>	Facility Name	<u>Lower Paxton Township Dauphin County MS4</u>
Applicant Address	<u>425 Prince Street</u> <u>Harrisburg, PA 17109</u>	Facility Address	<u>425 Prince Street</u> <u>Harrisburg, PA 17109</u>
Applicant Contact	<u>Randy Allen</u>	Facility Contact	<u>Randy Allen</u>
Applicant Phone	<u>(717) 657-5600</u>	Facility Phone	<u>(717) 657-5600</u>
Client ID	<u>77433</u>	Site ID	<u>614826</u>
SIC Code	<u>9199</u>	Municipality	<u>Lower Paxton Township</u>
SIC Description	<u>Public Admin. - Genral Government, Nec</u>	County	<u>Dauphin</u>
Date Application Received	<u>September 15, 2017</u>		
Date Application Accepted	<u>January 5, 2018</u>		
Purpose of Application	<u>Application for an individual MS4 NPDES permit for discharge of stormwater.</u>		

Internal Review and Recommendations

Per PA Title 25 § 92a.54 because the MS4 discharges to a surface water that requires a TMDL Plan, Lower Paxton Township must seek permit coverage under an individual permit.

Lower Paxton Township discharges to nine (9) receiving waters: Unnamed Tributary to Paxton Creek (WWF, MF), Unnamed Tributary to Beaver Creek (WWF, MF), Nyes Run (WWF, MF), Unnamed Tributary to Asylum Run (WWF, MF), Slotznick Run (CWF, MF), Unnamed Tributary to Nyes Run (WWF, MF), Beaver Creek (WWF, MF), Paxton Creek (WWF, MF), and Spring Creek (CWF, MF)

According to the MS4 Requirements Table, Lower Paxton Township is subject to the following IP appendix requirements:
Appendix B
Appendix C
Appendix D
Appendix F

To comply with Appendices D and F, Lower Paxton Township has submitted a Pollutant Reduction Plan (PRP) and TMDL Plan. The plan is a joint plan with Capital Region Water (Harrisburg City MS4) and Susquehanna Township and combines the Chesapeake Bay PRP and Paxton Creek Watershed TMDL Plan.

There are no unresolved violations associated with Lower Paxton Township that would affect issuance of coverage.

It is recommended that individual permit coverage is granted in accordance with 40 CFR §123.35.

Approve	Deny	Signatures	Date
X		<i>Jacob Rakowsky</i> Jacob S. Rakowsky, EIT / Environmental Engineering Specialist	4/20/2020
X		Scott M. Arwood Scott M. Arwood, P.E. / Environmental Engineer Manager	4/20/2020

Internal Review and Recommendations

DEP has reviewed the revised PRP/TMDL Plan that was dated 12/27/19. DEP offers the following comments and recommendations based on the review, which will be evaluated by DEP during the permit term:

1. Please ensure that existing stream restoration projects, used to reduce the pollutant reduction obligations, meet the minimum qualifying criteria in DEP's stream restoration guidance document and are maintained properly.
2. Please ensure the proposed stream restoration projects meet DEP's stream restoration guidance. In final crediting please ensure that sections of hard armoring are properly accounted for using current Chesapeake Bay Expert Panel guidelines to determine the creditable restoration length.
3. Proposed stream restoration project BMP-12, Greenbelt Parkway, is listed with a length of 1,800 feet. This appears to be "Site 1" of the Paxtang Parkway Watershed Restoration Phase 1 included in Appendix H. Design drawings included in Appendix H are not consistent with the 1,800-foot length. Please resolve this discrepancy before final crediting.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Application Type **New**
 Facility Type **MS4**
 MS4 Type **Small**

**INDIVIDUAL MS4
CHECKLIST**

Application No. **PAI133540**
 APS ID **956949**
 Authorization ID **1209849**

Applicant and Facility Information			
Applicant Name	<u>Lower Paxton Township Dauphin County</u>	Facility Name	<u>Lower Paxton Township Dauphin County MS4</u>
Applicant Address	<u>425 Prince Street</u> <u>Harrisburg, PA 17109</u>	Facility Address	<u>425 Prince Street</u> <u>Harrisburg, PA 17109</u>
Municipality	<u>Lower Paxton Township</u>	County	<u>Dauphin</u>
Receiving Water(s)	<u>Unnamed Tributary to Paxton Creek (WWF, MF), Unnamed Tributary to Beaver Creek (WWF, MF), Nyes Run (WWF, MF), Unnamed Tributary to Asylum Run (WWF, MF), Slotznick Run (CWF, MF), Unnamed Tributary to Nyes Run (WWF, MF), Beaver Creek (WWF, MF), Paxton Creek (WWF, MF), and Spring Creek (CWF, MF)</u>	Ch. 93 Class.	<u>WWF, CWF, and MF</u>
Date Application Received	<u>September 15, 2017</u>		

Checklist		
	<u>Completeness Item</u>	<u>Comments</u>
<input checked="" type="checkbox"/>	1. One original and two copies of complete NOI (3800-PM-BCW0100b).	
<input type="checkbox"/>	2. One original and two copies of complete Waiver Application (3800-PM-BCW0100e) (optional).	
<input checked="" type="checkbox"/>	3. Complete storm sewer system map (existing permittees) (note – new urbanized areas do not require mapping of entire storm sewer collection system).	
<input type="checkbox"/>	4. Topographic map or storm sewer system map (new permittees and existing waivers).	
<input checked="" type="checkbox"/>	5. MOU or written agreement for third party MCM implementation (if applicable).	
<input checked="" type="checkbox"/>	6. Stormwater Management Ordinance (municipal applicants seeking renewed coverage only).	
<input type="checkbox"/>	7. Stormwater Management Ordinance Checklist (3800-PM-BCW0100g) (if applicable).	
<input type="checkbox"/>	8. SOPs (non-municipal applicants seeking renewed coverage only).	

Approve	Deny	Signature	Date
X		<i>Jacob Rakowsky</i> Jacob S. Rakowsky, EIT / Environmental Engineering Specialist	4/20/2020
X		Scott M. Arwood Scott M. Arwood, P.E. / Environmental Engineer Manager	4/20/2020

<input checked="" type="checkbox"/>	9.	Chesapeake Bay PRP (Appendix D) and/or Impaired Waters PRP (Appendix E), where required.
<input checked="" type="checkbox"/>	9a.	PRP public participation requirements – the PRP contains a copy of the public notice advertising the PRP, a copy of all written comments received from the public to the PRP, and a copy of the permittee's record of consideration of all timely comment received in the public comment period.
<input checked="" type="checkbox"/>	9b.	PRP contains a map that identifies land uses and/or impervious/pervious surfaces and the storm sewer shed boundary(ies) (note – this map may be combined with item #3 for existing permittees).
<input checked="" type="checkbox"/>	9c.	PRP contains a section that describes the pollutants of concern.
<input checked="" type="checkbox"/>	9d.	PRP contains existing load calculations for pollutants of concern.
<input checked="" type="checkbox"/>	9e.	PRP selects BMPs to achieve the minimum required reductions in pollutant loading
<input checked="" type="checkbox"/>	9f.	PRP identifies funding mechanisms.
<input checked="" type="checkbox"/>	9g.	PRP identifies responsible parties for operation and maintenance (O&M) of BMPs.
<input checked="" type="checkbox"/>	9h.	For joint PRPs, a written agreement amongst the parties is attached (if applicable).
<input checked="" type="checkbox"/>	10.	TMDL Plan (Appendix F), where required.
<input checked="" type="checkbox"/>	10a.	TMDL Plan public participation requirements (see 9a).
<input checked="" type="checkbox"/>	10b.	Plan contains a map that identifies land uses and/or impervious/pervious surfaces and the storm sewer shed boundary(ies).
<input checked="" type="checkbox"/>	10c.	Plan contains describes the pollutants of concern.
<input checked="" type="checkbox"/>	10d.	Plan contains existing load calculations.
<input checked="" type="checkbox"/>	10e.	Plan identifies wasteload allocations (WLAs).
<input checked="" type="checkbox"/>	10f.	Plan contains an analysis of short- and long-term objectives.
<input checked="" type="checkbox"/>	10g.	PRP selects BMPs to achieve the minimum required reductions in pollutant loading.
<input checked="" type="checkbox"/>	10h.	PRP identifies funding mechanisms.
<input checked="" type="checkbox"/>	10i.	PRP identifies responsible parties for O&M of BMPs.
<input checked="" type="checkbox"/>	10j.	For joint PRPs, a written agreement amongst the parties is attached (if applicable).
<input type="checkbox"/>	11.	Complete NOI packages for each co-applicant (joint NOIs only). NOTE – Each municipality served by an authority must also submit an NOI.

Other Comments:

Refer to Fact Sheet for Internal Review and Recommendations.



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
INDIVIDUAL PERMIT TO DISCHARGE STORMWATER FROM
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4s)**

NPDES PERMIT NO. PAI133540

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 et seq. ("the Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 et seq.,

**Lower Paxton Township Dauphin County
425 Prince Street
Harrisburg, PA 17109**

is authorized to discharge from a regulated small municipal separate storm sewer system (MS4) located in **Lower Paxton Township, Dauphin County** to **Unnamed Tributary to Paxton Creek (WWF, MF), Unnamed Tributary to Beaver Creek (WWF, MF), Nyes Run (WWF, MF), Unnamed Tributary to Asylum Run (WWF, MF), Slotznick Run (CWF, MF), Unnamed Tributary to Nyes Run (WWF, MF), Beaver Creek (WWF, MF), Paxton Creek (WWF, MF), and Spring Creek (CWF, MF)** in Watershed(s) **7-C and 7-D** in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

THIS PERMIT SHALL BECOME EFFECTIVE ON _____

THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON _____

The authority granted by coverage under this Permit is subject to the following further qualifications:

1. The permittee shall comply with the effluent limitations and reporting requirements contained in this permit.
2. The application and its supporting documents are incorporated into this permit. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions shall apply.
3. Failure to comply with the terms, conditions or effluent limitations of this permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. (40 CFR 122.41(a))
4. A complete application for renewal of this permit, or notice of intent to cease discharging by the expiration date, must be submitted to DEP at least 180 days prior to the above expiration date (unless permission has been granted by DEP for submission at a later date), using the appropriate NPDES permit application form (40 CFR 122.41(b), 122.21(d)). In the event that a timely and complete application for renewal has been submitted and DEP is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit, including submission of the Annual MS4 Status Reports, will be automatically continued and will remain fully effective and enforceable against the discharger until DEP takes final action on the pending permit application. (25 Pa. Code §§ 92a.7(b), (c))
5. The permittee shall implement Pollutant Control Measures as specified in **Appendices B and C**.
6. The permittee shall achieve pollutant loading reductions for sediment, Total Phosphorus and/or Total Nitrogen as specified in **Appendices D and F** by (**Date - 5 Years from Effective Date of Coverage**).

Date Permit Issued: _____

Issued By: _____

Maria D. Bebenek, P.E.
Clean Water Program Manager
Department of Environmental Protection
Southcentral Regional Office

PART A

EFFLUENT LIMITATIONS, REPORTING AND RECORDKEEPING REQUIREMENTS

I. EFFLUENT LIMITATIONS

- A. This permit establishes effluent limitations in the form of implementation of a Stormwater Management Program (SWMP), as specified in Part C I of this permit, to reduce the discharge of pollutants from the regulated small MS4 to the maximum extent practicable. The permittee shall comply with Minimum Control Measures (MCMs) and best management practices (BMPs) in Part C I of this permit, which constitutes compliance with the standard of reducing pollutants to the maximum extent practicable.
- B. All discharges from regulated small MS4s must comply with all applicable requirements established in accordance with 25 Pa. Code Chapters 91-96, 102, and 105 of DEP's rules and regulations. DEP may, upon written notice, require additional BMPs or other control measures to ensure that the water quality standards of the surface waters receiving stormwater discharges are attained.

II. DEFINITIONS

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures and other management practices to prevent or reduce pollutant loading to surface waters of this Commonwealth. The term includes treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. The term includes activities, facilities, measures, planning or procedures used to minimize accelerated erosion and sedimentation and manage stormwater to protect, maintain, reclaim and restore the quality of waters and the existing and designated uses of waters within this Commonwealth before, during and after earth disturbance activities. (25 Pa. Code § 92a.2)

Clean Water Act (CWA) means the Federal Water Pollution Control Act, as amended, 33 U.S.C.A. §§ 1251 - 1387.

Cleaning Agent means any product, substance or chemical other than water that is used to clean the exterior surface of vehicles.

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

Dry Weather means a condition in which there are no precipitation, snowmelt, drainage or other events producing a stormwater discharge for more than 48 consecutive hours.

Existing Permittee means any entity that has been designated as a regulated small MS4 and has previously obtained permit coverage under the PAG-13 Permit or obtained an Individual NPDES MS4 Permit.

Existing Uses are 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 § 93.1)

Illicit Connection means any physical connection to a municipal separate storm sewer system that can convey illicit discharges into the system and/or is not authorized or permitted by the permittee.

Illicit Discharge means any discharge to a municipal separate storm sewer that is not composed entirely of stormwater, except non-stormwater discharges as described in the "Discharges Authorized by this Permit" section of this Permit. Examples of illicit discharges include dumping of motor vehicle fluids, household hazardous wastes, grass clippings, leaf litter, animal wastes, or unauthorized discharges of sewage, industrial waste, restaurant wastes, or any other non-stormwater waste into a municipal separate storm sewer system. Illicit discharges can be accidental or intentional.

Impaired Waters means surface waters that fail to attain one or more of its designated uses under 25 Pa. Code Chapter 93 and as listed in Categories 4 and 5 of Pennsylvania's Integrated Water Quality Monitoring and Assessment Report.

Integrated Water Quality Monitoring and Assessment Report means the report published every other year by DEP to report on the conditions of Pennsylvania's surface waters to satisfy sections 305(b) and 303(d) of the CWA.

Intermittent Stream means a body of water flowing in a channel or bed composed primarily of substrates associated with flowing water, which, during periods of the year, is below the local water table and obtains its flow from both surface runoff and groundwater discharges. (25 Pa. Code § 92a.2)

Load Allocation means the portion of a surface water's loading capacity that is assigned or allocated to existing and future nonpoint sources and natural quality. (25 Pa. Code § 96.1)

Low Impact Development (LID) means site design approaches and small-scale stormwater management practices that promote the use of natural systems for infiltration, evapotranspiration, and reuse of rainwater. LID can be applied to new development, urban retrofits, and revitalization projects. LID utilizes design techniques that infiltrate, filter, evaporate, and store runoff close to its source. Rather than rely on costly large-scale conveyance and treatment systems, LID addresses stormwater through a variety of small, cost-effective landscape features located on-site.

MS4 Requirements Table is a compilation of information regarding Pennsylvania MS4s, surface waters that receive stormwater discharges from MS4s, surface water impairments and TMDLs that is posted to DEP's website, www.dep.pa.gov/MS4. The MS4 Requirements Table has been assembled by DEP to assist MS4 permittees in determining applicable requirements for the development of plans and implementation of BMPs.

Municipal separate storm sewer means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains): (i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to surface waters; (ii) Designed or used for collecting or conveying stormwater; (iii) Which is not a combined sewer; and (iv) Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2. (25 Pa. Code § 92a.32(a) and 40 CFR § 122.26(b)(8))

Municipal Separate Storm Sewer System (MS4) means all separate storm sewers that are defined as "large" or "medium" or "small" municipal separate storm sewer systems pursuant to 40 CFR §§ 122.26(b)(4), (b)(7), and (b)(16), respectively, or designated under 40 CFR § 122.26(a)(1)(v). (25 Pa. Code § 92a.32(a) and 40 CFR § 122.26(b)(18))

Municipality means a city, town, borough, county, township, school district, institution, authority or other public body created by or pursuant to State law and having jurisdiction over disposal of sewage, industrial wastes or other wastes. (25 Pa. Code § 92a.2)

New Permittee means any entity that has been designated as a regulated small MS4 and has not previously obtained permit coverage under the PAG-13 General Permit or obtained an Individual NPDES MS4 Permit.

Non-Municipal Permittee means a regulated small MS4 that is not a municipality, e.g., military bases, large hospital or prison complexes, and highways and other thoroughfares.

Non-Structural BMPs means actions that involve management and source controls such as: (1) policies and ordinances that provide requirements and standards to direct growth to identified areas, promote redevelopment, protect areas such as wetlands and riparian areas, maintain and/or increase open space, provide buffers along water bodies, minimize impervious surfaces, and minimize disturbance of soils and vegetation; (2) education programs for developers and the public about minimizing water quality impacts; (3) measures such as minimizing the percentage of impervious area after development, use of measures to minimize directly connected impervious areas, street sweeping, and source control measures such as good housekeeping, maintenance, and spill prevention; and other BMPs as referenced in Chapter 5 of the Pennsylvania Stormwater BMP Manual (363-0300-002).

Observation point means a location upstream of an outfall where a permittee must conduct dry weather screening in accordance with Part C I.B.3.d of this permit if the permittee determines that screening at an outfall is infeasible, and the point at which stormwater discharges to storm sewers owned or operated by an adjoining municipality where dry weather screening must be conducted.

Ordinance means a law enacted by the government of a municipality.

Outfall means a point source as defined by 40 CFR § 122.2 at the point where a municipal separate storm sewer discharges to surface waters and does not include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels or other conveyances which connect segments of the same stream or other surface waters and are used to convey surface waters. (25 Pa. Code § 92a.32(a) and 40 CFR § 122.26(b)(9))

Owner or Operator means the owner or operator of any “facility” or “activity” subject to regulation under the NPDES program. (25 Pa. Code § 92a.3(b)(1) and 40 CFR § 122.2)

Permittee means the owner or operator of a regulated small MS4 authorized to discharge under the terms of this permit.

Point Source means a discernible, confined, and discrete conveyance, including, but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, Concentrated Aquatic Animal Production Facility (CAAP), Concentrated Animal Feeding Operation (CAFO), landfill leachate collection system, or vessel or other floating craft from which pollutants are or may be discharged. (25 Pa. Code § 92a.2)

Pollutant means any contaminant or other alteration of the physical, chemical, biological, or radiological integrity of surface water which causes or has the potential to cause pollution as defined in section 1 of the Pennsylvania Clean Streams Law, 35 P.S. § 691.1. (25 Pa. Code § 92a.2)

Qualifying Development or Redevelopment Project means an earth disturbance activity that requires an NPDES permit for stormwater discharges associated with construction activity per 25 Pa. Code Chapter 102.

Regulated Small MS4 means any small MS4 that is covered by the federal Phase II stormwater program, either through automatic nationwide designation under 40 CFR § 122.32(a)(1) (via the Urbanized Area criteria) or by designation on a case-by-case basis by DEP pursuant to 40 CFR § 122.32(a)(2). “Regulated small MS4s” are a subset of “small MS4s” as defined in this section.

Riparian Forest Buffer means an area of permanent vegetation consisting of native trees, shrubs, forbs and grasses along surface water that is maintained in a natural state or sustainably managed to protect and enhance water quality, stabilize stream channels and banks, and buffer land use activities from surface waters.

Small Municipal Separate Storm Sewer System (Small MS4) means an MS4, as defined in this section, that is not a large or medium MS4 pursuant to 40 CFR §§ 122.26(b)(4) and 122.26(b)(7). The term small MS4 includes systems similar to separate storm sewer systems in municipalities, such as systems at military bases, large hospital or prison complexes, and highways and other thoroughfares. The term does not include separate storm sewers in very discrete areas, such as individual buildings. (25 Pa. Code § 92a.32(a) and 40 CFR § 122.26(b)(16))

Standard Operating Procedure (SOP) means a policy or set of procedures that are enacted by a non-municipal

permittee to implement a stormwater management program.

Storm Sewershed means the land area that drains to an individual MS4 outfall from within the jurisdiction of the MS4 permittee. The term “combined storm sewershed” means the drainage areas of all MS4 outfalls that discharge to a specific surface water or to waters within the Chesapeake Bay watershed.

Stormwater means runoff from precipitation, snow melt runoff and surface runoff and drainage. “Stormwater” has the same meaning as “storm water.” (25 Pa. Code § 92a.2)

Structural BMPs means stormwater storage and management practices including, but not limited to, wet ponds and extended detention outlet structures; filtration practices such as grassed swales, sand filters and filter strips; infiltration practices such as infiltration basins and infiltration trenches; and other BMPs as referenced in Chapter 6 of the Pennsylvania Stormwater BMP Manual (363-0300-002).

Surface Waters means perennial and intermittent streams, rivers, lakes, reservoirs, ponds, wetlands, springs, natural seeps and estuaries, excluding water at facilities approved for wastewater treatment such as wastewater treatment impoundments, cooling water ponds and constructed wetlands used as part of a wastewater treatment process. (25 Pa. Code § 92a.2)

Total Maximum Daily Load (TMDL) means the sum of individual waste load allocations for point sources, load allocations for nonpoint sources and natural quality and a margin of safety expressed in terms of mass per time, toxicity or other appropriate measures. (25 Pa. Code § 96.1)

Urbanized Area (UA) means land area comprising one or more places (central place(s)) and the adjacent densely settled surrounding area (urban fringe) that together have a residential population of at least 50,000 and an overall population density of at least 1,000 people per square mile, as defined by the United States Bureau of the Census and as determined by the latest available decennial census. The UA outlines the extent of automatically regulated areas.

Wasteload Allocation (WLA) means the portion of a surface water’s loading capacity that is allocated to existing and future point source discharges. (25 Pa. Code § 96.1)

Water Quality Criteria means numeric concentrations, levels or surface water conditions that need to be maintained or attained to protect existing and designated uses. (25 Pa. Code § 93.1)

Water Quality Standards means the combination of water uses to be protected and the water quality criteria necessary to protect those uses. (25 Pa. Code § 92a.2)

III. MONITORING, REPORTING AND RECORDKEEPING

- A. Where samples are collected and analyzed or measurements are taken under this permit, the permittee shall assure:
1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(j)(1))
 2. Records of monitoring information shall include (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(j)(3)):
 - a. The date, exact place, and time of sampling or measurements.
 - b. The individual(s) who performed the sampling or measurements.
 - c. The date(s) analyses were performed.
 - d. The individual(s) who performed the analyses.
 - e. The analytical techniques or methods used.
 - f. The results of such analysis.

3. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136 unless another method is required under 40 CFR Subchapters N or O. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(j)(4))
- B. Records Retention – All records of monitoring activities and results, copies of all plans and reports required by this Permit, and records of all data used to complete the application for this Permit shall be retained by the permittee for at least 5 years from the date of the sample measurement, report or application. Such records must be submitted to DEP upon request or as required for annual reports. The permittee must make records available to the public at reasonable times during regular business hours. (25 Pa. Code § 92a.3(c), 40 CFR §§ 122.34(g)(2) and 122.41(j)(2))
- C. Proper Operation and Maintenance (O&M) – The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances), including stormwater BMPs, that are installed or used by the permittee to achieve compliance with the conditions of this permit. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(e))
- D. Reporting and Fee Requirements
 1. The permittee shall submit a complete Annual MS4 Status Report using DEP's annual report template (3800-FM-BPNPSM0491) to the DEP regional office that issued Permit coverage approval by September 30 of each year.
 - a. For existing permittees, the first annual report submitted to DEP under this permit shall have a reporting period starting from the end of the latest annual or progress report period (under the previous permit) to June 30, 2019. The first annual report is due by September 30, 2019. For new permittees, the first annual report is due by September 30 following the first year of Permit coverage.
 - b. Following the first annual report, the reporting period shall thereafter be July 1 - June 30, and the report shall be due by September 30.
 2. Permittees shall pay an annual fee of \$500 in accordance with 25 Pa. Code § 92a.62. Annual fees are due on each anniversary of the effective date of the most recent new or reissued permit. Payment for annual fees shall be remitted to DEP at the address below by the anniversary date. Checks should be made payable to the Commonwealth of Pennsylvania.

PA Department of Environmental Protection
Bureau of Clean Water
Re: Chapter 92a Annual Fee
PO Box 8466
Harrisburg, PA 17105-8466
 3. The permittee shall submit the Annual MS4 Status Report and annual fee to DEP electronically upon receipt of written notification from DEP.
 4. Unanticipated Non-Compliance or Potential Pollution Reporting
 - a. Immediate Reporting - The permittee shall immediately report any incident causing or threatening pollution in accordance with the requirements of 25 Pa. Code §§ 91.33 and 92a.41(b) listed below:
 - (i) If, because of an accident, other activity or incident a toxic substance or another substance which would endanger users downstream from the discharge, or would otherwise result in pollution or create a danger of pollution or would damage property, the permittee shall immediately notify DEP by telephone of the location and nature of the danger. Oral notification to the Department is required as soon as possible, but no later than 4 hours after the permittee becomes aware of the incident causing or threatening pollution.

- (ii) If reasonably possible to do so, the permittee shall immediately notify downstream users of the waters of the Commonwealth to which the substance was discharged. Such notice shall include the location and nature of the danger.
 - (iii) The permittee shall immediately take or cause to be taken steps necessary to prevent injury to property and downstream users of the waters from pollution or a danger of pollution and, in addition, within 15 days from the incident, shall remove the residual substances contained thereon or therein from the ground and from the affected waters of this Commonwealth to the extent required by applicable law.
- b. The permittee shall report any non-compliance which may endanger health or the environment in accordance with the requirements of 40 CFR § 122.41(l)(6). These requirements include the following obligations:
- (i) 24 Hour Reporting - The permittee shall orally report any non-compliance with this permit which may endanger health or the environment within 24 hours from the time the permittee becomes aware of the circumstances.
 - (ii) Written Report - A written submission shall also be provided within 5 days of the time the permittee becomes aware of any non-compliance which may endanger health or the environment. The written submission shall contain a description of the non-compliance and its cause; the period of non-compliance, including exact dates and times, and if the non-compliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the non-compliance.
 - (iii) Waiver of Written Report - DEP may waive the written report on a case-by-case basis if the associated oral report has been received within 24 hours from the time the permittee becomes aware of the circumstances which may endanger health or the environment. Unless such a waiver is expressly granted by DEP, the permittee shall submit a written report in accordance with this paragraph. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(l)(6)(iii))

5. Other Non-Compliance

The permittee shall report all instances of non-compliance not reported under paragraph D.4 of this section at the time Annual Reports are submitted, on the Non-Compliance Reporting Form (3800-FM-BPNPSM0440). The reports shall contain the information listed in paragraph D.4.b.(ii) of this section. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(l)(7))

6. Signatory Requirements

- a. Completed Annual Reports and all other reports, applications, and information submitted to DEP shall be signed and certified by either of the following applicable persons, as defined in 25 Pa. Code § 92a.22:
- For a corporation - by a principal executive officer of at least the level of vice president, or an authorized representative, if the representative is responsible for the overall operation of the facility from which the discharge described in the NPDES form originates.
 - For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.
 - For a municipality, state, federal or other public agency - by a principal executive officer or ranking elected official.
- b. If signed by a person other than the above, the person must be a duly authorized representative of the permittee. A person is a duly authorized representative only if:
- The authorization is made in writing by a person described in paragraph a., above, and submitted to DEP.
 - The authorization specifies either an individual or a position having responsibility for the operation of the regulated system, facility or activity, such as the position of manager, operator,

superintendent, or position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or any individual occupying a named position.

- c. Changes in Signatory Authorization - If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the system or facility, a new authorization satisfying the requirements of paragraphs 6.a and 6.b, above, must be submitted to DEP prior to or together with any reports, information or NOI to be signed by an authorized representative.

PART B
STANDARD CONDITIONS

I. MANAGEMENT REQUIREMENTS

A. Compliance

The permittee must comply with all conditions of this Permit. Any permit non-compliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(a))

B. Permit Modification, Termination, or Revocation and Reissuance

1. Permit coverage may be modified, terminated, or revoked and reissued during its term in accordance with Title 25 Pa. Code §§ 92a.72 and 92a.74 and 40 CFR § 122.41(f).
2. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated non-compliance, does not stay any Permit condition. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(f))

C. Duty to Provide Information

1. The permittee shall furnish to DEP, within a reasonable time, any information which DEP may request to determine whether cause exists for modifying, revoking and reissuing, or terminating coverage under this Permit, or to determine compliance with this Permit. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(h))
2. The permittee shall furnish to DEP, upon request, copies of records required to be kept by this Permit. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(h))
3. Other Information - Where the permittee becomes aware that it failed to submit any relevant facts in an NOI, or submitted incorrect information in an NOI or in any report to DEP, it shall promptly submit the correct and complete facts or information. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(l)(8))
4. The permittee shall give advance notice to the DEP office that approved permit coverage of any planned physical alterations or additions to the regulated small MS4. Notice is only required when: 1) the alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR § 122.29(b), or 2) the alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(l))

D. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(d))

E. Termination of Permit Coverage (25 Pa. Code § 92a.74 and 40 CFR 122.64)

1. Notice of Termination (NOT) – If the permittee plans to cease operations or will otherwise no longer require coverage under this permit, the permittee shall submit DEP's NPDES Notice of Termination (NOT) for Permits Issued Under Chapter 92a (3800-BCW-0410), signed in accordance with Part A III.D.6 of this permit, at least 30 days prior to cessation of operations or the date by which coverage is no longer required.
2. Where the permittee plans to cease operations, NOTs must be accompanied with an operation closure plan that identifies how tankage and equipment will be decommissioned and how pollutants will be managed, as applicable.
3. The permittee shall submit the NOT to the DEP regional office with jurisdiction over the county in which the facility is located.

II. PENALTIES AND LIABILITY

A. Violations of Permit Conditions

1. Any person violating Sections 301, 302, 306, 307, 308, 318 or 405 of the CWA or any permit condition or limitation implementing such sections in a permit issued under Section 402 of the Act is subject to civil, administrative and/or criminal penalties as set forth in 40 CFR § 122.41(a)(2).
2. Any person or municipality, who violates any provision of this Permit; any rule, regulation or order of DEP; or any condition or limitation of any permit issued pursuant to the Clean Streams Law, is subject to criminal and/or civil penalties as set forth in Sections 602, 603 and 605 of the Clean Streams Law.

B. Falsifying Information

Any person who does any of the following:

- Falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, or
- Knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit (including monitoring reports or reports of compliance or non-compliance)

Shall, upon conviction, be punished by a fine and/or imprisonment as set forth in 18 Pa.C.S.A. § 4904 and 40 CFR §§ 122.41(j)(5) and (k)(2).

C. Liability

1. Nothing in this Permit shall be construed to relieve the permittee from civil or criminal penalties for non-compliance pursuant to Section 309 of the CWA or Sections 602, 603 or 605 of the Clean Streams Law.
2. Nothing in this Permit shall be construed to preclude the institution of any legal action or to relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject to under the CWA and the Clean Streams Law.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(c))

III. OTHER RESPONSIBILITIES

A. Right of Entry

Pursuant to Section 5(b) of Pennsylvania's Clean Streams Law (35 P.S. § 691.5(b)), 25 Pa. Code Chapter 92a and 40 CFR § 122.41(i), the permittee shall allow authorized representatives of DEP and EPA, upon the presentation of credentials and other documents as may be required by law:

1. To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit; (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(i)(1))
2. To have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit; (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(i)(2))
3. To inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this Permit; and (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(i)(3))
4. To sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or the Clean Streams Law, any substances or parameters at any location. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(i)(4))

B. Transfer of Permits

1. Transfers by modification. Except as provided in paragraph B.2 of this section, permit coverage may be transferred by the permittee to a new owner or operator only if this Permit coverage has been modified or revoked and reissued, or a minor modification made to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.61(a))
2. Automatic transfers. As an alternative to transfers under paragraph 1 of this section, any NPDES permit may be automatically transferred to a new permittee if:
 - a. The current permittee notifies DEP at least 30 days in advance of the proposed transfer date in paragraph 2.b. of this section; (25 Pa. Code § 92a.3(c) and 40 CFR § 122.61(b)(1))
 - b. The notice includes the appropriate DEP transfer form signed by the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between them; (25 Pa. Code § 92a.3(c) and 40 CFR § 122.61(b)(2))
 - c. DEP does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue coverage under this permit, the transfer is effective on the date specified in the agreement mentioned in paragraph 2.b. of this section; and (25 Pa. Code § 92a.3(c) and 40 CFR § 122.61(b)(3))
 - d. The new permittee is in compliance with existing DEP issued permits, regulations, orders and schedules of compliance, or has demonstrated that any non-compliance with the existing permits has been resolved by an appropriate compliance action or by the terms and conditions of the permit (including compliance schedules set forth in the permit), consistent with 25 Pa. Code § 92a.51 (relating to schedules of compliance) and other appropriate DEP regulations. (25 Pa. Code § 92a.71)
3. In the event DEP does not approve transfer of coverage under this permit, the new owner or controller must submit a new NOI.

- C. Property Rights – The approval of coverage under this Permit does not convey any property rights of any sort, or any exclusive privilege. (25 Pa. Code § 92a.3(c) and 40 CFR § 122.41(g))

- D. Duty to Reapply – If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit. (40 CFR 122.41(b))
- E. Severability – The provisions of this permit are severable. If any provision of this permit or the application of any provision of this Permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected.

PART C

SPECIAL CONDITIONS

I. STORMWATER MANAGEMENT PROGRAM (SWMP)

A. The permittee must develop, implement, and enforce an SWMP designed to reduce the discharge of pollutants from the MS4 to the maximum extent practicable, to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act and Pennsylvania Clean Streams Law, as described in paragraph B, below. There are six Minimum Control Measures (MCMs) that comprise the SWMP. Specific BMPs are identified under each MCM. The permittee shall demonstrate compliance with the SWMP through the submission of Annual MS4 Status Reports due by September 30 each year.

B. Minimum Control Measures (MCMs)

1. **MCM #1:** Public Education and Outreach on Stormwater Impacts. (25 Pa. Code § 92a.32(a) and 40 CFR § 122.34(b)(1))

The permittee shall implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of stormwater discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff.

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

- (1) For new permittees, a written Public Education and Outreach Program (PEOP) shall be developed and implemented within one year following issuance of this permit, and shall be re-evaluated each year thereafter and revised as needed.

- (2) For existing permittees, the existing PEOP shall be reviewed annually and revised as necessary.

The permittee's PEOP shall be designed to achieve measurable improvements in the target audience's understanding of the causes and impacts of stormwater pollution and the steps they can take to prevent it.

- b. **BMP #2:** Develop and maintain lists of target audience groups that are present within the areas served by the permittee's regulated small MS4. In most communities, the target audiences shall include residents, businesses (including commercial, industrial and retailers), developers, schools, and municipal employees.

- (1) For new permittees, the lists shall be developed within one year following issuance of this permit, and reviewed and updated as necessary every year thereafter.

- (2) For existing permittees, the lists shall continue to be reviewed and updated annually.

- c. **BMP #3:** The permittee shall annually publish at least one issue of a newsletter, a pamphlet, a flyer, or a website that includes general stormwater educational information, a description of the permittee's SWMP, and/or information about the permittee's stormwater management activities. The list of publications and the content of the publications must be reviewed and updated at least once during each year of permit coverage. Publications should include a list of references (or links) to refer the reader to additional information (e.g., DEP and EPA stormwater websites, and any other sources that will be helpful to readers). The permittee must implement at least one of the following alternatives:

- Publish and distribute in printed form a newsletter, a pamphlet or a flyer containing information consistent with this BMP.

- Publish educational and informational items including links to DEP's and EPA's stormwater websites on the permittee's website.
- (1) For new permittees, stormwater educational and informational items shall be produced and published in print and/or on the Internet no later than one year following issuance of this permit.
- (2) In subsequent years, and for existing permittees, the list of items published and the content in these items shall be reviewed, updated, and maintained annually.

The permittee's publications shall contain stormwater educational information that addresses one or more of the six MCMs.

- d. **BMP #4:** Distribute stormwater educational materials and/or information to the target audiences using a variety of distribution methods, including but not limited to: displays, posters, signs, pamphlets, booklets, brochures, radio, local cable TV, newspaper articles, other advertisements (e.g., at bus and train stops/stations), bill stuffers, presentations, conferences, meetings, fact sheets, giveaways, and storm drain stenciling.

All permittees shall select and utilize at least two distribution methods annually. These are in addition to BMP #3, above.

2. **MCM #2:** Public Involvement / Participation. (25 Pa. Code § 92a.32(a) and 40 CFR § 122.34(b)(2))

The permittee shall comply with applicable state and local public notice requirements when implementing a public involvement / participation program.

- a. **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.

The PIPP for new permittees shall be developed and implemented within one year following issuance of this permit. All permittees shall reevaluate the PIPP annually and make revisions as necessary.

The PIPP shall include, at a minimum:

- (1) Opportunities for the public to participate in the decision-making processes associated with the development, implementation, and update of programs and activities related to this permit.
- (2) Methods of routine communication to groups such as watershed associations, environmental advisory committees, and other environmental organizations that operate within proximity to the permittee's regulated small MS4s or surface waters receiving the permittee's discharges.
- (3) Making Annual MS4 Status Reports and all other plans, programs, maps and reports required by this permit available to the public on the permittee's website, at the permittee's office(s), or by mail upon request.

- b. **BMP #2:** The permittee shall advertise to the public and solicit public input on the following documents prior to adoption or submission to DEP:

- Stormwater Management Ordinances (for municipalities);
- Standard Operating Procedures (SOPs) (for non-municipal entities); and
- Pollutant Reduction Plans (PRPs) and TMDL Plans, including modifications thereto.

- (1) For Ordinances and SOPs, the permittee shall provide notice to the public; provide opportunities for public comment; document and evaluate the public comments; and document the permittee's

responses to the comments prior to finalizing the documents. The permittee shall provide this documentation to DEP upon request.

- (2) For PRPs and TMDL Plans, public participation requirements are specified in Appendices D, E and F of this Permit.
- c. **BMP #3:** Regularly solicit public involvement and participation from the target audience groups using available distribution and outreach methods. This shall include an effort to solicit public reporting of suspected illicit discharges. Assist the public in their efforts to help implement the SWMP.
- (1) The permittee shall solicit public involvement and participation from target audience groups on the implementation of the SWMP. The solicitation can take the form of public meetings or other events. The public shall be given notice in advance of each meeting or event. During the meetings or events, the permittee should present a summary of progress, activities, and accomplishments with implementation of the SWMP, and the permittee should provide opportunities for the public to provide feedback and input. The presentation can be made at specific MS4 events or during any other public meeting. Existing permittees shall conduct at least one public meeting that includes information on SWMP implementation by March 15, 2023; new permittees shall conduct at least one public meeting within 5 years following issuance of this permit.
 - (2) The permittee shall document and report instances of cooperation and participation in MS4 activities; presentations the permittee made to local watershed organizations and conservation organizations; and similar instances of participation or coordination with organizations in the community.
 - (3) The permittee shall also document and 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 organized implementation efforts such as cleanups, monitoring, storm drain stenciling, or others.
3. **MCM #3:** Illicit Discharge Detection and Elimination (IDD&E). (25 Pa. Code § 92a.32(a) and 40 CFR § 122.34(b)(3))

The permittee shall develop, implement and enforce a program to detect and eliminate illicit discharges into the permittee's regulated small MS4.

- a. **BMP #1:** The permittee shall develop and implement a written program for the detection, elimination, and prevention of illicit discharges into the regulated small MS4. The program shall include the following:
- Procedures for identifying priority areas. These are areas with a higher likelihood of illicit discharges, illicit connections or illegal dumping. Priority areas may include areas with older infrastructure, a concentration of high-risk activities, or past history of water pollution problems.
 - Procedures for screening outfalls in priority areas. The program shall include dry weather field screening of outfalls for non-stormwater flows, and sampling of dry weather discharges for selected chemical and biological parameters. Test results shall be used as indicators of possible discharge sources.
 - Procedures for identifying the source of an illicit discharge when a contaminated flow is detected at a regulated small MS4 outfall.
 - Procedures for eliminating an illicit discharge.

- 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.
 - Mechanisms for gaining access to private property to inspect outfalls (e.g., land easements, consent agreements, search warrants) and for investigating illicit connections and discharges.
 - Procedures for program documentation, evaluation and assessment. Records shall be kept of all outfall inspections, flows observed, results of field screening and testing, and other follow-up investigation and corrective action work performed under this program.
 - Procedures for addressing information or complaints received from the public.
- (1) For new permittees, the IDD&E program shall be developed during the first year following issuance of this permit and shall be implemented and evaluated each year thereafter.
 - (2) For existing permittees, the IDD&E program shall continue to be implemented and evaluated annually.
- b. **BMP #2:** The permittee shall 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) For new permittees, the map(s) must be developed and submitted to DEP as an attachment to an Annual MS4 Status Report by September 30, 2022 or the fourth (4th) Annual MS4 Status Report following issuance of this permit, whichever is later.
 - (2) For existing permittees, the existing map(s) shall be updated and maintained as necessary during each year of coverage under this permit.
- c. **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) For new permittees, the map(s) must be developed and submitted to DEP as an attachment to an Annual MS4 Status Report by September 30, 2022 or the fourth (4th) Annual MS4 Status Report following issuance of this permit, whichever is later.
 - (2) For existing permittees, the existing map(s) shall be updated and maintained as necessary during each year of coverage under this permit.
- d. **BMP #4:** The permittee shall conduct dry weather screenings of its MS4 outfalls and observation points 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, in accordance with Part A III.D.4 of this permit. An observation point must be established by the permittee at a location upstream of any discharge of stormwater into storm sewers owned or operated by an adjoining municipality.

- (1) For new permittees, all of the identified regulated small MS4 outfalls shall be screened during dry weather at least twice within the 5-year period following issuance of this permit.
- (2) For existing permittees, each of the identified regulated small MS4 outfalls shall be screened during dry weather at least once by March 15, 2023. For areas where past problems have been reported or known sources of dry weather flows occur on a continual basis, outfalls shall be screened annually during each year of permit coverage.
- (3) If a discharge is observed from any outfall during dry weather screenings, the discharge shall be inspected for color, odor, floating solids, scum, sheen, and substances that result in observed deposits in the surface waters. In addition, the discharge cannot contain substances that result in deposits in the receiving water or produce an observable change in the color, odor or turbidity of the receiving water.

If the discharge exhibits any of the above characteristics, or contains any other pollutants or causes an observed change in the surface waters, the permittee shall sample the discharge(s) for field and/or laboratory analysis of one or more common IDD&E parameters in order to determine if the dry weather flow is illicit. Possible parameters include, but are not limited to: pH, Conductivity, Fecal Coliform bacteria, Heavy Metals, Chemical Oxygen Demand (COD), 5-day Biochemical Oxygen Demand (BOD5), Total Suspended Solids (TSS), Total Dissolved Solids (TDS), Oil and Grease, Total Residual Chlorine (TRC) and Ammonia-Nitrogen. Proper quality assurance and quality control procedures shall be followed when collecting, transporting or analyzing water samples. The permittee shall retain sample results with the inspection report in accordance with Part A III.B of this permit.

- (4) Each time an outfall is screened, the permittee shall record outfall observations, regardless of the presence of dry weather flow. All outfall inspections shall be documented on the MS4 Outfall Field Screening Report form (3800-FM-BCW0521), or equivalent. The report must be signed by the inspector and be maintained by the permittee in accordance with Part A III.B of this permit. If an outfall flow is determined by the permittee to be illicit, the actions taken to identify and eliminate the illicit flow shall also be documented.
 - (5) The permittee shall summarize the results of outfall inspections and actions taken to remove or correct illicit discharges in Annual MS4 Status Reports.
 - (6) If the permittee determines that an outfall cannot be accessed due to safety or other reasons, the permittee shall establish an "observation point" at an appropriate location prior to the outfall where outfall field screening shall be performed. If observation points are established by the permittee, such points shall be identified on the map required under BMP #2 of this section.
 - (7) Permittees must ensure that outfalls are properly maintained in accordance with Part C I.B.6.b of this Permit.
- e. **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) Municipal permittees shall submit a copy of an ordinance that is consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j) as an attachment to an Annual MS4 Status Report by September 30, 2022 (existing permittees) or the fourth (4th) Annual MS4 Status Report following approval of coverage under this Permit (new permittees).
 - (2) Permittees that lack the authority to enact ordinances (non-municipal permittees and counties) shall develop and adopt an SOP that prohibits non-stormwater discharges consistent with this Permit, and shall submit a copy of the SOP as an attachment to an Annual MS4 Status Report by September 30, 2022 (existing permittees) or the fourth (4th) Annual MS4 Status Report following approval of coverage under this Permit (new permittees).

- (3) Notice must be 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. This notice shall be submitted in the next Annual MS4 Status Report following approval of the waiver or variance.
- f. **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) During each year of permit coverage, appropriate educational information concerning illicit discharges shall be distributed to the target audiences using methods outlined under MCM #1. The permittee shall establish and promote a stormwater pollution reporting mechanism (e.g., a complaint line with message recording) by the end of the first year of Permit coverage for the public to use to notify the permittee of illicit discharges, illegal dumping or outfall pollution. The permittee shall respond to all complaints in a timely and appropriate manner. The permittee shall document all responses, including the action taken, the time required to take the action, and whether the complaint was resolved successfully.
 - (2) Educational outreach may include: distribution of brochures and guidance for target audiences including schools; programs to encourage and facilitate public reporting of illicit discharges; organizing volunteers to locate and visually inspect outfalls and to stencil storm drains; and implement and encourage recycling programs for common wastes such as motor oil, antifreeze and pesticides.
4. **MCM #4:** Construction Site Stormwater Runoff Control. (25 Pa. Code § 92a.32(a) and 40 CFR § 122.34(b)(4))

The permittee shall implement the BMPs identified below.

- a. **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.
- b. **BMP #2:** A municipality or county which issues building or other permits shall 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.
- c. **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) Municipal permittees shall enact, implement, and enforce an ordinance to require the implementation of E&S control BMPs, including sanctions for non-compliance. All municipal permittees shall submit a copy of an ordinance that is consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j) as an attachment to an Annual MS4 Status Report by September 30, 2022 (existing permittees) or the fourth (4th) Annual MS4 Status Report following issuance of this permit (new permittees).
 - (2) Permittees that lack the authority to enact ordinances shall develop, implement and enforce an SOP to require the implementation and maintenance of E&S control BMPs by September 30, 2022 (existing permittees) or the first Annual MS4 Status Report following approval of coverage under this Permit (new permittees).

5. **MCM #5:** Post-Construction Stormwater Management (PCSM) in New Development and Redevelopment. (25 Pa. Code § 92a.32(a) and 40 CFR § 122.34(b)(5))

The permittee shall implement the BMPs identified below.

- a. **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) Municipal permittees shall enact, implement, and enforce an ordinance to require the implementation of PCSM BMPs, including sanctions for non-compliance. All municipal permittees shall submit a copy of an ordinance that is consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j) as an attachment to an Annual MS4 Status Report by September 30, 2022 (existing permittees) or the fourth (4th) Annual MS4 Status Report following issuance of this permit (new permittees).
 - (2) Permittees that lack the authority to enact ordinances shall develop, implement and enforce an SOP to require the implementation and maintenance of PCSM BMPs and submit the SOP to DEP by September 30, 2022 (existing permittees) or the fourth (4th) Annual MS4 Status Report following issuance of this permit (new permittees).
- b. **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. Guidance on implementing LID practices may be found on DEP's MS4 website, www.dep.pa.gov/MS4. Enact ordinances consistent with LID practices and repeal sections of ordinances that conflict with LID practices. Submission of an ordinance that is consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j) will satisfy this BMP.
- c. **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.

An inventory of PCSM BMPs shall be developed by new permittees by the end of the first year of Permit coverage and shall be continually updated during the term of coverage under the Permit as development projects are reviewed, approved, and constructed. Existing permittees shall update and maintain its current inventory during the term of coverage under the Permit. The permittee must track the following information in its PCSM BMP inventory:

- All PCSM BMPs that were installed to meet requirements in NPDES Permits for Stormwater Discharges Associated with Construction Activities approved since March 10, 2003.
- The exact location of the PCSM BMP (e.g., latitude and longitude, with street address).
- Information (e.g., name, address, phone number(s)) for BMP owners and entities responsible for BMP O&M, if different from BMP owners.
- The type of BMP and the year it was installed.
- Maintenance required for the BMP type according to the Pennsylvania Stormwater BMP Manual or other manuals and resources.
- The actual inspection/maintenance activities conducted for each BMP.
- 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.

6. **MCM #6:** Pollution Prevention / Good Housekeeping. (25 Pa. Code § 92a.32(a) and 40 CFR § 122.34(b)(6))

The permittee must develop and implement an O&M program that includes a training component and has the ultimate goal of preventing and reducing pollutant runoff from operations, facilities and activities under the control of the permittee (collectively, "operations"). The program must include employee training to prevent and reduce stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance.

- a. **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 regulated small MS4. This includes activities conducted by contractors for the permittee. Activities may include the following: street sweeping; snow removal/deicing; inlet/outfall cleaning; lawn/grounds care; general storm sewer system inspections and maintenance/repairs; park and open space maintenance; municipal building maintenance; new construction and land disturbances; right-of-way maintenance; vehicle operation, fueling, washing and maintenance; and material transfer operations, including leaf/yard debris pickup and disposal procedures. Facilities can include streets; roads; highways; parking lots and other large paved surfaces; maintenance and storage yards; waste transfer stations; parks; fleet or maintenance shops; wastewater treatment plants; stormwater conveyances (open and closed pipe); riparian buffers; and stormwater storage or treatment units (e.g., basins, infiltration/filtering structures, constructed wetlands, etc.).

(1) New permittees shall create an inventory of all operations and land uses that may contribute to pollution in stormwater runoff within areas of operations that discharge to the regulated small MS4 by the end of the first year of permit coverage, and review and update the inventory annually thereafter.

(2) All permittees must review and update the inventory each year of permit coverage, as necessary.

- b. **BMP #2:** Develop, implement and maintain a written O&M program for all operations that could contribute to the discharge of pollutants from the regulated small MS4, as identified under BMP #1. This program shall address stormwater collection or conveyance systems within the regulated MS4. The written O&M program shall stress pollution prevention and good housekeeping measures, contain site-specific information, and include the following:

- Management practices, policies, and procedures shall be developed and implemented to reduce or prevent the discharge of pollutants to the regulated small MS4s. The permittee shall consider eliminating maintenance area discharges from floor drains and other drains if they have the potential to discharge to storm sewers.
- Maintenance activities, maintenance schedules, and inspection procedures to reduce the potential for pollutants to reach the regulated small MS4s.
- 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. Controls for solid chemical products stored and utilized for the principal purpose of deicing roadways for public safety must be consistent with the BMPs for existing salt storage and distribution sites contained in the PAG-03 NPDES Permit for Stormwater Discharges Associated with Industrial Activity.
- Procedures for the proper disposal of waste, including dredge spoil, accumulated sediments, trash, household hazardous waste, used motor oil, street sweepings, and other debris.

(1) New permittees shall develop and implement a written O&M program by the end of the first year of permit coverage and review and update the program each year thereafter.

- (2) All permittees must review and update the written O&M program each year of permit coverage, as necessary.
- c. **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. The program may be developed and implemented using guidance and training materials that are available from federal, state or local agencies, or other organizations. All relevant employees and contractors shall receive training (i.e., public works staff, building, zoning, and code enforcement staff, engineering staff, police and fire responders, etc.). Training topics shall include operation, inspection, maintenance and repair activities associated with any of the operations identified under BMP #1. Training must cover all relevant parts of the permittee's overall stormwater management program that could affect operations, such as illicit discharge detection and elimination, construction sites, and ordinance requirements.
 - (1) New permittees shall develop and implement a training program that identifies the training topics that will be covered and what training methods and materials will be used by the end of the first year of permit coverage.
 - (2) All permittees must review and update the training program each year of permit coverage, as necessary.
 - (3) Employee training shall occur at least annually and shall be documented in writing and reported in Annual MS4 Status Reports. Documentation shall include the date(s) of the training, the names of attendees, the topics covered, and the training presenter(s).

II. POLLUTANT CONTROL MEASURES AND POLLUTANT REDUCTION PLANS

Permittees with coverage under this permit that discharge to impaired waters are required to implement Pollutant Control Measures (PCMs) and Pollutant Reduction Plans (PRPs), as applicable. Permittees are encouraged to consult DEP's MS4 Requirements Table, available at www.dep.pa.gov/MS4, to determine the applicability of PCMs under Appendices A, B, and C and PRPs under Appendices D and E of this Permit.

- A. PCMs are activities undertaken by the MS4 permittee to identify and control pollutant loading to impaired waters from MS4s, regardless of whether a TMDL has been approved. PCMs are BMPs and other strategies that are in addition to the permittee's SWMP identified in Part C I of this Permit. PCMs must be implemented where the permittee 1) has at least one stormwater outfall that discharges to impaired waters, and 2) the "cause of impairment" is one or more of the causes listed in paragraphs A.1 through A.3, below.
 1. Where surface waters are impaired for metals (e.g., Iron, Manganese and Aluminum) and/or pH associated with Abandoned Mine Drainage (AMD), the permittee shall implement the PCMs identified in **Appendix A** of this permit, in accordance with the schedule therein.
 2. Where surface waters are impaired for Pathogens (e.g., Fecal Coliform), the permittee shall implement the PCMs identified in **Appendix B** of this permit, in accordance with the schedule therein.
 3. Where surface waters are impaired for Priority Organic Compounds (e.g., Polychlorinated Biphenyls (PCBs), pesticides, or other organic compounds), the permittee shall implement the PCMs identified in **Appendix C** of this permit, in accordance with the schedule therein.
- B. A PRP is a planning document prepared by the permittee which guides the selection and implementation of specific BMPs to reduce pollutant loading to surface waters. The objective of a PRP is to improve the condition of surface waters such that the waters eventually attain water quality standards and its designated and existing uses in accordance with 25 Pa. Code Chapter 93. A PRP shall be developed and submitted to DEP with the application if one or more of the following criteria are met:

1. At the time of the application submission, the permittee has at least one MS4 outfall that discharges to surface waters within the Chesapeake Bay watershed, or otherwise has at least one discharge to storm sewers owned or operated by a different entity within the Chesapeake Bay watershed. Where these conditions apply, upon DEP's issuance of this permit, the permittee shall implement the PRP in accordance with **Appendix D** of this permit.
2. At the time of the application submission, the permittee has at least one stormwater outfall that discharges to waters impaired for nutrients (i.e., nitrogen and/or phosphorus) and/or sediment (i.e., siltation), and a TMDL has not been approved for such waters, or a TMDL has been approved but no wasteload allocation (WLA) has been assigned by the TMDL for the permittee's discharge(s). Where these conditions apply, upon DEP's issuance of this permit, the permittee shall implement the PRP in accordance with **Appendix E** of this permit.

III. TMDL PLANS

A TMDL Plan is a planning document prepared by the permittee which guides the selection and implementation of specific BMPs to reduce pollutant loading to surface waters and comply with the TMDL. A TMDL Plan shall be developed and submitted to DEP with the individual permit application if all of the following criteria are met: 1) the permittee has at least one MS4 outfall that discharges to surface waters with an EPA-approved TMDL; 2) the permittee has been identified in the TMDL as having a wasteload allocation (WLA) for one or more pollutants, where the WLA may be specific (individual) to the permittee or may be presented as an aggregate (bulk) requirement for all MS4s within a watershed; and 3) the WLA(s) are for sediment and/or nutrients (i.e., Total Nitrogen and/or Total Phosphorus). Where these conditions apply, upon DEP's issuance of this permit, the permittee shall implement the TMDL Plan in accordance with **Appendix F** of this permit.

IV. OTHER REQUIREMENTS

- A. Screenings and other solids collected by the permittee shall be handled, recycled and/or disposed of in compliance with the Solid Waste Management Act (35 P.S. §§ 6018.101 – 6018.1003), 25 Pa. Code Chapters 287, 288, 289, 291, 295, 297, and 299 (relating to requirements for landfilling, impoundments, land application, composting, processing, and storage of residual waste), federal regulation 40 CFR Part 257, The Clean Streams Law, and the Federal Clean Water Act and its amendments.
- B. DEP may require monitoring of stormwater discharge(s) as may be reasonably necessary in order to characterize the nature, volume or other attributes of that discharge or its sources.
- C. The permittee shall ensure that its SWMP, including its Stormwater Management Ordinance(s) or SOPs, is designed to prevent increased loadings of pollutants and to not cause or contribute to a violation of water quality standards by any discharge from its regulated small MS4.
- D. The permittee shall develop and maintain adequate legal authorities, where applicable, and shall maintain adequate funding and staffing to implement this Permit, including the SWMP contained in Part C I of this Permit.

- E. In accordance with 40 CFR § 122.35, the permittee may rely on another entity to satisfy NPDES permit obligations to implement a minimum control measure if: (1) the other entity, in fact, implements the control measure; (2) the particular control measure, or component thereof, is at least as stringent as the corresponding NPDES permit requirement; and (3) the other entity agrees to implement the control measure on the permittee's behalf. The permittee must specify in Annual MS4 Status Reports that it is relying on another entity to satisfy some of its NPDES permit obligations. The permittee remains responsible for compliance with permit obligations if the other entity fails to implement the control measure (or component thereof).
- F. This permit authorizes the discharge of stormwater to surface waters from the permittee's regulated small MS4. In addition, the following non-stormwater discharges are authorized by this permit as long as such discharges do not cause or contribute to pollution as defined in Pennsylvania's Clean Streams Law:
1. Discharges or flows from firefighting activities.
 2. Discharges from potable water sources including water line flushing and fire hydrant flushing, if such discharges do not contain detectable concentrations of Total Residual Chlorine (TRC).
 3. Non-contaminated irrigation water, water from lawn maintenance, landscape drainage and flows from riparian habitats and wetlands.
 4. Diverted stream flows and springs.
 5. Non-contaminated pumped ground water and water from foundation and footing drains and crawl space pumps.
 6. Non-contaminated HVAC condensation and water from geothermal systems.
 7. Residential (i.e., not commercial) vehicle wash water where cleaning agents are not utilized.
 8. Non-contaminated hydrostatic test water discharges, if such discharges do not contain detectable concentrations of TRC.
- G. In the event existing outfall(s) are identified during the permit term that were not identified on maps submitted as part of the application (where required), the permittee shall identify the outfall(s) in the subsequent Annual MS4 Status Report that is submitted to the DEP office that approved permit coverage. In the event new stormwater outfalls are proposed, the permittee shall submit written notification to the DEP office that issued the permit at least 60 days prior to commencing a discharge.

APPENDIX B

POLLUTANT CONTROL MEASURES FOR WATERS IMPAIRED BY PATHOGENS

The permittee shall implement the following Pollutant Control Measures (PCMs) within the storm sewershed of any outfall that discharges to waters impaired due to Pathogens (e.g., Fecal Coliform), regardless of whether there is an approved TMDL:

- A. Map and Inventory.
 1. The permittee shall develop map(s) of the storm sewershed(s) associated with all outfalls that discharge to surface waters subject to Appendix B. The purpose is to identify the area the permittee is responsible for within its legal boundaries in developing a source inventory. The map(s) shall be submitted to DEP with an Annual MS4 Status Report that is due no later than **September 30, 2022**.
 2. The permittee shall develop an inventory of all suspected and known sources of bacteria in stormwater within the storm sewershed, at a minimum, that discharge to impaired waters. The inventory must identify whether the source is suspected or known, the basis for this determination, the responsible party (if known), and any corrective action the permittee has taken or plans to take for any of these sources. The inventory shall be submitted to DEP with an Annual MS4 Status Report is due no later than **September 30, 2023**.
- B. The permittee shall complete an investigation of each suspected source. This investigation must include stormwater sampling if the investigation is required as part of implementing the IDD&E program under MCM #3 of the permit, and otherwise is voluntary. The results of the investigation shall be submitted to DEP with an Annual MS4 Status Report that is due no later than **September 30, 2025**.
- C. The permittee shall enforce ordinances that prohibit illicit and illegal connections and discharges of sewage to the MS4. Anytime an illicit and illegal connection or discharge of sewage into the MS4 is discovered by the permittee, the permittee shall report the finding in the subsequent Annual MS4 Status Report along with a description of corrective action by the permittee.
- D. If not already established in its Stormwater Management Ordinance (municipal permittees) or SOP (non-municipal permittees), the permittee shall enact an ordinance or develop and adopt an SOP that requires proper management of animal wastes on property owned by the permittee. If an ordinance or SOP already exists that controls animal wastes, it must be attached to the first Annual MS4 Status Report due no later than **September 30, 2021**. If a new ordinance or SOP is enacted or adopted, the new ordinance or SOP must be attached to the first Annual MS4 Status Report due no later than **September 30, 2024**.
- E. The permittee shall document the progress of its investigations, source control efforts and BMPs to control sources of pathogens in its Annual MS4 Status Reports.

APPENDIX C

POLLUTANT CONTROL MEASURES FOR WATERS IMPAIRED BY PRIORITY ORGANIC COMPOUNDS

The permittee shall implement the following Pollutant Control Measures (PCMs) within the storm sewershed of any outfall that discharges to waters impaired due to Priority Organic Compounds, including but not limited to Polychlorinated Biphenyls (PCBs), Pesticides, and any other organic compound listed at 40 CFR Part 423, Appendix A, regardless of whether there is an approved TMDL:

A. Map and Inventory.

1. The permittee shall develop map(s) of the storm sewershed(s) associated with all outfalls that discharge to surface waters subject to Appendix C. The purpose is to identify the area the permittee is responsible for within its legal boundaries in developing a source inventory. The map(s) shall be submitted to DEP with an Annual MS4 Status Report that is due no later than **September 30, 2022**.
2. The permittee shall develop an inventory of all suspected and known anthropogenic (caused or produced by humans) sources of Priority Organic Compounds in stormwater within the drainage area of outfalls discharging to impaired waters. The inventory must identify whether the source is suspected or known, the basis for this determination, the responsible party (if known), and any corrective action the permittee has taken or plans to take for any of these sources. The inventory shall be submitted to DEP with an Annual MS4 Status Report that is due no later than **September 30, 2023**.

B. The permittee shall complete an investigation of each suspected source. This investigation must include stormwater sampling if the investigation is required as part of implementing the IDD&E program under MCM #3 of the Permit, and otherwise is voluntary. The results of the investigation shall be submitted to DEP with an Annual MS4 Status Report that is due no later than **September 30, 2025**.

C. Where it is determined that sources of Priority Organic Compounds are being discharged in stormwater from industrial sites into the permittee's MS4, the permittee shall notify DEP in writing within 90 days of the permittee's findings. DEP may require the owner or operator of the industrial site to submit an application for NPDES permit coverage and/or implement BMPs to reduce pollutant loadings. This written notification is required only once per industrial site.

D. The permittee shall document the progress of its investigations, source control efforts and BMPs to control sources of Priority Organic Compounds in its Annual MS4 Status Reports.

APPENDIX D

POLLUTANT REDUCTION PLAN REQUIREMENTS FOR DISCHARGES TO THE CHESAPEAKE BAY WATERSHED

MS4 permittees with at least one stormwater discharge to surface waters within the Chesapeake Bay watershed must develop and submit a Chesapeake Bay Pollutant Reduction Plan (CBPRP) with the application to reduce the load of nutrients (nitrogen and phosphorus) and sediment discharged to surface waters. In the event the permittee also has at least one stormwater discharge to local surface waters that are considered impaired for nutrients and/or sediment, the CBPRP may be combined with the PRP for localized nutrient and/or sediment impairment as described in Appendix E.

The CBPRP is approved upon DEP's issuance of this permit, subject to any conditions identified elsewhere in this permit or in permit correspondence. The permittee shall implement its approved CBPRP and comply with the following:

- A. The permittee shall achieve a sediment load reduction (lbs/year) of 10%, compared to existing loading, by (**Enter Permit Expiration Date**). Pollutant reduction efficiencies for selected BMPs shall be in accordance with the BMP Effectiveness Values document published by DEP (3800-PM-BCW0100m) or Chesapeake Bay Program Office expert panel reports. The permittee shall submit a report demonstrating implementation of the CBPRP as an attachment to the first Annual MS4 Status Report that is due following the expiration date of this permit.
- B. The BMPs proposed in the CBPRP for the term of permit coverage shall be implemented in accordance with the schedule in the CBPRP. In the event the permittee decides to modify the location, type or number of proposed BMPs, modify the storm sewershed map, or modify the schedule by more than 180 days, the permittee shall submit an update to its CBPRP to DEP prior to implementing the changes. The modified CBPRP may be implemented upon submission to DEP unless DEP issues an objection in writing within 60 days.
- C. Where submission of a modified CBPRP to DEP is required, the permittee shall solicit public involvement and participation, as follows:
 1. The permittee shall make a complete copy of the CBPRP available for public review.
 2. The permittee shall publish, in a newspaper of general circulation in the area, a public notice containing a statement describing the plan, where it may be reviewed by the public, and the length of time the permittee will provide for the receipt of comments. The public notice must be published at least 45 days prior to the deadline for submission of the PRP to DEP.
 3. The permittee shall accept written comments for a minimum of 30 days from the date of public notice.
 4. The permittee shall accept comments from any interested member of the public at a public meeting or hearing, which may include a regularly scheduled meeting of the governing body of the municipality or municipal authority that is the permittee.
 5. The permittee shall consider and make a record of the consideration of each timely comment received from the public during the public comment period concerning the plan, identifying any changes made to the plan in response to the comment.

Modified CBPRPs submitted to DEP must include a copy of the newspaper notice, a copy of all written comments received from the public and a copy of the permittee's record of consideration of all timely comments received in the public comment period.

- D. Progress with achieving the required pollutant load reductions shall be reported in each Annual MS4 Status Report.

APPENDIX F

TMDL PLAN REQUIREMENTS FOR DISCHARGES TO WATERS IMPAIRED FOR NUTRIENTS AND/OR SEDIMENT

MS4 permittees with at least one stormwater discharge to surface waters with an EPA-approved TMDL where the cause of impairment is nutrients and/or sediment, and where the permittee has been assigned a wasteload allocation (WLA) (either individual/specific or aggregate/bulk) in the TMDL, must develop and submit a TMDL Plan with the application to reduce the pollutant loads to those waters.

The TMDL Plan is approved upon DEP's issuance of this permit, subject to any conditions identified elsewhere in this permit or in permit correspondence. The permittee shall implement its approved TMDL Plan and comply with the following:

- A. The permittee shall achieve pollutant load reduction(s) (lbs/year) to meet at least one of the following objectives, by (**Enter Permit Expiration Date**):
1. WLA(s) for pollutant(s) of concern established in the TMDL for the permittee or, in the case of aggregate/bulk WLAs, the portion of the WLA that applies to the permittee as calculated by the permittee in its TMDL Plan and approved by DEP.
 2. A reduction of 10% or 5% of the permittee's existing sediment or TP load, respectively, as calculated by the permittee in its TMDL Plan and approved by DEP.

Pollutant reduction efficiencies for selected BMPs shall be in accordance with the BMP Effectiveness Values document published by DEP (3800-PM-BCW0100m) or Chesapeake Bay Program Office expert panel reports. The permittee shall submit a report demonstrating that one or both of the objectives have been achieved as an attachment to the first Annual MS4 Status Report that is due following the expiration date of this permit.

- B. The BMPs proposed in the TMDL Plan for the term of permit coverage shall be implemented in accordance with the schedule in the TMDL Plan. In the event the permittee decides to modify the location, type or number of proposed BMPs, modify the storm sewershed map, or modify the schedule by more than 180 days, the permittee shall submit an update to its TMDL Plan to DEP prior to implementing the changes. The modified TMDL Plan may be implemented upon submission to DEP unless DEP issues an objection in writing within 60 days.
- C. Where submission of a modified TMDL Plan to DEP is required, the permittee shall solicit public involvement and participation, as follows:
1. The permittee shall make a complete copy of the PRP available for public review.
 2. The permittee shall publish, in a newspaper of general circulation in the area, a public notice containing a statement describing the plan, where it may be reviewed by the public, and the length of time the permittee will provide for the receipt of comments. The public notice must be published at least 45 days prior to the deadline for submission of the PRP to DEP.
 3. The permittee shall accept written comments for a minimum of 30 days from the date of public notice.
 4. The permittee shall accept comments from any interested member of the public at a public meeting or hearing, which may include a regularly scheduled meeting of the governing body of the municipality or municipal authority that is the permittee.
 5. The permittee shall consider and make a record of the consideration of each timely comment received from the public during the public comment period concerning the plan, identifying any changes made to the plan in response to the comment.

Modified TMDL Plans submitted to DEP must include a copy of the newspaper notice, a copy of all written comments received from the public and a copy of the permittee's record of consideration of all timely comments received in the public comment period.

Progress with achieving the required pollutant load reductions shall be reported in each Annual MS4 Status Report.

EFFECTIVE DATE: _____
(PennDOT shall insert)

AGREEMENT NO.: 43101149
FEDERAL I.D. NO.: 23-6632234 (CRW)

CONTRIBUTION AGREEMENT

This Contribution Agreement (Agreement) is made by and between the Commonwealth of Pennsylvania (Commonwealth), acting through the Department of Transportation (PennDOT),

and

Capital Region Water (CRW), an authority formed under the laws of the Commonwealth.

BACKGROUND

PennDOT and CRW are partnering to reduce sediment pollution in the Paxton Creek Watershed as part of the pollutant reduction plan obligations in the National Pollutant Discharge Elimination System permits for their respective municipal separate storm sewer systems.

PennDOT will issue and award an invitation for bids (IFB) to construct a project in Dauphin County within the Watershed to reduce sediment pollution. PennDOT will contribute one million dollars (\$1,000,000) toward the Project. CRW will contribute an additional one million dollars (\$1,000,000) toward the Project.

CRW is participating in this project, and making its contribution, as part of an intergovernmental cooperation agreement that it has entered with Susquehanna Township and Lower Paxton Township for the preparation and implementation of a joint pollution reduction plan. A copy of the intergovernmental cooperation agreement is attached hereto as Exhibit A. Pursuant to the intergovernmental cooperation agreement,

the Municipal Partners shall execute a task order to provide for the cost sharing allocation for CRW's Contribution required by this Agreement.

The parties, intending to be legally bound, agree as follows:

1. **Definitions.** Words used in this Agreement have the following meanings unless the context clearly indicates otherwise.

- a. "Agreement" when capitalized means this Contribution Agreement.
- b. "Combined Contribution" means the sum of CRW's and PennDOT's Contributions.
- c. "Commonwealth" means the Commonwealth of Pennsylvania.
- d. "CRW" means Capital Region Water.
- e. "CRW's Contribution" means the sum of one million dollars (\$1,000,000.00) and any additional funds that CRW elects to make available consistent with Section 3(a) below.
- f. "CRW's Pro Rata Share" means a percentage calculated as the quotient of CRW's Contribution and the Combined Contribution.
- g. "IFB" means an invitation for bids. When preceded by the definite article, IFB means the IFB for the Project.
- h. "Municipal Partner" or "Municipal Partners" means CRW, Lower Paxton Township and Susquehanna Township, individually or collectively.
- i. "MS4" means a municipal separate storm sewer system.
- j. "NPDES" means the National Pollutant Discharge Elimination System.

- k. "PennDOT" means the Commonwealth of Pennsylvania, acting through its Department of Transportation.
- l. "PennDOT's Contribution" means the sum of one million (\$1,000,000) dollars and any additional funds that PennDOT elects to make available consistent with Section 2(c) below.
- m. "PennDOT's Pro Rata Share" means a percentage calculated as the quotient of PennDOT's Contribution and the Combined Contribution.
- n. "PennDOT's PRP" means the PRP in the NPDES permit for the MS4 operated by PennDOT or in renewals of that permit.
- o. "Project" when capitalized means the project in the Watershed to reduce sediment pollution.
- p. "PRP" means a pollutant reduction plan..
- q. "Vendor" means the bidder who is issued a purchase order consistent with this Agreement.
- r. "Watershed" when capitalized means the Paxton Creek Watershed.

2. Responsibilities of PennDOT.

- a. **Issue the IFB.** PennDOT shall issue an IFB to construct the Project with terms and conditions consistent with the draft IFB attached and incorporated into this Agreement as Exhibit B.
- b. **Award.** PennDOT shall review and evaluate the bids for responsiveness consistent with the IFB and shall review the lowest responsive bidder's status on the Contractor Responsibility Program file. PennDOT shall issue a purchase order for the lowest responsible and responsive bidder, and post a notice of

award, consistent with the applicable Commonwealth procurement procedures.

- c. **Contribution.** PennDOT shall make one million dollars (\$1,000,000) available for the Project. PennDOT may elect, at its sole discretion, to make additional funds available for the Project.
- d. **Project Administration.** After a purchase order is issued to the Vendor, PennDOT shall require the Vendor to construct the Project in accordance with the IFB.
- e. **Reimbursement.** If PennDOT cancels the IFB without issuing a purchase order, then PennDOT shall reimburse 100% of CRW's Contribution within thirty days of the cancellation. If PennDOT determines after making the final payment to the Vendor that the total cost of the Project is less than Combined Contribution, then PennDOT shall reimburse CRW's Pro Rata Share of the difference within thirty days of making the final payment. If PennDOT determines after making the final payment that the total cost of the Project exceeds the Combined Contribution, then PennDOT shall send an invoice to CRW in the amount of CRW's Pro Rata Share of the difference.
- f. **Approvals by PennDOT.** For purposes of this Agreement, consent, concurrence or approval by PennDOT may be provided by the Deputy Secretary for Highway Administration or such other PennDOT employee as designated by the Deputy Secretary.

3. Responsibilities of the CRW.

- a. **Contribution.** Within 30 days of the effective date of the purchase order issued pursuant to the IFB, CRW shall make a payment to PennDOT in the amount of one million (\$1,000,000) dollars. CRW may elect, at its discretion, with approval from PennDOT to make additional funds available for the Project, in

which case CRW shall make an additional payment to PennDOT in the amount of the additional funds within 30 days of PennDOT's approval. The contribution of each Municipal Partner to CRW for CRW's Contribution shall be memorialized by a task order issued pursuant to Exhibit A.

- b. **Election.** At any time prior to the time when a purchase order is issued, CRW may notify PennDOT in writing that it elects to have PennDOT reject all bids.
- c. **Reimbursement.** Within 30 days of receiving an invoice from PennDOT pursuant to Section 3(a) above, CRW shall each make a payment to PennDOT in the amount of the invoice.
- d. **Payment Method.** All payments made in satisfaction of the requirements of this Section 3 shall be by corporate check or the like made payable to the "Commonwealth of Pennsylvania," with a notation referencing **Paxton Creek Municipal Partnership Agreement**, and shall be sent to:
 - PA Department of Transportation
 - Bureau of Fiscal Management
 - P.O. Box 62190
 - Harrisburg, PA 17106
- e. **Maintenance.** CRW shall be responsible for enforcing long term operation and maintenance of the improvements constructed by the Project by the responsible entity consistent with the IFB and shall be responsible for long term operation and maintenance of any improvements not maintained by a responsible entity.
- f. **Approvals by the Municipal Partners.** For purposes of this Agreement, consent, concurrence or approval by CRW may be provided by the

Chairperson of CRW's board or such other individual as designated by the Chairperson.

4. **Sediment Reduction Credit.** The parties will make every effort to obtain full credit for all of the sediment reduction achieved by the Project including change orders.

6. **Sufficient Funds.** CRW, by executing this Agreement, certifies that it has on hand funds to meet its contribution and reimbursement obligations.

7. **Indemnification.** Unless otherwise agreed to by the parties in writing, in addition to CRW's contribution and reimbursement obligations, CRW shall indemnify and (if requested) defend PennDOT, to the extent authorized by applicable law, its agents and employees from, and be solely responsible for, the payment and satisfaction of awards, judgments, claims, costs, and damages, including costs of appraisers and attorneys, witness fees, and other court costs and expenses resulting from the following:

- a. Changes required to be made to PennDOT's approved plans and specifications for the Project made necessary by requests by and for CRW.
- b. Time delays and extensions of time or termination of work requested or caused by CRW.
- c. Right-of-way and other property damages resulting from the acquisition or condemnation of the lands necessary for or the construction of the Project made necessary by requests by and for CRW. Right-of-way and other property damages, as used in this section, shall include consequential damages; damages arising from de facto or inverse takings; special damages for displacement; damages for the preemption, destruction, alteration, blocking and diversion of facilities; and other damages that may be claimed or awarded within the purview of the Eminent Domain Code of 1964, as amended, the State Highway Law of 1945, as amended, and eminent domain case law of the

Commonwealth of Pennsylvania; and claims awarded or entered against PennDOT or CRW.

- d. Relocation of utility facilities, including gas, water, railroad, sewer, electric, telecommunications or drainage facilities, in the Project area and made necessary by requests by and for CRW.
- e. Where made necessary by requests by and for CRW, preparation or revisions of environmental impact statements, negative declarations, environmental reports or other documents required by law and environmental litigation; public environmental hearings made necessary by the planning, design and environmental litigation; public environmental hearings made necessary by the planning, design, and construction of the Project and Supplemental Improvements; and increased planning, design, construction, utility relocation and right-of-way costs resulting therefrom.
- f. Unforeseen costs and expenses not included in the Project cost estimates, but which are directly related to or made necessary by requests by and for the CRW.
- g. Injuries to and damages received or sustained by people or property arising out of, resulting from, or connected with an act, omission, neglect, or misconduct of CRW and its contractors, their officers, agents and employees with respect to maintenance, operation and use of the completed Supplemental Improvements or otherwise with respect to this Agreement.

11. **Standard Provisions.** PennDOT shall require the Vendor to comply with the standard Commonwealth provisions consistent with the IFB.

12. **Right-to-Know Law.** The Pennsylvania Right-to-Know Law, 65 P.S. §§ 67.101 – 3104, applies to this Agreement. Therefore, this Agreement is subject to, and CRW shall

comply with, the clause entitled *Contract Provisions – Right to Know Law*, attached as Exhibit C. As used in this Agreement, the term Contractor refers to CRW.

13. **Termination.** The parties may terminate this Agreement for convenience or non-appropriation until the date when a purchase order is issued to the Vendor, but not after that date. Each party shall bear the costs it incurred during the time this Agreement was in effect. Nothing contained in the Agreement shall be deemed to be a waiver by PennDOT of its discretion to abandon or postpone the Project.

14. **Amendments and Modification.** No alterations or variations to this Agreement shall be valid unless made in writing and signed by the parties. Amendments to this Agreement shall be accomplished through a formal written document signed by the parties with the formality of the original Agreement, with exception of the notice section.

15. **Titles Not Controlling.** Titles of sections are for reference only, and shall not be used to construe the language in this Agreement.

16. **Severability.** The provisions of this Agreement shall be severable. If a phrase, clause, sentence or provision of this Agreement is declared to be contrary to the Constitution of Pennsylvania or of the United States or of the laws of the Commonwealth and its applicability to a government, agency, person, or circumstance is held invalid, the validity of the remainder of this Agreement and its applicability to a government, agency, person, or circumstance shall not be affected.

17. **No Waiver.** Either party may elect not to enforce its rights and remedies under this Agreement in the event of a breach by the other party. Failure by either party to enforce its rights and remedies shall not be construed as a waiver of a subsequent breach of the same or another term or condition of this Agreement.

18. **Independence of the Parties.** Nothing contained in this Agreement is intended or shall be construed to create or establish the relationship of partners between PennDOT and CRW, or as constituting any party as another party's representative or general agent.

20. **Assignment.** Neither party may assign this Agreement, either in whole or in part, without the other party's written consent.

21. **No Third-Party Beneficiary Rights.** This Agreement does not create or intend to confer rights in or on persons or entities not a party to this Agreement.

22. **Notice.** Notices and reports arising out of, or from, this Agreement shall be in writing and given to the parties at the addresses below, either by regular mail, facsimile, email, or delivery in person. A party may revise its contact information by providing written notice to the other party.

If to PennDOT:

PennDOT
Highway Administration Executive Office
8th Fl Commonwealth Keystone Building
Harrisburg, PA 17120

If to CRW:

Chairperson
Capital Region Water
Administrative Offices
212 Locust Street, Suite 500
Harrisburg, PA 17101-7107

23. **Force Majeure.** No party shall be liable for failure to perform if the failure to perform arises out of causes beyond the control and without the fault or negligence of the nonperforming party. Causes may include acts of God or the public enemy, fires, floods, epidemics, quarantine restrictions, freight embargoes and unusually severe

weather. This provision shall become effective only if the party failing to perform immediately notifies the other party of the extent and nature of the problem, limits delay in performance to that required by the event, and takes reasonable steps to minimize delays. This provision shall not be effective unless the failure to perform is beyond the control and without the fault or negligence of the nonperforming party.

24. Integration and Merger. This Agreement, when executed, approved, and delivered, shall constitute the final, complete, and exclusive Agreement between the parties containing the terms and conditions agreed on by the parties. Representations, understandings, promises and agreements pertaining to the subject matter of this Agreement made before or at the time this Agreement is executed are superseded by this Agreement unless specifically accepted by this Agreement. No conditions precedent to the performance of this Agreement exist, except as expressly set forth in this Agreement.

25. Choice of Law. This Agreement shall be construed and interpreted in accordance with the laws of the Commonwealth of Pennsylvania, without regard to conflicts of law principles.

26. Automated Clearing House Network Provisions. Submission of invoices for purposes of reimbursement or payment by PennDOT shall be made through the Pennsylvania Electronic Payment Program. The following provisions apply:

- a. PennDOT will make payments to CRW through Automated Clearing House (ACH). Within 10 days of the execution of this Agreement, CRW must submit or must have already submitted its ACH and electronic addenda information, if desired, on an ACH enrollment form obtained at: www.vendorregistration.state.pa.us/cvmupaper/Forms/ACH-EFTenrollmentform.pdf to the Commonwealth's Payable Service Center, Vendor Data Management Unit at 717-214-0140 (FAX) or by mail to the Office of Comptroller Operations, Bureau of Payable Services, Payable Service

Center, Vendor Data Management Unit, 555 Walnut Street – 9th Floor,
Harrisburg, PA 17101.

- b. CRW must submit a unique invoice number with each invoice submitted. The unique invoice number will be listed on the Commonwealth of Pennsylvania's ACH remittance advice to enable the Municipal Partners to properly apply the state agency's payment to the respective invoice or program.
- c. It is the responsibility of CRW to ensure that the ACH information contained in the Commonwealth's Central Vendor Master File is accurate and complete. Failure to maintain accurate and complete information may result in delays in payments.

26. **Offset.** CRW agrees that PennDOT may offset the amount of any state tax or Commonwealth liability of CRW or its affiliates and subsidiaries that is owed to the Commonwealth against any payments due CRW under this or any other contract with the Commonwealth.

27. **Counterparts.** This Agreement may be signed in counterparts, each of which shall be deemed to be an original and all of which together shall constitute one and the same instrument.

26. **Effective Date.** This Agreement shall not be effective until the necessary Commonwealth officials required by law have executed it. Following full execution, PennDOT shall insert the effective date at the top of page 1.

[The remainder of this page is intentionally left blank.]

The parties have executed this Agreement to be effective as of the date of the last signature affixed below.

ATTEST

Capital Region Water

Title: DATE

BY _____
Title: DATE

If a Corporation, a senior corporate officer must sign; if a sole proprietorship, only the owner must sign; if a partnership, only one partner need sign; if a limited partnership, only the general partner must sign. If a Municipality, Authority or other entity, please attach a resolution.

DO NOT WRITE BELOW THIS LINE--FOR COMMONWEALTH USE ONLY

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BY _____
Deputy Secretary DATE

APPROVED AS TO LEGALITY
AND FORM

FUNDS COMMITMENT DOC. NO. _____
CERTIFIED FUNDS AVAILABLE UNDER
SAP NO. _____
SAP COST CENTER _____
GL. ACCOUNT _____
AMOUNT _____

BY _____
for Chief Counsel Date

BY _____
Deputy General Counsel Date

BY _____
for Office of Comptroller Operations Date

BY _____
Deputy Attorney General Date

TASK ORDER FORM

In accordance with the INTERGOVERNMENTAL COOPERATION AGREEMENT FOR THE PREPARATION AND IMPLEMENTATION OF THE JOINT POLLUTION REDUCTION PLAN, made effective as of _____, 2020 written authorization by Capital Region Water is hereby given for performance of the below listed Services. Complete those blanks that are applicable. Enter “not applicable” or “N/A” where there is no insertion that needs to be made. Attach additional sheets or reference the RFP, Proposal, or Agreement as needed.

TITLE: Paxton Creek Watershed Sediment Reduction.

POINT OF CONTACT: Claire Maulhardt

TASK ORDER AUTHORIZATION NUMBER: 2020-01

SERVICES TO BE PERFORMED BY:

Pennsylvania Department of Transportation pursuant to IFB 6100050101 with First Pennsylvania Resource, L.L.C.

DESCRIPTION OF SERVICE:

See Attachment A (Executed Agreement between PennDOT and RES and the associated proposal) hereto.

SCHEDULE:

Allocated Task Order Costs (% of the Watershed – Table 7 of Joint PRP)	Capital Region Water (16%)	Lower Paxton Township (57%)	Susquehanna Township (27%)	Total Cost of Project
Paxton Creek Watershed Sediment Reduction Plan Contribution Costs	\$160,000.00	\$570,000.00	\$270,000.00	\$1,000,000.00
Total Costs	\$160,000.00	\$570,000.00	\$270,000.00	\$1,000,000.00

Payment is due to Capital Region Water by Lower Paxton Township and Susquehanna Township within thirty (30) days of receipt of invoice from Capital Region Water.

SEDIMENT REDUCTION CREDIT:

Total Annual Sediment Reduction Credit (Using Model My Watershed Method) = 793,500 lbs.

Total Annual Sediment Reduction Credit (Using Simplified Method) = 573,252 lbs.

ADDITIONAL COSTS:

N/A

REIMBURSABLES:

N/A

ATTEST:

CAPITAL REGION WATER

Secretary

By: _____
(Vice) Chairperson

(SEAL)

ATTEST:

SUSQUEHANNA TOWNSHIP

Secretary

By: _____
(Vice) President

(SEAL)

ATTEST:

LOWER PAXTON TOWNSHIP

Secretary

By: _____
(Vice) Chairperson

(SEAL)

**LOWER PAXTON TOWNSHIP/AUTHORITY
STORMWATER REPORT**

Client:	<u>LOWER PAXTON TOWNSHIP/AUTHORITY</u>	Date:	<u>MAY 26, 2020</u>
	<u>REPORT PERIOD 2/26/20 TO 5/26/20</u>	HRG Project Number:	<u>R004807.0435</u>
To:	<u>MR. BRADLEY GOTSHALL, LPT/A MANAGER</u>	From:	<u>JASON HINZ, P.E.</u>

A. MS4 – Technical Assistance:

1. HRG assigned tasks by LPT
 - A. Annual Reporting
 1. HRG completed 26 outfall screenings in May, 2020.
 2. HRG intends to conduct stormwater BMP inspections during May and June, 2020.
 - B. PennDOT Partnership Program Management
 1. The low bid submittal was received and accepted by the municipal partners (Capital Region Water, Susquehanna Township, and Lower Paxton Township). PennDOT is now reviewing the documents and will make the final decision on award.
2. HRG's understanding of LPT tasks being completed in-house
 - A. None at this time.

B. MS4 – Joint Pollutant Reduction Plan (CRW, LPT, ST) :

1. The PRP was approved by PADEP and the individual permit is now posted for public comment. It is anticipated that Lower Paxton will receive its final permit in the next 30-60 days.

C. Outstanding Proposals:

1. None.

D. Design Project Status:

1. *2019 Lower Paxton Township Drainage Improvements – Design; BC 2A-C {HRG #R000184.0531 PH 1}*
 - ✓ Design as originally scoped is complete and the bid opening for the project occurred on May 24, 2019. The Board of Supervisors awarded the project to Doli Construction Corp. on August 7, 2019 in an amount of \$1,642,652 for the storm sewer portion of the project.
 - ✓ Additional information on the condition of storm sewer infrastructure in the Rockford Heights has been obtained by LPTA and reviewed by HRG. HRG provided recommendations via an email dated June 6, 2019 on necessary repair work. The system has been investigated for the possible solution of cured in place lining, which appears to be a viable option once point repairs are made to the system. HRG provided an exhibit to the Contractor, which shows the extent of spot repairs to be completed in this area.
 - ✓ LPTA also expressed interest in addressing a ponding/icing issue near the intersection of Wenrich Street/Blue Ridge Avenue. HRG has investigated and designed a solution. Additional research and base mapping was performed to depict the public right of for Blue Ridge Avenue and Wenrich Street in this area. A Highway Occupancy Permit (HOP) application was developed and submitted to PennDOT. The HOP was issued by PennDOT on March 6, 2020, and HRG distributed to the Contractor along with the approved plan to incorporate into the work.
2. *2019 Lower Paxton Township Drainage Improvements – Design; Johnson Street {HRG #R000184.0531 PH 6}*
 - ✓ HRG is in the process of developing construction drawings for the installation of drainage inlets and piping to remediate a ponding issue near the Hazle Street – Johnson Street intersection.

- ✓ In the Spring of 2020, it was decided by LPT/A staff and HRG that an alternate solution would be developed and incorporated into the BC-7/8 project opposed to commencing with a standalone project at this location.
3. *Stonebridge Apartments Stream Restoration - {HRG #R000184.0533}*
- ✓ Final design efforts are progressing with the pedestrian bridge replacements and riparian planting layout.
 - ✓ The grading plan and hydraulic model have been finalized.
 - ✓ These next steps for the project include presenting easement exhibits to the property owner and submission of a General Permit Application to PADEP once the easement is acquired.
 - ✓ The current construction cost estimate for the project is approximately \$740K.
4. *BC 7-8 Drainage Improvements – Design; {HRG #R000184.0539}*
- ✓ HRG is in the process of performing preliminary hydrologic and hydraulic calculations associated with the systems in the project area and generating proposed system alignment and layout.
 - ✓ Subsurface Utility Engineering (SUE) has been completed by a sub-consultant of HRG. HRG is currently using the information obtained from the SUE to modify the proposed storm sewer layout to avoid utility conflicts to the greatest extent practical. Once those efforts are complete, HRG will coordinate with the various utility suppliers to resolve any unavoidable utility conflicts identified by the SUE.
 - ✓ Preparation of easement exhibits is underway and permission to contact residents regarding the need for an easement on their property is being requested from the Authority Board.
 - ✓ A wetlands investigation was performed in the vicinity of all storm sewer locations proposed to be replaced with the project. The investigation identified wetlands near the locations of four (4) outfalls. HRG will be surveying the limits of wetlands and determining any permitting implications. Should any permitting be necessary, HRG will develop applications and submit to the appropriate regulatory agency.
 - ✓ Field survey efforts are scheduled to commence to obtain information related to drainage facilities that were not originally located with the initial survey.
5. *2020 Lower Paxton Township Drainage Improvements – Design; {HRG #R000184.0544 PHs 1&2}*
- ✓ On behalf of the Township, HRG developed and submitted a PA Small Water and Sewer Program grant application to the PA Department of Community and Economic Development (DCED) Commonwealth Financing Authority (CFA) Programs Division on December 13, 2019. The application was in support of the design and construction of several basin retrofit projects located throughout various Township parks. The total estimated project cost used in the application was \$498,950 (\$424,120 – grant request; \$74,830 – required Township match).
 - ✓ On behalf of the Township, HRG developed and submitted a H2O PA Water Supply, Sanitary Sewer, and Stormwater Projects Program grant application to the PA DCED CFA Programs Division on December 13, 2019. The application was in support of the construction of drainage improvements in the Springford Manor development and areas surrounding Byron Avenue. The total estimated project cost used in the application was \$1,948,136.50 (\$1,298,757 – grant request; \$649,379.50 – required Township match).
 - ✓ Originally, it is anticipated that funding decisions and an announcement on allocation of funds will be made by PA DCED around May 2020. However, due to the Coronavirus situation, CFA has indicated that award decisions will be delayed later in 2020.
6. *2020 Lower Paxton Township Drainage Improvements – Design; {HRG #R000184.0544 PH 3 Springford Manor}*
- ✓ On December 17, 2019, the Township executed the Confirmation of Assignment (COA) authorizing HRG to commence design efforts on the drainage improvements for the Springford Manor development and areas surrounding Byron Avenue.
 - ✓ Field survey has been completed and base mapping prepared.

- ✓ HRG is in the process of performing preliminary hydrologic and hydraulic calculations associated with the systems in the project area and generating proposed system alignment and layout.
 - ✓ Preparation of easement exhibits is underway and permission to contact residents regarding the need for an easement on their property is being requested from the Authority Board.
 - ✓ A wetlands investigation was performed in the vicinity of all storm sewer locations proposed to be replaced with the project. The investigation concluded that no wetlands exist in the project area.
7. *2020 Lower Paxton Township Drainage Improvements – Design; {HRG #R000184.0544 PH 4 Byron Avenue Area}*
- ✓ On December 17, 2019, the Township executed the Confirmation of Assignment (COA) authorizing HRG to commence design efforts on the drainage improvements for the Springford Manor development and areas surrounding Byron Avenue.
 - ✓ Field survey has been completed and base mapping prepared.
 - ✓ HRG is in the process of performing preliminary hydrologic and hydraulic calculations associated with the systems in the project area and generating proposed system alignment and layout.
 - ✓ Preparation of easement exhibits is underway and permission to contact residents regarding the need for an easement on their property is being requested from the Authority Board.
 - ✓ A wetlands investigation was performed in the vicinity of all storm sewer locations proposed to be replaced with the project. The investigation concluded that no wetlands exist in the project area.

E. Construction Project Status:

1. *2018 Lower Paxton Township Drainage Improvements {HRG #R000184.0530}*
- ✓ Construction is complete and final payment to the Contractor was approved on February 5, 2019. Contract closeout documents were delivered to the Township.
 - ✓ A project walk-through with staff from the Township, HRG, and Contractor was performed on May 6, 2019 to identify any items needing attention in accordance with the contract requirements associated with the one-year correction period. A list was generated, and all of the items were completed.
 - ✓ Likewise, during the walk-through on May 6, 2019, the property owner at 100 Koch Lane made HRG and Township staff aware of wet conditions in her yard that appear to be an unintended consequence of the installed drainage improvements. At the direction of Township staff, HRG developed a construction plan to mitigate the issue and provided it to Township staff on June 20, 2019 for implementation.
2. *2019 Lower Paxton Township Drainage Improvements {HRG #R000184.0535}*
- ✓ The Forest Hills and Goose Valley Road – Colonial Club Drive project areas were inspected by the Contractor (Greenland Construction, Inc.), HRG, and LPT staff on November 5, 2019, and it was determined that the work was substantially complete. A punchlist was developed and the Certificate of Substantial Completion was issued following the inspection.
 - ✓ Final acceptance and payment will be deferred until Spring 2020 due to vegetation in the Goose Valley Rd. – Colonial Club Dr. area needing to be established. The Contractor has been in communication with HRG about completing these items in the coming weeks.
3. *BC 2A-C, 5B Construction Phase Services {HRG #R000184.0537}*
- ✓ HRG has been tasked by LPTA to provide construction contract administration and construction observation for work related to storm sewer installation and paving operations for the BC 2A-C, 5B project.
 - ✓ Bids were opened on May 24, 2019 and are currently being reviewed by LPTA, HRG, and GHD with a recommendation of award expected to be provided ahead of the June 4, 2019 Board of Supervisors Meeting. The apparent low bidder was Doli Construction Corp. with a

- bid in the amount of \$16,933,333.25. The total project estimate was \$19M, and the storm sewer portion of the estimate was \$4.1M.
- ✓ The Board of Supervisors awarded the project to Doli Construction Corp. at their August 7, 2019 meeting.
- ✓ A pre-construction meeting was held on September 12, 2019.
- ✓ Drainage infrastructure work has been completed along Willow Spring Road and commended on Nassau Road. The Contractor has been coordinating with various utility suppliers on the need for relocations to install the drainage infrastructure and is currently awaiting their action to proceed with any further storm sewer work in this area.
- ✓ Contractual substantial completion – August 31, 2021; final completion – October 31, 2021

4. *LPTA Storage Facility Construction {HRG #R004807.0438}*

- ✓ Agreements, bonds, and insurance documents were obtained from all of the Contractors listed in the table above and the agreements were executed by the Township on January 16, 2020. Notice to proceed was issued on January 20, 2020 to the following Contractors:

Contract	Bidder
2019-1(B) General Construction	Ebersole Excavating, Inc.
Alternate Bid: 2019-1(B) General Construction	Ebersole Excavating, Inc.
2019-1(E) Electrical	A.N. Lynch Co., Inc.
2019-1(M) Heating, Ventilation, and Air Conditioning	CHM Contracting
2019-1(P) Plumbing	Garden Spot Mechanical, Inc.

- ✓ A pre-construction meeting with staff from HRG, LPTA, and each Contractor was held on February 6, 2020.
- ✓ The substantial completion date for the project is April 17, 2020 with a final completion date of May 1, 2020. At the pre-construction meeting, Ebersole Excavating indicated that a project completion in mid-May is more realistic based on current projections. HRG nor LPTA staff took exception to this timeframe as long as the construction duration appeared to be reasonable on a forthcoming schedule.
- ✓ Erection of the building has been on-going and is nearing completion. Gas, water, electric, and communication service lines have been fed to the building from the existing LPTA facility. Field Order #1 was issued to shift the location of the utility trench to better align with the feed locations from the existing LPTA facility.

F. Miscellaneous Items:

1. *Coordination on Known Private Property Related Drainage Issues {HRG #R004807.0436 PH 2}*
 - ✓ Lakeside Marine – On October 18, 2019, HRG, LPT, and LPTA staff visited Lakeside Marine at 21 Thornwood Road at the request of the property owner. The property owner explained that the large man-made lake has experienced significant deposition of sediment from stormwater runoff associated with upstream properties. The resident contacted LPTA staff again on January 16, 2020 to follow-up on the issue. HRG subsequently reached out to PADEP to determine if there would be a benefit to the Township related to sediment reduction requirements for Paxton Creek and potential permitting requirements. Communication with PADEP, HRG, and Township staff is on-going.
 - ✓ 4317 Winthrop Drive – In March 2020, Township staff was contacted by the property owner regarding ground settlement above a drainage pipe in the vicinity of the public sidewalk at the property. As requested, HRG developed an easement exhibit for staff’s use in accessing the property to remedy the issue. It is our understanding that staff has performed the necessary coordination with the property owner and completed the repairs.

2. *Stormwater Authority Budget & Credit Policy Review (HRG #R000184.0545)*
 - ✓ Meetings with HRG and LPTA staff occurred in April and May 2020 to discuss various credit policy items. Accordingly, a draft credit policy was prepared and will be presented to the Board by the Sewer Director and HRG at the May Board meeting.

3. *Dauphin County Regional Stormwater Feasibility Study*
 - ✓ A Tri-County Regional Planning Commission (TCRPC) outreach meeting for municipal staff was held on March 3, 2020 at 1:30pm to provide an update on the study progress and poll participants on desired long-term and short-term programming options. Based on the feedback received, HRG is finalizing a white paper that will outline service offerings, roles of municipalities and various County departments, costs, and savings associated with participation on the program.

4. *COVID-19 Relief Funding*
 - ✓ HRG has been closely monitoring the actions of state and federal legislature as they relate to funding opportunities that may become available to municipalities and authorities in an attempt to revitalize local economies in light of the COVID-19 situation. HRG prepared documents summarizing our knowledge of forecasted stimulus funding and provided to Township and Authority staff for their reference and planning. It is recommended that staff in concert with the Board identify any capital improvements that are needed and coordinate with HRG to ensure that any desired projects are planned to strategically take advantage of the funding.

5. Stormwater Bond Drawdown Status

Stormwater Management Bond Issue Status Summary					
Expense Status		Estimated Drawdown Schedule			
Month/Year	Current Amount	Item Description	2020	2021	2022
Oct. 2019	\$ 10,256,100.83	2019 LPT Drainage Improvements (Construction Only)	Expensed in full		
Nov. 2019	\$ 9,758,332.14	BC 2A-C, 5B Storm Sewer Construction (No Paving)	In Progress	In Progress	Expensed in full
Dec. 2019	\$ 9,428,622.48	BC 2A-C, 5B Paving Related to Storm Sewer	In Progress	In Progress	Expensed in full
Jan. 2020	\$ 9,129,679.11	TMDL Projects	In Progress	In Progress	Under Contract
Feb. 2020	\$ 9,119,729.91	Capital replacement of existing systems that are potential MS4 violations	In Progress	Under Contract	Under Contract
Mar. 2020	\$ 9,108,863.92	TMDL & MS4 Compliance	In Progress	In Progress	Expensed in full
Apr. 2020	\$ 9,037,388.93	2019 LPT Drainage CA/CO	Expensed in full		
May 2020	\$ 8,972,269.57	BC 2A-C, 5B CA/CO	In Progress	In Progress	Expensed in full
		GIS MS4 Mapping	In Progress	In Progress	Expensed in full
		BC 7 & 8 (Design Only)	In Progress	In Progress	Expensed in full
		TV Rig (32% of total cost)	Expensed in full		
		Pole Bldg. (32% of total cost)	Expensed in full		
		10% Contingency	In Progress	In Progress	Expensed in full

Notes & Definitions:
 1. *In Progress* - design and/or construction are underway and have been previously authorized
 2. *Under Contract* - executed contract with a future completion date established to be in place
 3. *Expensed in full* - all efforts resulting in expenditures associated with item to be complete during term

Attachments – None

Signed by: Jason R. Hinz, P.E.

Date: 5/26/20

Copies: Weaver-LPTA Allen-LPT Hinz-HRG Kenworthy-HRG Bonanno-HRG Kline - LPT File